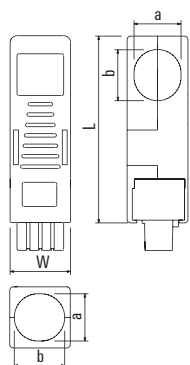


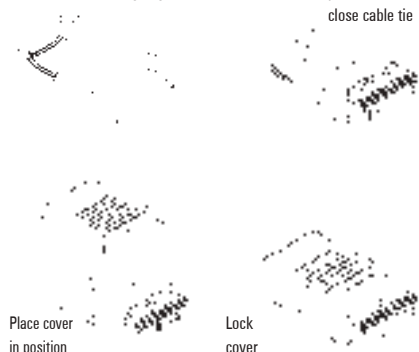
**B2L 3.50 AH**

**Cover**



Insert cable tie in the desired outgoing direction

Place wired socket connector in position and close cable tie

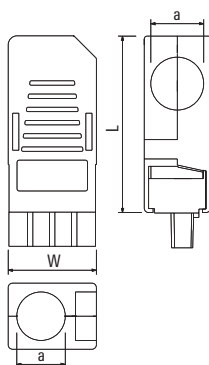


**Ordering data**

Pole	W (mm)	L (mm)	a (mm)	b (mm)	Qty.	Order No.
6	10,50	39,80	9,55	8,00	10	1781560000
8	14,00	39,80	9,55	8,00	10	1781570000
10	17,50	39,80	13,60	9,00	10	1781580000
12	21,00	39,80	13,60	9,00	10	1781590000
14	24,50	39,80	13,60	20,00	10	1781600000
16	28,00	39,80	13,60	20,00	10	1781610000
18	31,50	53,80	13,60	20,00	10	1781620000
20	35,00	53,80	13,60	20,00	10	1781630000
22	38,50	53,80	13,60	20,00	10	1781640000
24	42,00	53,80	13,60	20,00	10	1781650000
26	45,50	53,80	13,60	20,00	10	1781660000

**BL 3.50 AH**

**Cover**

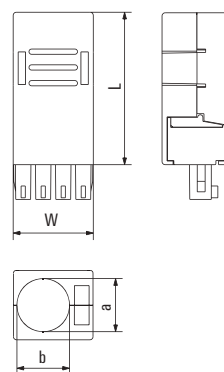


**Ordering data**

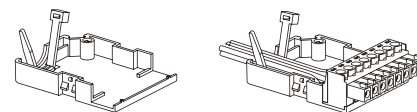
Pole	W (mm)	L (mm)	a (mm)	b (mm)	Qty.	Order No.
2	-	-	-	-	-	-
3	10,50	30,00	8,50	-	10	1745580000
4	14,00	30,00	8,50	-	10	1745590000
5	17,50	30,00	8,50	-	10	1745600000
6	21,00	30,00	8,50	-	10	1745610000
7	24,50	40,00	11,00	-	10	1745620000
8	28,00	40,00	11,00	-	10	1745630000
9	31,50	40,00	11,00	-	10	1745640000
10	35,00	40,00	11,00	-	10	1745650000
11	38,50	40,00	11,00	-	10	1745660000
12	42,00	40,00	11,00	-	10	1745670000

**BCZ 3.81 AH**

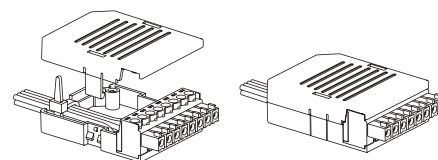
**Cover**



- 1 Insert cable tie in the desired outgoing direction.
- 2 Place wired socket connector in position and close cable tie.



- 3 Place cover in position
- 4 Lock cover



**Ordering data**

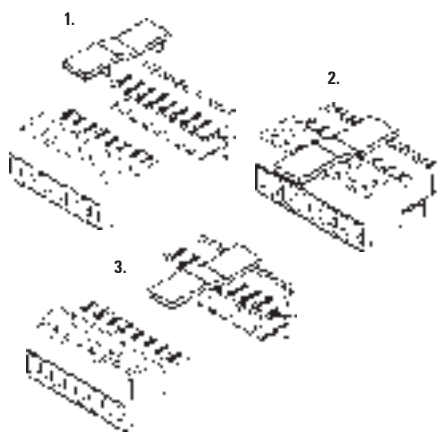
Pole	W (mm)	L (mm)	a (mm)	b (mm)	Qty.	Order No.
2	-	-	-	-	-	-
3	11,43	29	10	10	10	1005280000
4	15,24	29	10	10	10	1005290000
5	19,05	29	10	10	10	1005300000
6	22,86	29	10	10	10	1005310000
7	26,67	39	10	12,5	10	1005320000
8	30,48	39	10	12,5	10	1005330000
9	34,29	39	10	12,5	10	1005340000
10	38,1	39	10	13	10	1005350000
11	41,91	39	10	13,8	10	1005360000
12	45,72	39	10	14,6	10	1005370000

**BL/SL 3.50 VR**

Lock



- Simple, screw-less, vibration-proof mechanism for all single-row male connectors in conjunction with the standard 180° screw terminal socket connector BL 3.5.
- 2 VR locks are recommended for plug-in connectors with more than 8 poles.



**Ordering data**

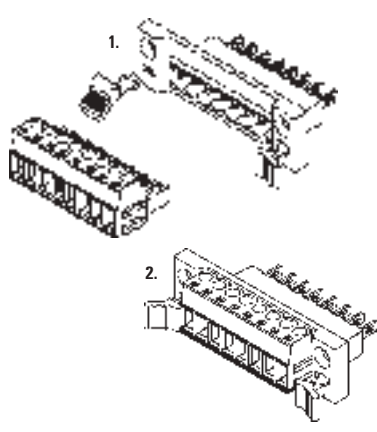
Colour		Orange	Black
No. of poles	Qty.	Order No.	Order No.
BL/SL 3.50 VR	100	1669310000	1669300000

**SLDF VR**

Lock



- For vibration-proof plug-in connections
- Socket must be B-Version with dovetail



**Ordering data**

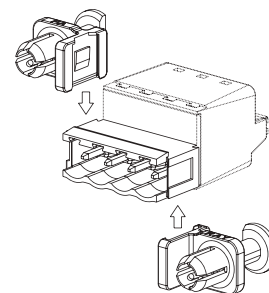
Colour		Black
Type	Qty.	Order No.
SLDF VR	100	1599120000

**BBDF**

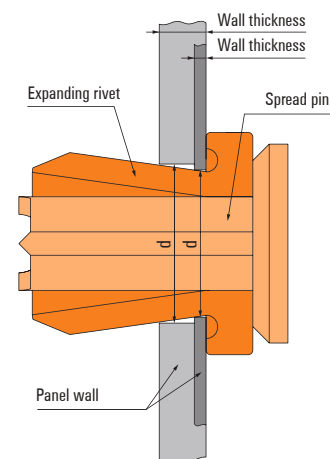
for universal feed-through-connection



Assembly Instruction



view of BBDF inside the panel



**Ordering data**

Colour		Orange	Black
Type	Width (mm)	Qty.	Order No.
BBDF	9,5	100	1307570000
			1307580000



## Fixing blocks

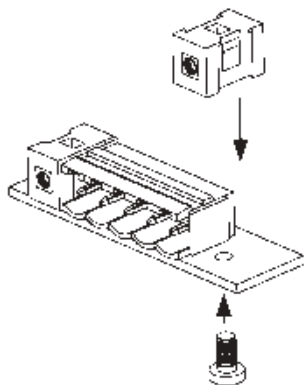
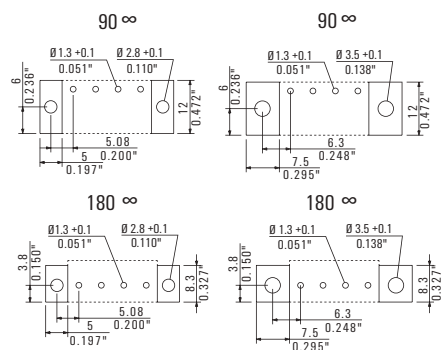
### SLA BB1R SLA BB11R

Mounting blocks for headers, in 5.0x-mm pitch

#### SLA BB11R



#### SLA BB1R



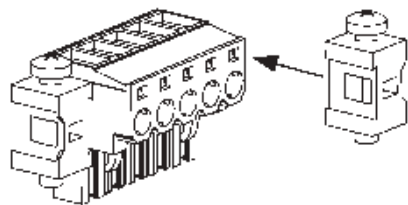
### SLA BB2R SLA BB12R

Mounting blocks for plugs, in 5.0x-mm pitch

#### SLA BB12R

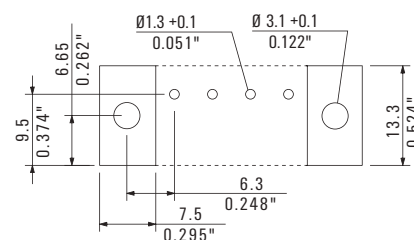


#### SLA BB2R



### SL 135 BB15R

Mounting blocks for SL 135 male header



### Ordering data

Colour	Orange		Black	
Type	Width (mm)	Qty.	Order No.	Order No.
SLA BB1R	7,5	20	1723430000	1723480000
SLA BB11R	5,0	100	1604120000	1692340000

### Ordering data

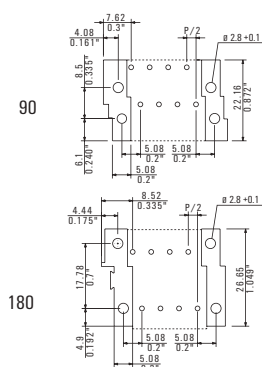
Colour	Orange		Black	
Type	Width (mm)	Qty.	Order No.	Order No.
SLA BB2R	7,5	20	1723440000	1723490000
SLA BB12R	5,0	100	1593450000	1626880000

### Ordering data

Colour	Orange		Black	
Type	Width (mm)	Qty.	Order No.	Order No.
SL135 BB15R	7,5	20	1606450000	1636370000

**SLA BB14**

**Mounting blocks for SLD 5.08 headers**



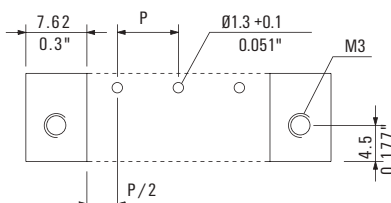
- Provides additional mechanical support for rows of male connectors on the PCB
- Also enables vibration-proof connections for the matching socket connectors.
- BB12 fixing blocks or an integral screw flange are required for the socket.
- Caution: Only to be used with SLD 5.08 90 / SLD 5.08 180.

**Ordering data**

Colour	Orange	Black
Type	Order No.	Order No.
SLA BB14	5,0	20
	1594200000	1774460000

**LPBB**

**PCB fixing block**



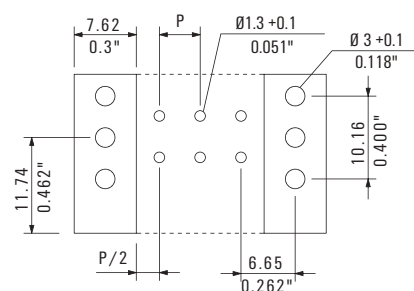
- Provides additional mechanical support for terminals LP, LP1N and LP 1H.
  - Can also be supplied with captive nut (LPBB MU).
- Ordering

**Ordering data**

Colour	Orange	Black	
Type	Qty.	Order No.	Order No.
LPBB	100	1747540000	
LPBB MU	100	1747530000	

**TOP 1.5 BB**

**Fixing block for TOP 1.5 GS terminals**



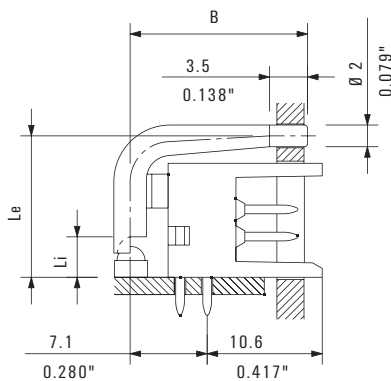
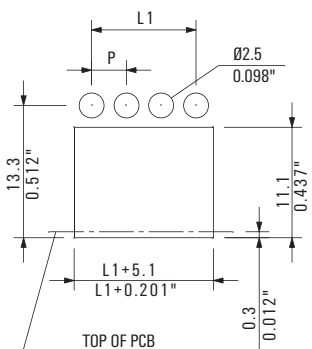
- Provides additional mechanical support for TOP 1.5 GS terminals.
- Supplied complete with 2.9 x 19 mm self-tapping screw.

**Ordering data**

Colour	Orange	Black	
Type	Qty.	Order No.	Order No.
TOP1.5 BB	20	1539860000	

**S2L FLA**

Light guide

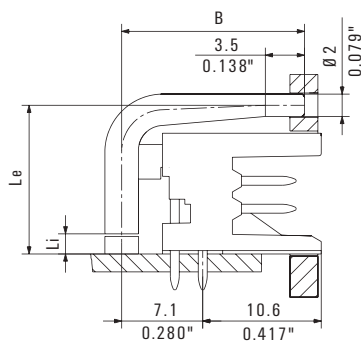
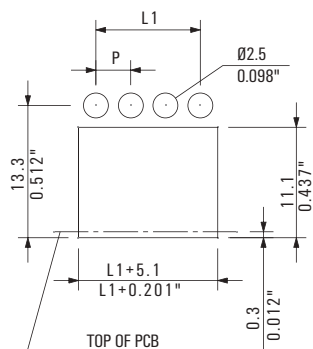


**Ordering data**

Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
10	3,70	13,00	16,35	100	<b>1699580000</b>

**S2L-SMT FLA**

Light guide

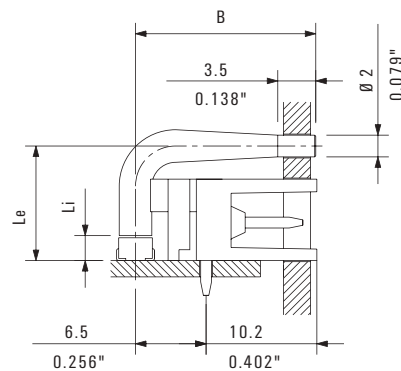
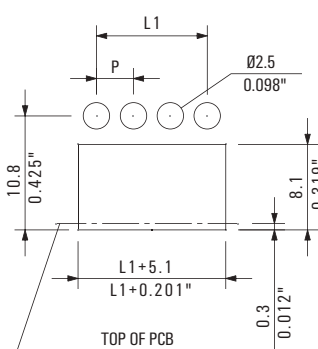


**Ordering data**

Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
10	1,80	13,30	16,35	50	<b>1814590000</b>

**SL 3.50 FLA**

Light guide

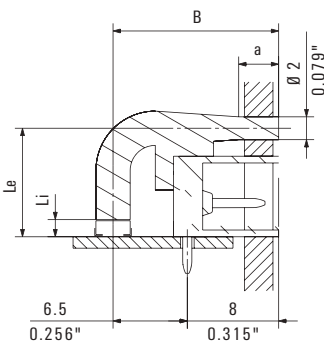
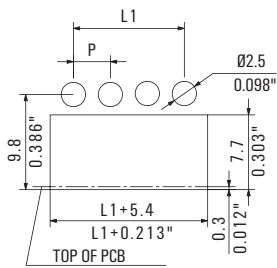


**Ordering data**

Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
8	1,50	10,55	16,60	50	<b>1597510000</b>
8	2,30	10,55	16,60	50	<b>1597520000</b>
8	4,00	10,55	16,60	50	<b>1597530000</b>
8	1,50	10,55	14,85	50	<b>1597630000</b>
8	2,30	10,55	14,85	50	<b>1597640000</b>
8	4,00	10,55	14,85	50	<b>1597650000</b>

SC 3.81 FLA

Light guide

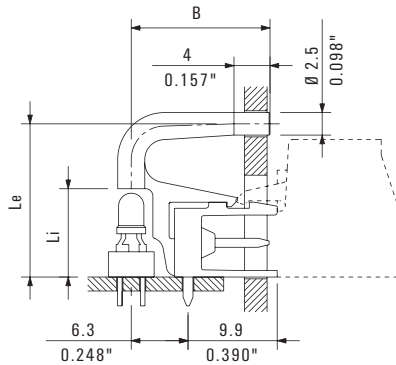
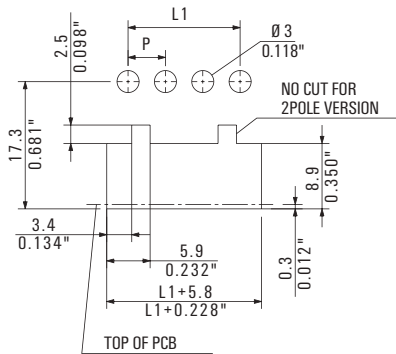


Ordering data

Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
8	1,5	9,50	14,25	50	1979730000
8	2,3	9,50	14,25	50	1979750000
8	1,5	9,50	16,00	50	1979720000
8	2,3	9,50	16,00	50	1979740000

SL 5.08 FLA

Light guide



Ordering data

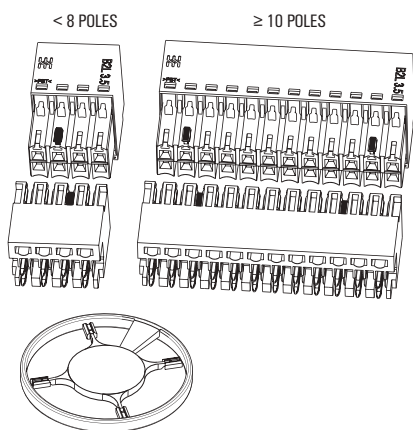
Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
1	1,50	17,00	15,40	100	1580100000
1	2,30	17,00	15,40	100	1636670000
1	3,80	17,00	15,40	100	1580110000
1	9,00	17,00	15,40	100	1580120000
24	2,30	17,00	15,40	10	1636680000

**B2L/S2L KO - B2CF/S2C KO**

Coding element



- For coding plug-in connectors to prevent errors during installation.
- Suitable for plug and socket connectors.
- The coding does not block any poles.
- For reliable coding, we recommend at least 2 polarising pins per connector for 10-way and above



Ordering data

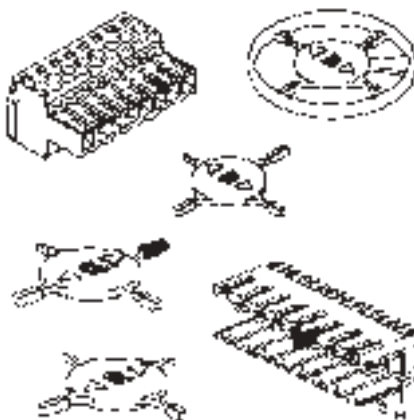
Colour		Orange	Black
Type	Qty.	Order No.	Order No.
B2L/S2L KO	100	1849730000	1849740000

**BL/SL 3.50 KO**

Coding element



- For coding plug-in connectors to prevent errors during installation.
- Suitable for plug and socket connectors.
- The coding does not block any poles.
- A coding star includes 2 coding elements of different sizes. The larger of the two is used on the male connector.



Ordering data

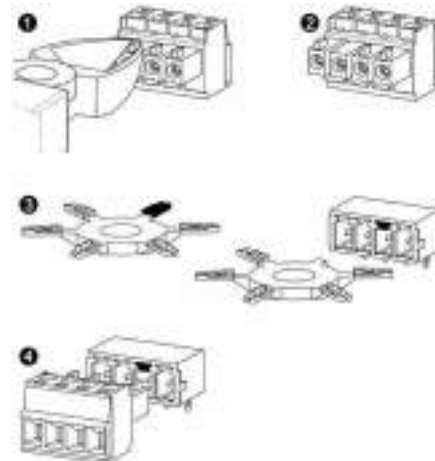
Colour		Orange	Black
Type	Qty.	Order No.	Order No.
BL/SL 3.5 KO	100	1693430000	1610100000

**SC-SMT 3.81 KO**

Coding element



- For coding connectors in order to prevent mistakes during installation
- Only for male headers (SC..3.81..).
- Female headers (BCZ 3.81, BCF 3.81 and BCL-SMT 3.81) are coded using diagonal-cutting pliers. The coding does not occupy a pole.



Ordering data

Colour		Grey
Type	Qty.	Order No.
SC-SMT 3.81 KO WT BX	100	2467670000

1 unit = 6 coding elements

**BLZ/SL KO****Coding element**

- For coding plug-in connectors to prevent errors during installation.
- Suitable for plug and socket connectors.
- The coding does not block any poles.
- Coding element for the BL/SL 5.00 and BL/SL 5.08 series

**RSV 1.6 KO****Coding element**

- For coding plug-in connectors to prevent errors during installation.
- Suitable for plug and socket connectors.
- The coding blocks individual poles.

**SLAT****Dividing element**

- Subdivides male connectors into distinct segments.
- Prevents errors during installation.

**Ordering data**

Colour		Orange	Black
Type	Qty.	Order No.	Order No.
BLZ/SL KO	100	1573010000	1545710000

**Ordering data**

Colour		Black
Type	Qty.	Order No.
RSV 1.6 KO	50	1567430000

**Ordering data**

Colour		Orange	Black
Type	Qty.	Order No.	Order No.
SLAT	100	1598300000	1770240000

**Test plug****PS 2.0 MC****Test plug**

- For conductors up to 0.75 mm<sup>2</sup> (AWG 18).
- Gold-plated lantern-type contact.
- Conductor must be soldered to contact in test plug.

**Ordering data**

Type	Conductor size	Qty.	Order No.
PS 2.0 MC	≤ 0,75 mm <sup>2</sup>	20	031000000

**KSW 4 / KSW 2.5**

**Marking strips**



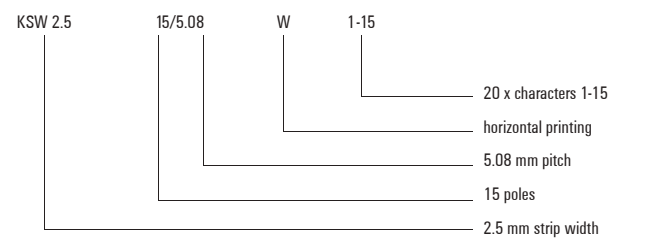
KSW marking strips are suitable for labelling multi-pole PCB terminals and connectors. The white, self-adhesive strips are made from a non-PVC, environmentally friendly material. These marking strips provide individual printing, i.e. are suitable for every pitch. Available in two widths: 2.5 and 4.0 mm.

**Technical data**

Material data	
Material	polyester with white surface
Adhesive	acrylic base
Temperature range	-40 °C to +150 °C
Min. bonding temperature	+4 °C
Flammability	self-extinguishing after 15 s

No. of marking strips per sheet
up to 20 poles = 20 strips per sheet
* more than 20 poles = 15 strips per sheet

Ordering example
Order No. 1630060001



**Printed strips**

KSW 4	Pitch			
	3.50 mm	5.00 mm	5.08 mm	7.62 mm
Char.	1629910000	1629910000	1630200001	1629930000
1-8	-	-	-	1629930000
1-12	-	-	-	-
1-16	1630150001	1629930000	1630160001	-
1-24*	1629930000	1700710001	1630180001	-

KSW 2.5	Pitch			
	3.50 mm	5.00 mm	5.08 mm	7.62 mm
Char.	-	1629900000	1630100001	-
1-8	-	1629900000	1630100001	-
1-12	-	-	-	-
1-16	1629920000	1629920000	1713970001	-
1-24*	1652250001	1629940000	1629940000	-

**Blank strips**

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629910000	1629930000	1629950000
KSW 2.5	1629900000	1629920000	1629940000

**Custom printing to specification**

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629910000	1629930000	1629950000
KSW 2.5	1629900000	1629920000	1629940000

**Direct printing**



We can also print directly on your plug and socket connectors to your specification. Please ask for details.



## Crimping tools

### HTF 28 HTF 63

#### Crimping tools



- Precision crimping tool with ratchet for 2.80 and 6.30 mm spade connections with open or rolled terminals
- HTF 28 for flexible conductors 0.10-1.00 mm<sup>2</sup> (AWG 26-16)
- HTF 63 for flexible conductors 0.50-2.50 mm<sup>2</sup> (AWG 20-14)

#### Ordering data

Type	Crimp size mm/inch	Cross-section mm <sup>2</sup> /AWG	Order No.
HTF 28	2,8/0,110	0,14-1,5/26-16	9013090000
HTF 63	6,3/0,250	0,50-2,5/20-14	9013400000

### HTF DFF

#### Crimping tools



- Precision crimping tool with ratchet for the Weidmüller DFFC crimp contacts of BLC and BLAC socket connectors
- 0.22-0.35 mm<sup>2</sup> (AWG 24-22)
- 0.50-1.00 mm<sup>2</sup> (AWG 20-17)
- 1.50-2.50 mm<sup>2</sup> (AWG 16-12)

#### Ordering data

Type	Cross-section mm <sup>2</sup> /AWG	Order No.
HTF DFF	0,22-2,5/24-12	9014140000

### HTF RSV 12 HTF RSV 16

#### Crimping tools



- Precision crimping tool with ratchet for the Weidmüller CB and CS crimp contacts of RSV 1.6 plug-in connectors
- RSV 16 = 0.14 - 1.50 mm<sup>2</sup> (AWG 26-16)
- RSV 12 = 1.50 - 2.50 mm<sup>2</sup> (AWG 14-12)

#### Ordering data

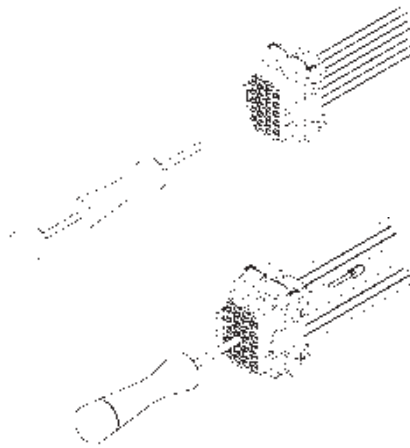
Type	Cross-section mm <sup>2</sup> /AWG	Order No.
HTF RSV 16	0,14-1,5/26-16	9013560000
HTF RSV 12	1,50-2,5/14-12	9013550000

**DFFC EW2**

Disengaging tool

**DW RSV**

Disengaging tool

**Ordering data**

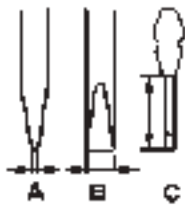
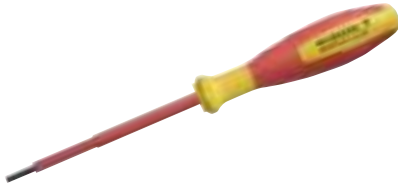
Type	Qty.	Order No.
DFFC EW2	1	1803790000

**Ordering data**

Type	Qty.	Order No.
DW RSV 1.6	1	9004530000

**SDI**

**VDE-insulated slotted screwdriver**



- VDE-insulated slotted screwdriver, SDI**
- SDI DIN 7437, ISO 2380/2
  - Drive output acc. to DIN EN ISO/IEC 60900 and DIN ISO 2380

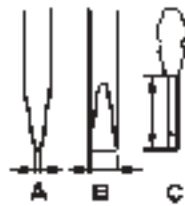


**Ordering data**

Type	Dims. (mm)	A	B	C	Order No.
SDI	0,4	2,5	75		2749790000
SDI	0,5	3,0	100		2749800000
SDI	0,6	3,5	100		2749810000
SDI	0,8	4,0	100		2749820000
SDI	1,0	4,5	125		2749830000
SDI	1,0	5,5	125		2749850000
SDI	1,2	6,5	150		2749860000
SDI	1,6	8,0	175		2749870000

**SD**

**Slotted screwdriver with round blade**



- Slotted screwdriver with round blade, SD**
- SD DIN 5265, DIN ISO 2380
  - Drive output acc. to DIN 5264, DIN ISO 2380/1
  - ChromTop tip



**Ordering data**

Type	Dims. (mm)	A	B	C	Order No.
SD	0,4	2,5	75		2749320000
SD	0,5	3,0	80		2749330000
SD	0,6	3,5	100		2749340000
SD	0,8	4,0	100		2749360000
SD	0,8	4,5	125		2749370000
SD	1,0	5,5	150		2749380000
SD	1,2	6,5	150		2749390000

**SDK PH/PZ**

**Crosshead screwdriver**



- Crosshead screwdriver PH (Philips)**
- SDK PH DIN 5262, DIN ISO 8764-PH
  - Drive output acc. to DIN ISO 8764-PH
  - ChromTop tip



- Crosshead screwdriver PZ (Pozidrive)**
- SDK PZ DIN 5262, DIN ISO 8764-PZ
  - Drive output acc. to DIN ISO 8764-PZ
  - Chrome top tip



**Ordering data PH**

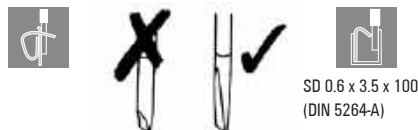
Type	Dims. (mm)	A	B	C	Order No.
SDK PH0	0			60	2749400000
SDK PH1	1			80	2749410000
SDK PH2	2			100	2749420000
SDK PH3	3			150	2749430000

**Ordering data PZ**

Type	Dims. (mm)	A	B	C	Order No.
SDK PZ1	1			80	2749440000
SDK PZ2	2			100	2749450000
SDK PZ3	3			150	2749460000

**Tension clamp terminal tool**

**Tool for PCB terminals with tension clamp connection**



You do not need any special tool to connect or disconnect our tension clamp connection.  
The opening is designed to accommodate a standard 0.6 x 3.5 x 100 screwdriver 9008330000 to DIN 5264-A (with flat blade).

# OMNIMATE® Power PCB terminals

**OMNIMATE® Power  
PCB terminals**

Clamping yoke screw connection

Explanation	0.2
Quick selection	0.12
Product selection	0.16

PUSH IN-spring connection

Explanation	0.6
Quick selection	0.14
Product selection	0.26

# OMNIMATE® Power – LL 6.35 power terminal

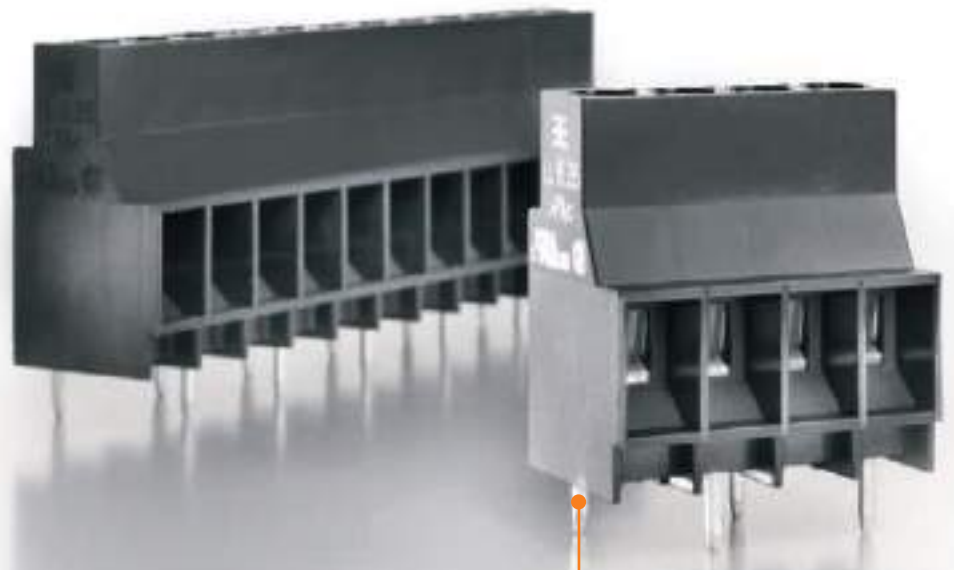
## Unrestricted use up to 600 V to UL 1059 approval in 6.35 mm pitch

**Your device connections increasingly require international approval to UL 1059 to 600 V. We offer you the matching power terminal in 6.35 mm pitch.**

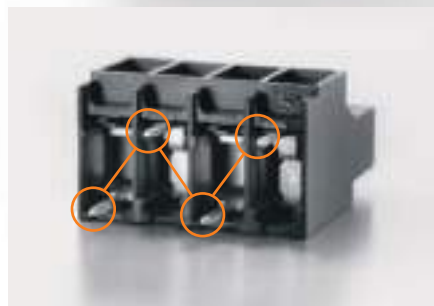
International UL certification for 600 V is an important factor for many power electronics applications. The wiring must also be safe and maintenance-free and meet the high insulator requirements.

Our LL 6.35 power terminal meets all the certification criteria unrestricted. Not only is it especially safe, but it has an extremely compact 6.35 mm pitch design.

You will receive a maintenance-free solution with proven clamping yoke screw technology for conductors up to 6 mm<sup>2</sup>. Ideal for device connections in drive technology, power supply, solar inverter and line filter applications.

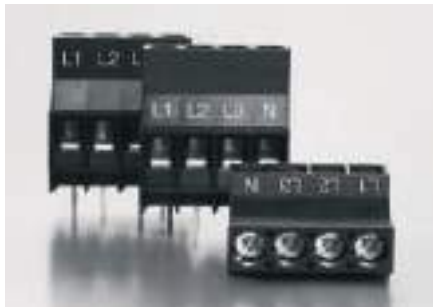


**Clever design**  
The staggered solder pins are a speciality of the LL 6.35. These pins provide the required clearance and creepage distances for unrestricted 600 V certification to UL 1059.



**Clear marking**

The design of the LL 6.35 allows individual direct labelling on three possible levels. This allows a direct assignment and avoids installation errors.



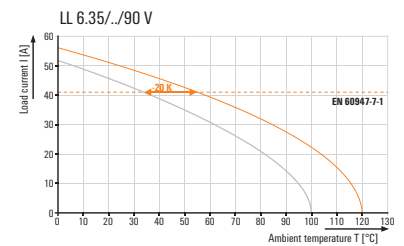
**Safe operation**

The world-wide compatible screw head allows an interference fit bolted joint that can be operated using all standard tools and power tools.



**High-quality insulation**

The insulating material WEMID satisfies the highest environmental standards, is creep-current resistant to CTI 600 and fire resistant to UL 94-V0. With a continuous operating temperature of 120 °C it exceeds the standard value of PA (100 °C) by 20 K.



**Safe fire resistance**

The use of high-quality plastics allows compliance with the increased requirements for fire safety in accordance with the household appliance standard IEC 60335-1.



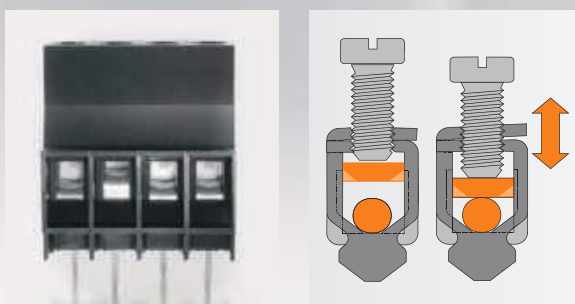
**Can be ordered online**

Order your sample world-wide directly from the OMNIMATE® online catalogue at [www.sample-service.com](http://www.sample-service.com)



**Maintenance-free terminal point**

A vibration resistant and maintenance-free connection is made using our proven WIRE GUARD and WIRE READY clamping yoke screw connection.



# OMNIMATE® Power PCB terminals

## High-power connections up to 150 A / 1,000 V

The OMNIMATE® Power PCB terminals – ranging from the LUP in 10.16-mm pitch to the LXXX in 15.00-mm pitch – is approved for unlimited international use in applications according to UL 1059 (600 V) and IEC (1,000 V). Weidmüller’s self-securing steel clamping yoke is 100 % maintenance free. It provides vibration-proof connections to the PCB for wires up to 50 mm<sup>2</sup>.

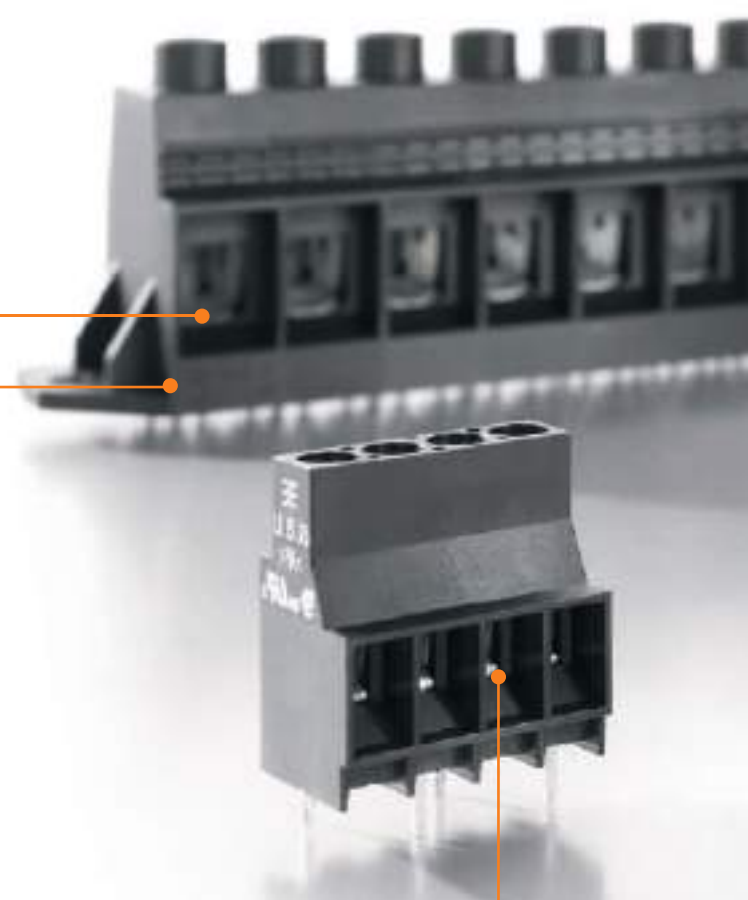
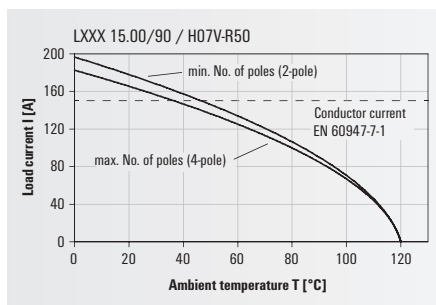
### Unrivalled clamping

With an unmatched clamping range, the LXXX 15.0 offers a safe and strong wire connection for cross-sections up to 50 mm<sup>2</sup> / AWG1 and 150 A to the circuit board.



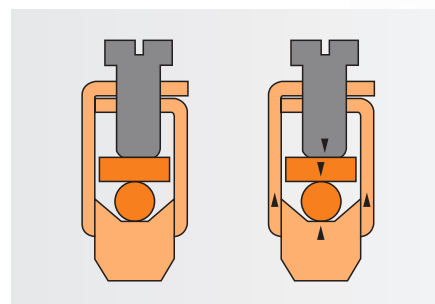
### Power reserve for safety

The high-performance WEMID insulation material helps increase the availability of the system. With an RTI (relative temperature index) of 120 °C, the OMNIMATE® Power PCB terminals exceed the upper continuous-use temperature recommended by the Standard PA (100 °C) by 20 °C. Thus there are more power reserves and improved safety in event of temperature fluctuations or overloads.



### Screw connection system

The automatically counter-operating Weidmüller steel clamping yoke uses force generated by tightening the screw to open the upper thread. Settling of the connected wires and vibrations are compensated for and this guarantees a maintenance free operation. Subsequent tightening and maintenance of the screw is not needed.



**Standard-compliant integration**

Weidmüller terminals meet the extended creepage and clearance distances according to UL and finger safety in accordance with the IEC 61800-5-1 device standard.



**Wire protection**

The integrated "Wire Guard" mechanism on the OMNIMATE® Power PCB terminals prevents wires from being inserted improperly and prevents a malfunctioning contact.



**Integrated test point**

The required maintenance and measurements can be carried out in a safe, reliable and convenient manner.



**Labelling and assigning**

Terminals are available with custom direct printing, versatile Dekafix labelling, affordable adhesive strips and colour coding.





## Reliable and fast connection of power electronics devices

### LUF and LUFS series PCB terminal with PUSH IN connection

Maximum performance with increased economic efficiency – these are the current trends in the field of power electronics. In order to achieve this goal, devices must combine excellent functionality with simple operation. This will have an impact on the device connectivity systems, which need to be fault-free, safe and quick in their usage.

The LUF PCB terminal from the OMNIMATE® Power product range features proven PUSH IN connection technology. This has allowed us to carry out tool-free wiring for wire cross-sections up to 16 mm<sup>2</sup> and to meet requirements in accordance with UL 1059 for 600 V in the 10.00 mm pitch and with 1,000 V in the 15.00 mm pitch.

LUF(S) provides high levels of contact reliability based on the Weidmüller Connection Safety Concept. The terminal contact shuts automatically to prevent malfunction. LUF has a tool-free wiring system, and LUFS can be actuated with a simple screwdriver to connect cross sections up to 16 mm<sup>2</sup>. The PUSH IN connection system also allows a quick, convenient and therefore efficient wiring.



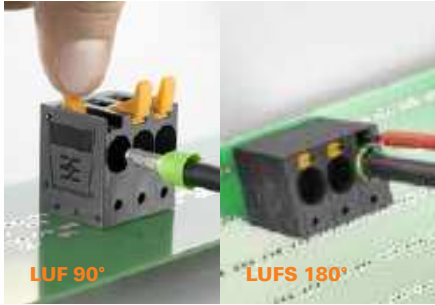
#### Compliant with UL 1059

As a result of the offset arrangement of the solder pins, the LUF 15.00 and also the LUFS 15.00 allows unrestricted international use in applications in accordance with UL 1059 up to 1,000 V.



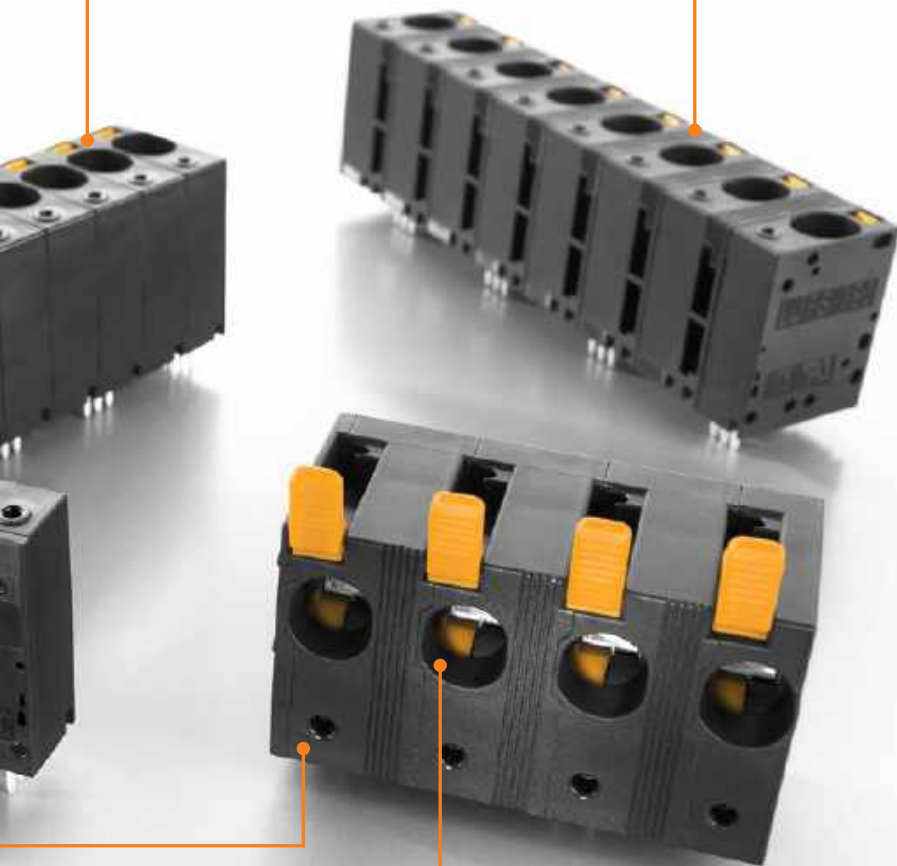
**Comfortable actuation**

An ergonomic lever makes it easy to open the clamp and release the wire. The contact point for LUF can be opened comfortably by hand, and LUFS can be opened using a standard screwdriver.



**Convenient access to test points**

In order to provide maximum flexibility, LUF 90° offers two test points – one beside the cable entry and another beside the actuating lever side. LUFS 180° features one test point located beside the cable entry.



**PUSH IN connection up to 16 mm<sup>2</sup>**

The PUSH IN connection system allows for wires to be connected to the PCB board without the need for tools. Solid wires or wires with ferrules can be directly connected. Done!



**Your special advantages:**

**Perfect connection thanks to high levels of contact reliability**

This contact system is automatically closed after being opened. This intelligent Connection Safety Concept helps to ensure that the wire is always connected safely.



The LUF and LUFS are not only proving to be impressive thanks to their good performance and easy operability – ensured by the unusually high level of contact reliability – but also meets all the challenges that arise in power electronic applications.

## Reliable and fast connection in power electronic applications LLF 7.50 PCB terminal with PUSH IN connection system

Modern systems and technology – for example, photovoltaic inverters – underlie continuous development and optimisation. Technological advances often depend on powerful, flexible and robust connectivity systems to ensure secure and reliable operation.

The LLF PCB terminal from the OMNIMATE® Power product range features proven PUSH IN connection technology. This has allowed us to carry out tool-free wiring for wire cross-sections up to 6 mm<sup>2</sup> and to meet requirements in accordance with UL 1059 for 600 V in pitch 7.5 mm.

Just like the PCB terminals LUF and LUFS, LLF uses the Weidmüller “Connection Safety Concept”, which has a PUSH IN connection for quick and safe mounting. The actuation lever allows for quick, simple, and safe wiring with excellent performance.



### Compliant with UL 1059 up to 600 V

As a result of the offset arrangement of the solder pins, the LLF allows unrestricted international use in applications in accordance with UL 1059 up to 600 V.



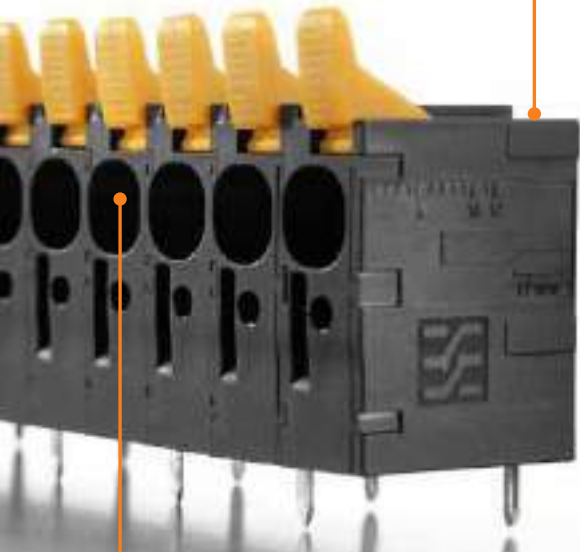
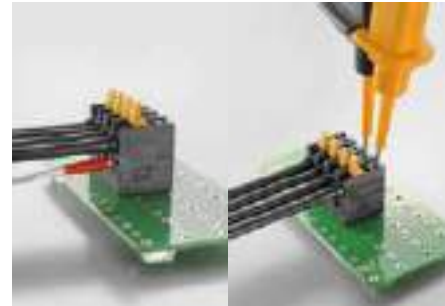
**High level of reliability**

LLF provides high levels of contact reliability based on the "Connection Safety Concept". The terminal contact closes automatically to prevent malfunction.



**Convenient access to test points**

Two test points with LLF, one located beside the cable entry and another beside the actuating lever, provide a great flexibility during testing.



**Tool-free wiring system**

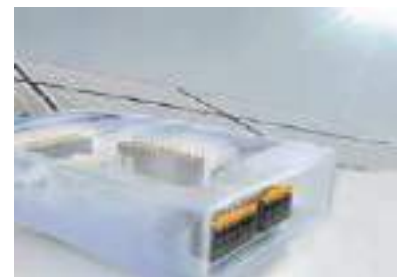
The PUSH IN connection and the simple and safe operation of the actuator lever ensure quick, convenient and efficient wiring of cross sections up to 6 mm<sup>2</sup>.



**Your special advantages:**

**Comfortable actuation**

The ergonomically designed lever allows an operator to easily actuate and open clamp in order to release the cable. The contact point get readily opened by hand without the need for any physical exertion.



LLF is capable of handling challenging applications that not only require high current and voltage but also demand a secure connectivity. LLF maximises connection safety and reliability within a compact space.

## Safe and efficient connection of power electronics devices LUF 10.00 with PUSH IN in accordance with UL 1059 for 600 V

Maximum performance with increased economic efficiency – these are the current trends in the field of power electronics. In order to achieve this goal, devices must combine excellent functionality with simple operation. This will have impact on the device connectivity systems, which needs to be fault-free, safe and quick in his usage.

The LUF PCB terminal from the OMNIMATE® Power product range features tried-and-tested PUSH IN connection technology. This has allowed us to realise tool-free wiring for wire cross-sections up to 16 mm<sup>2</sup> and to meet requirements in accordance with UL 1059 for 600 V in the 10.00 mm pitch.

In addition to the particularly simple handling of the actuator lever, the LUF also provides high levels of contact reliability that is based on the “Connection Safety Concept” from Weidmüller. The quick and safe wire connection with PUSH IN connection system as well as the simple and safety operation of the actuator lever for opening the contact allow a quick, convenient and therefore economical wiring.

### According to UL 1059 up to 600 V

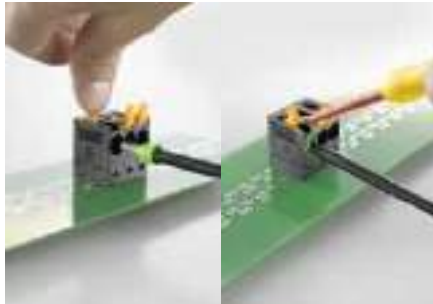
As a result of the offset arrangement of the solder pins, the LUF allows unrestricted international use in applications in accordance with UL 1059 up to 600 V.





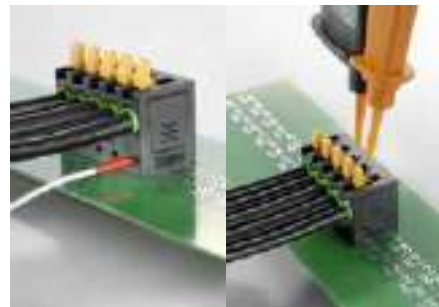
**Easy actuation**

The contact point can be opened without any physical exertion and without the need of any special tools. It can be done by hand or using a simple screwdriver.



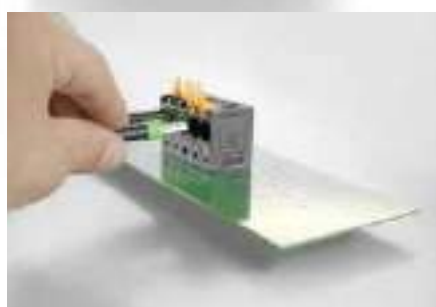
**Available for testing at any time**

Easily accessible diagnostic testing points for necessary maintenance and measurements in direction of cable entry or on the actuating lever side allows the using of tester or connector PS2.



**PUSH IN connector up to 16 mm<sup>2</sup>**

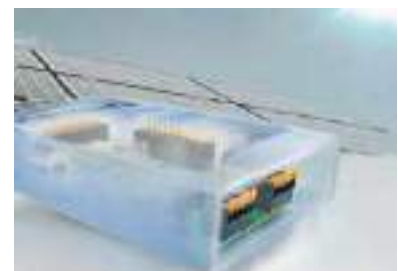
The PUSH IN connection system allows a tool-free wire connection to the PCB board. Solid wires or wires with ferrules can be directly plugged. Done!



**Your special advantages:**

Perfect connection thanks to high levels of contact reliability

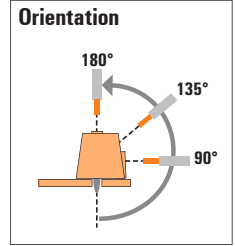
This contact system is getting automatically closed after it was opened. This intelligent "Connection Safety Concept" helps ensure that the wire is always safely connected.



The LUF is not only impressive concerning performance and easy operability – due to the particularly high level of contact reliability, this PCB terminal meets all the challenges of power-electronics applications.

<http://www.OMNIMATE.net>

- = 300 V (UL) / 1,000 V (IEC)
- = 600 V (UL) / 1,000 V (IEC)



## PCB terminals

Type of connection	Clamping range	Type	IEC / UL	90°	135°	180°	
<b>Screw</b>	<b>≤ 6 mm<sup>2</sup></b>		<b>LL 6.35/./90 V*</b>	IEC: 1,000 V/32 A/0.18 - 6 mm <sup>2</sup> UL: 600 V/30 A/AWG 26 - 10	●		
			<b>LU 10.16</b>	IEC: 1,000 V/76 A/0.5 - 16 mm <sup>2</sup> UL: 300 V/65 A/AWG 26 - 6	●		
	<b>≤ 16 mm<sup>2</sup></b>		<b>LUP 10.16</b>	IEC: 1,000 V/76 A/0.5 - 16 mm <sup>2</sup> UL: 300 V/58 A/AWG 26 - 6	●		
			<b>LUP 10.16/./90 V*</b>	IEC: 1,000 V/76 A/0.5 - 16 mm <sup>2</sup> UL: 600 V/51 A/AWG 22 - 6	●		
			<b>LUP 12.70</b>	IEC: 1,000 V/76 A/0.5 - 16 mm <sup>2</sup> UL: 600 V/58 A/AWG 26 - 6	●		
	<b>≤ 25 mm<sup>2</sup></b>		<b>LX 15.00</b>	IEC: 1,000 V/101 A/0.5 - 25 mm <sup>2</sup> UL: 600 V/85 A/AWG 16 - 4	●		
			<b>LXB 15.00</b>	IEC: 1,000 V/101 A/1.5 - 25 mm <sup>2</sup> UL: 600 V/85 A/AWG 16 - 4	●		
	<b>≤ 50 mm<sup>2</sup></b>		<b>LXXX 15.00</b>	IEC: 1,000 V/150 A/0.5 - 50 mm <sup>2</sup> UL: 600 V/127 A/AWG 20 - 1	●		
			<b>LXXX 15.00/./90F</b>	IEC: 1,000 V/150 A/0.5 - 50 mm <sup>2</sup> UL: 600 V/127 A/AWG 20 - 1	●		

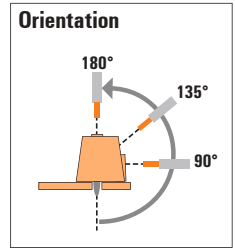
\* With offset solder pins





<http://www.OMNIMATE.net>

- 300 V
- 600 V
- 1.000 V

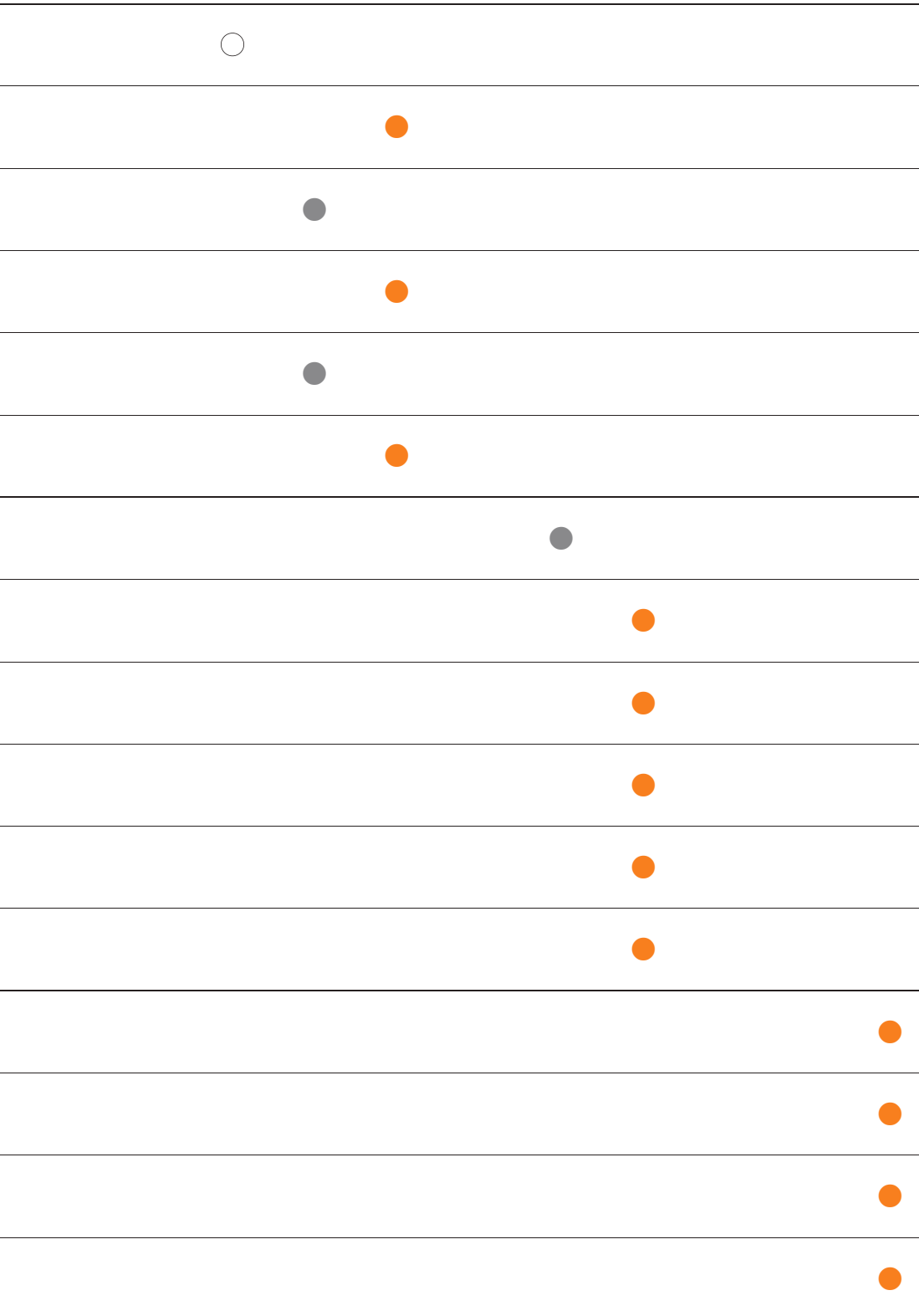


## PCB terminals

Type of connection	Clamping range	Type	IEC / UL	90°	135°	180°
PUSH IN	≤ 6 mm <sup>2</sup>	 <b>LLF 7.50/90</b>	IEC: 600 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 300 V / 35 A / AWG 24 - AWG 8	●		
		 <b>LLF 7.50/90V*</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 35 A / AWG 24 - AWG 8	●		
		 <b>LLFS 7.50/180</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 300 V / 37 A / AWG 24 - AWG 8			●
		 <b>LLFS 7.50/180V*</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 37 A / AWG 24 - AWG 8			●
		 <b>LLFS 7.50/90</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 300 V / 37 A / AWG 24 - AWG 8	●		
		 <b>LLFS 7.50/90V*</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 37 A / AWG 24 - AWG 8	●		
PUSH IN	≤ 16 mm <sup>2</sup>	 <b>LUF 10.00/90</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 300 V / 61 A / AWG 18 - AWG 6	●		
		 <b>LUF 10.00/90V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 58 A / AWG 18 - AWG 6	●		
		 <b>LUFS 10.00/180</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 61 A / AWG 18 - AWG 6			●
		 <b>LUFS 10.00/180V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 58 A / AWG 18 - AWG 6			●
		 <b>LUFS 10.00/90</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 61 A / AWG 18 - AWG 6"	●		
		 <b>LUFS 10.00/90V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 58 A / AWG 18 - AWG 6	●		
PUSH IN	≤ 16 mm <sup>2</sup>	 <b>LUF 15.00/90</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 66 A / AWG 20 - AWG 4	●		
		 <b>LUF 15.00/90V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 66 A / AWG 20 - AWG 4	●		
		 <b>LUF 15.00/180</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 66 A / AWG 20 - AWG 4			●
		 <b>LUFS 15.00/90V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 66 A / AWG 20 - AWG 4			●

\* mit versetzten Lötstiften

Pitch, in mm	7,50			10,00			15,00		
Rated voltage IEC	600 V	1000 V	1000 V	600 V	1000 V	1000 V	600 V	1000 V	1000 V
Rated voltage UL	300 V	300 V	600 V	300 V	300 V	600 V	300 V	300 V	600 V



LL 6.35



High-power PCB terminal with proven clamping yoke screw connection, 6.35 mm pitch, for conductor cross-sections up to 6 mm<sup>2</sup>.

- UL 600 V approval for unlimited international use in devices.
- Increased derating reserves due to the use of WEMID insulating material.
- Conductor outlet direction of 90°
- Block construction for versions up to 12 poles

Technical data

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.18...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.18...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.22...4	
Flexible with ferrule	mm <sup>2</sup>	0.5...4	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...2.5	
Stripping length	mm	8	
Screwdriver blade	mm	0.8 x 4.0, PZ 1	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>32</b>	<b>32</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>30</b>	<b>30 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>26-10</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600 600
Rated current	A	30	30 5
AWG conductor	AWG	26-10	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 0.6	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 32 A / 0.18 - 6 mm<sup>2</sup>  
 UL: 600 V / 30 A / AWG 26 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

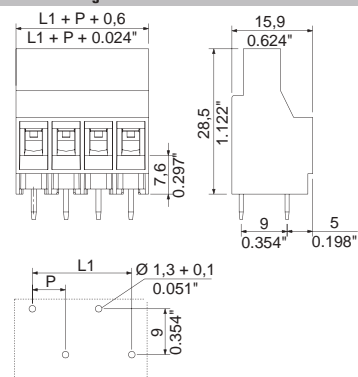
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- It is necessary to hold the insulating body of the one or two pole terminal when tightening the screw
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LL 6.35




Dimensioned drawing



Accessories

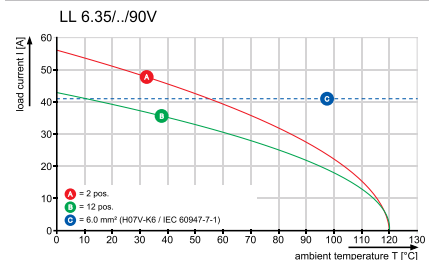
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
	SDK PZ1 X 80	2749440000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		6.35 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	6.35	0.250	138	1356830000
3	12.70	0.500	90	1356840000
4	19.05	0.750	66	1356850000
5	25.40	1.000	54	1356870000
6	31.75	1.250	48	1356880000
7	38.10	1.500	36	1356890000
8	44.45	1.750	36	1356900000
9	50.80	2.000	30	1356920000
10	57.15	2.250	24	1356930000
11	63.50	2.500	24	1356940000
12	69.85	2.750	24	1356950000

Representative deratings curve





LU 10.16/./90



High-power PCB Terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm<sup>2</sup> (AWG 6).

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90° version.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.14...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...2.2	
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature	20°C	40°C	
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>690 1000</b>
Rated impulse voltage	kV	6	6 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 600</b>
<b>Rated current</b>	<b>A</b>	<b>65</b>	<b>65 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>26-6</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	150 300
Rated current	A	65	65 10
AWG conductor	AWG		22-6
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 300 V / 65 A / AWG 26 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

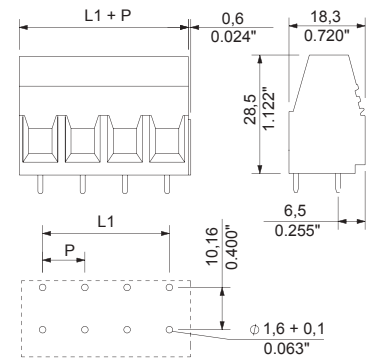
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LU 10.16/./90



Dimensioned drawing



Accessories

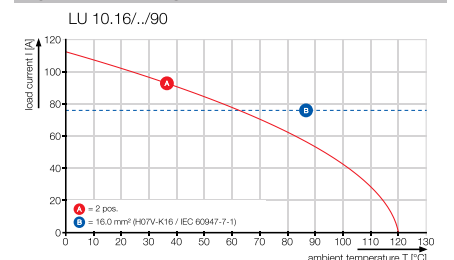
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDS 1.0X5.5X150	2749380000
SDIS 1.0X5.5X125	2749850000
<b>Crosshead screwdriver</b>	
SDK PZ2 X 100	2749450000
SDIK PZ2 X 100	2749930000
<b>Identification systems</b>	
DEK 5 NEUTRAL	0473360000
<b>Marking tags</b>	
DEK 5/5 MC NE WS	1609801044

Ordering data

Solder pin length		4.5 mm	
Colour		black	
Pitch	10.16 mm	Qty.	Order No.
2	10.16	20	1934140000
3	20.32	20	1921450000
4	30.48	20	1226220000
5	40.64	20	1226230000
6	50.80	20	1226240000
7	60.96	20	1226250000
8	71.12	20	1226260000
9	81.28	20	1226270000
10	91.44	20	1226280000

Representative deratings curve



LUP 10.16/./90



High-power PCB terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm<sup>2</sup> (AWG 6).

- Increased derating reserves through the use of WEMID insulating material.
- Conductor outlet direction: 90°
- With integrated test point for test plug PS 2.0.

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
UL: 300 V / 58 A / AWG 26 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

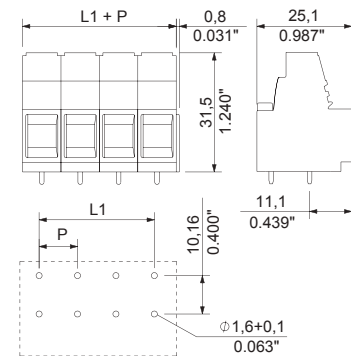
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUP 10.16/./90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5, PZ 2	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>72</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>58</b>	<b>58 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>26-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	58	58 5
AWG conductor	AWG	22-6	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet $\phi = D$	mm	1.6	
Solder eyelet $\phi$ tolerance	mm	+ 0,1	

Accessories

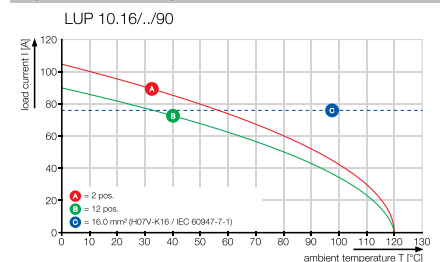
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDS 1.0X5.5X150	2749380000
SDIS 1.0X5.5X125	2749850000
Crosshead screwdriver	
SDK PZ2 X 100	2749450000
SDIK PZ2 X 100	2749930000
Test plug	
PS 2.0 MC	0310000000
Identification systems	
DEK 5 NEUTRAL	0473360000
Marking tags	
DEK 5/5 MC NE WS	1609801044

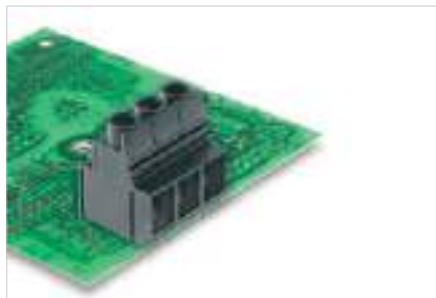
Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch 10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	20	2014050000
3	20.32	0.800	20	2014060000
4	30.48	1.200	20	2014090000
5	40.64	1.600	20	2014140000
6	50.80	2.000	20	2014150000
7	60.96	2.400	20	2014160000
8	71.12	2.800	20	2014170000
9	81.28	3.200	20	2014180000

Representative deratings curve



LUP 10.16/./90V



High-performance PCB terminal block with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm<sup>2</sup> (AWG 6).

- UL approval 600 V
- Increased derating reserves through the use of WEMID insulating material.
- Wire outlet direction: 90°
- With integrated test point for test plug PS 2.0.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5, PZ 2	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>72</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>51</b>	<b>51 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>22-6</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	51	51 5
AWG conductor	AWG	22-6	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 51 A / AWG 22 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

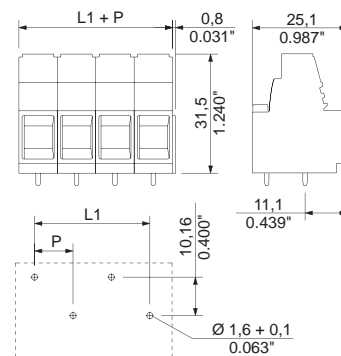
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUP 10.16/./90V



Dimensioned drawing



Accessories

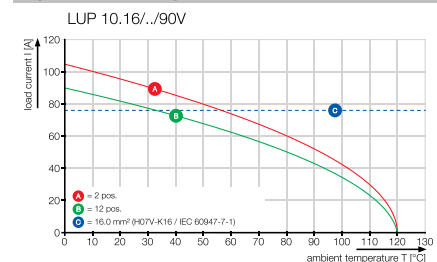
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDS 1.0X5.5X150	2749380000
SDIS 1.0X5.5X125	2749850000
Crosshead screwdriver	
SDK PZ2 X 100	2749450000
SDIK PZ2 X 100	2749930000
Test plug	
PS 2.0 MC	0310000000
Identification systems	
DEK 5 NEUTRAL	0473360000
Marking tags	
DEK 5/5 MC NE WS	1609801044

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch 10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	20	2012810000
3	20.32	0.800	20	2012890000
4	30.48	1.200	20	2013870000
5	40.64	1.600	20	2013880000
6	50.80	2.000	20	2013890000
7	60.96	2.400	20	2013900000
8	71.12	2.800	20	2013910000
9	81.28	3.200	20	2013920000

Representative deratings curve



LUP 12.7../90



High-performance PCB terminal block with clamping yoke screw connection, in 12.70 mm pitch for wire cross-sections up to 16 mm<sup>2</sup>.

- UL approval 600 V
- Increased derating reserves through the use of WEMID insulating material.
- Wire outlet direction: 90°
- With integrated test point for test plug PS 2.0.

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 65 A / AWG 22 - 6



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

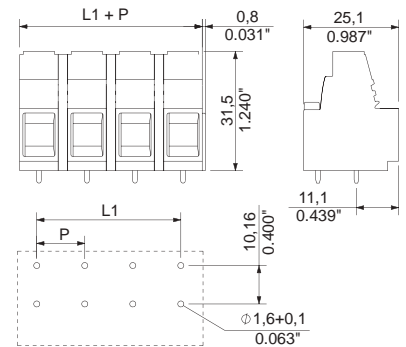
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUP 12.7../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.13...16
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>
Stranded H07 V-R		...16
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16
Flexible with ferrule	mm <sup>2</sup>	2.5...10
Ferrule with plastic collar	mm <sup>2</sup>	2.5...10
Stripping length	mm	12
Screwdriver blade	mm	1.0 x 5.5, PZ 2
According to norm		DIN 5264
Tightening torque range	Nm	1.2...1.5
<b>Rated current, max.</b>	<b>A</b>	<b>76 76</b>
At ambient temperature		20°C 40°C

For conductor cross-section		III	III	II
Overvoltage category		3	2	2
Pollution severity		3	2	2

<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
Rated impulse voltage	kV	8	8	6

UL / CUL (Use Group)

<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>65</b>	<b>65</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>22-6</b>	

CSA (Use Group)

Rated voltage	V	600	600
Rated current	A	65	65
AWG conductor	AWG	22-6	

General data

Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		E-Cu
Material of contact surface		tinned
Pin dimensions = d	mm	1.2 x 1.2
Solder eyelet Ø = D	mm	1.6
Solder eyelet Ø tolerance	mm	+ 0,1

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDS 1.0X5.5X150	2749380000
SDIS 1.0X5.5X125	2749850000

Crosshead screwdriver	Order No.
SDK PZ2 X 100	2749450000
SDIK PZ2 X 100	2749930000

Test plug	Order No.
PS 2.0 MC	0310000000

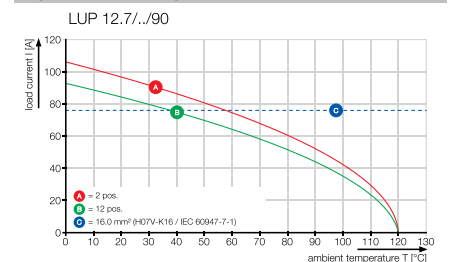
Identification systems	Order No.
DEK 5 NEUTRAL	0473360000

Marking tags	Order No.
DEK 5/5 MC NE WS	1609801044

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		12.70 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	12.70	0.500	20	2014360000
3	25.40	1.000	20	2014380000
4	38.10	1.500	20	2014400000
5	50.80	2.000	20	2014420000
6	63.50	2.500	20	2014590000
7	76.20	3.000	20	2014610000
8	88.90	3.250	20	2014760000
9	101.60	4.000	20	2014900000

Representative deratings curve





LX 15.00/./90



High-power PCB Terminal with clamping yoke screw connection, in 15.00 mm pitch for wire cross-sections up to 25 mm<sup>2</sup> (AWG 4).

- UL 600 V approval.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°.
- With integrated test point for PS 2.0 test plug.
- Versions up to 8 poles have block construction.
- Available with and without mounting flange.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	1.31...25
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>1.5...16</b>
Stranded H07 V-R	mm <sup>2</sup>	6...25
Flexible H05(07) V-K	mm <sup>2</sup>	1.5...25
Flexible with ferrule	mm <sup>2</sup>	1.5...16
Ferrule with plastic collar	mm <sup>2</sup>	1.5...16
Stripping length	mm	16
Screwdriver blade	mm	1.0 x 5.5
According to norm		DIN 5264
Tightening torque range	Nm	2.4...4
<b>Rated current, max.</b>	<b>A</b>	<b>101 101</b>
At ambient temperature	20°C	40°C
For conductor cross-section		
Overvoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000 1000 1000</b>
Rated impulse voltage	kV	8 8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600 600 600</b>
<b>Rated current</b>	<b>A</b>	<b>85 85 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>16-4</b>
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B C D</b>
Rated voltage	V	600 600 600
Rated current	A	85 85 5
AWG conductor	AWG	16-4
<b>General data</b>		
Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		E-Cu
Material of contact surface		tinned
Pin dimensions = d	mm	1.2 x 1.2
Solder eyelet Ø = D	mm	1.6
Solder eyelet Ø tolerance	mm	+ 0,1

Product data

IEC: 1000 V / 101 A / 1.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 85 A / AWG 16 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

Note:

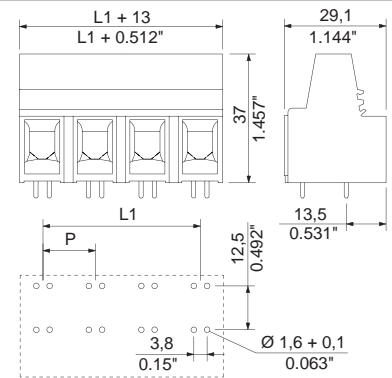
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LX 15.00/./90

with test point



Dimensioned drawing



Accessories

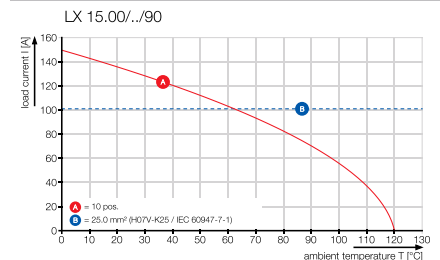
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDS 1.2X6.5X150	2749390000
SDIS 1.2X6.5X150	2749860000
Crosshead screwdriver	
SDK PZ2 X 100	2749450000
SDIK PZ2 X 100	2749930000
Test plug	
PS 2.0 MC	0310000000
Identification systems	
DEK 5 NEUTRAL	0473360000
Marking tags	
DEK 5/5 MC NE WS	1609801044

Ordering data

Solder pin length	4.5 mm			
Colour	black			
Pitch	15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1226460000
2	15.00	0.591	20	1226470000
3	30.00	1.181	20	1174720000
4	45.00	1.772	20	1226480000
5	60.00	2.362	20	1226490000
6	75.00	2.953	10	1226500000
7	90.00	3.543	10	1226510000
8	105.00	4.134	10	1921480000

Representative deratings curve

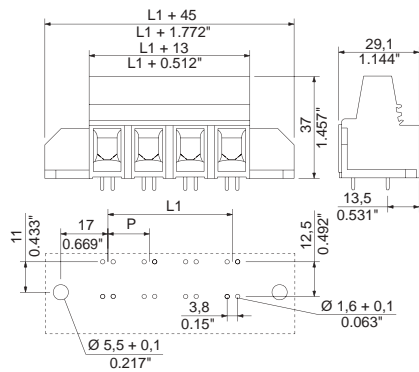


**LXB 15.00../90**

with fixing flange and test point



Dimensioned drawing



**Ordering data**

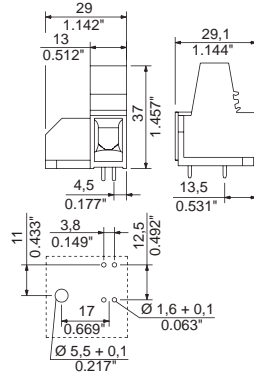
Solder pin length		4.5 mm		
Colour		black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.591	20	1226520000
3	30.00	1.181	20	1226530000
4	45.00	1.772	20	1226540000
5	60.00	2.362	20	1226550000
6	75.00	2.953	10	1226560000
7	90.00	3.543	10	1226570000
8	105.00	4.134	10	1226580000

**LXBL 15.00../90**

with fixing flange left and test point



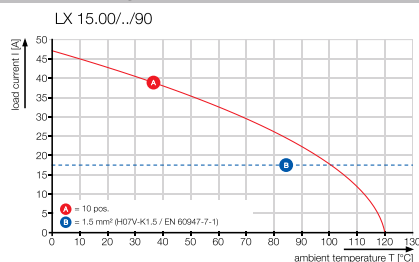
Dimensioned drawing



**Ordering data**

Solder pin length		4.5 mm		
Colour		black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1226590000

**Additional deratings curves**



LXXX 15.00/./90



High-power PCB Terminal with clamping yoke screw connection, in 15.00 mm pitch for wire cross-sections up to 50 mm<sup>2</sup> (AWG 1).

- UL 600 V approval for unlimited international usage in devices.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- With integrated test point for PS 2.0 test plug.
- Versions up to 8 poles have block construction.
- Available with and without mounting flange.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...50	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...50	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...35	
Flexible with ferrule	mm <sup>2</sup>	0.5...35	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...35	
Stripping length	mm	18	
Screwdriver blade	mm	1.2 x 6.5	
According to norm		DIN 5264	
Tightening torque range	Nm	2.5...4	
<b>Rated current, max.</b>		<b>150</b>	<b>150</b>
At ambient temperature	20°C		40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>126</b>	<b>126</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-1</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	127	127 5
AWG conductor	AWG	20-1	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 150 A / 0.5 - 50 mm<sup>2</sup>  
 UL: 600 V / 126 A / AWG 20 - 1



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

Note:

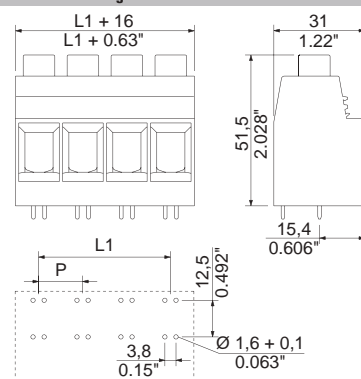
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- IP 20 from 16 mm<sup>2</sup> to 50 mm<sup>2</sup>
- The test point can only be used as potential-pickup point.
- Wire-end ferrules are mandatory for stranded wires with more than 19 strands.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LXXX 15.00/./90

with test point



Dimensioned drawing



Accessories

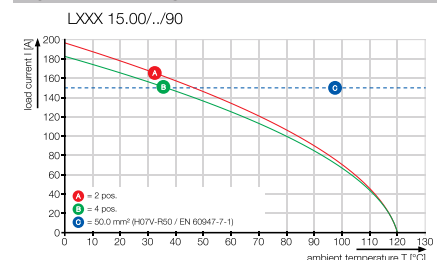
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDS 1.2X6.5X150	2749390000
SDIS 1.2X6.5X150	2749860000
Crosshead screwdriver	
SDK PZ2 X 100	2749450000
SDIK PZ2 X 100	2749930000
Test plug	
PS 2.0 MC	0310000000
Identification systems	
DEK 5 NEUTRAL	0473360000
Marking tags	
DEK 5/5 MC NE WS	1609801044

Ordering data

Solder pin length		4.5 mm		
Colour		black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1047120000
2	15.00	0.591	20	1047130000
3	30.00	1.181	10	1047140000
4	45.00	1.772	10	1047150000
5	60.00	2.363	16	1386250000
6	75.00	2.954	12	1386400000
7	90.00	3.545	12	1386550000
8	105.00	4.136	10	1386700000
9	120.00	4.727	8	1386850000

Representative deratings curve

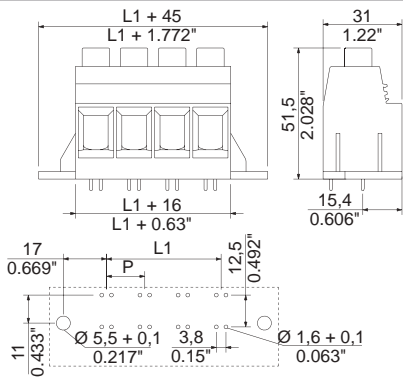


LXXX 15.00../90F

with fixing flange and test point



Dimensioned drawing



Ordering data

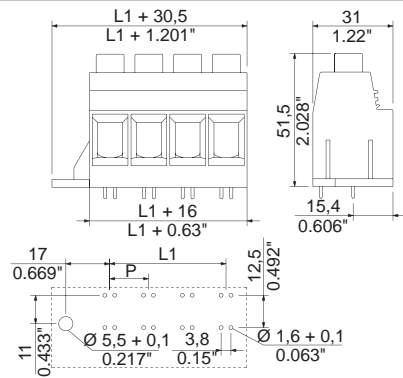
Solder pin length		4.5 mm	
Colour		black	
Pitch		15.00 mm	
Pol.	L1	(inch)	Qty. Order No.
1	0.00	0.000	20 1047280000
2	15.00	0.591	20 1047290000
3	30.00	1.181	10 1047300000
4	45.00	1.772	10 1047310000
5	60.00	2.363	12 1386290000
6	75.00	2.954	10 1386440000
7	90.00	3.545	8 1386590000
8	105.00	4.136	8 1386740000
9	120.00	4.727	8 1386890000

LXXX 15.00../90FL

with fixing flange left and test point



Dimensioned drawing



Ordering data

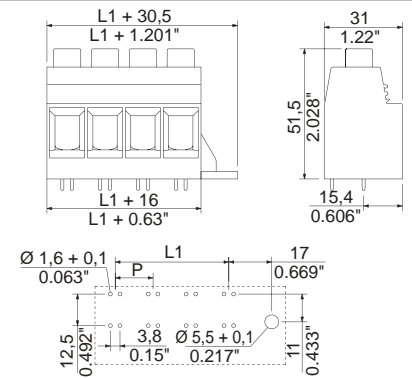
Solder pin length		4.5 mm	
Colour		black	
Pitch		15.00 mm	
Pol.	L1	(inch)	Qty. Order No.
1	0.00	0.000	20 1047440000
2	15.00	0.591	20 1047450000
3	30.00	1.181	10 1047460000
4	45.00	1.772	10 1047470000
5	60.00	2.363	12 1386330000
6	75.00	2.954	12 1386480000
7	90.00	3.545	10 1386630000
8	105.00	4.136	8 1386780000
9	120.00	4.727	8 1386930000

LXXX 15.00../90FR

with fixing flange right and test point



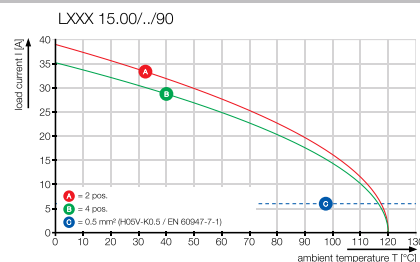
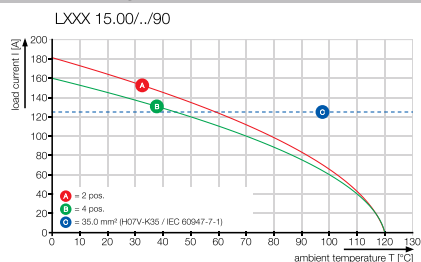
Dimensioned drawing



Ordering data

Solder pin length		4.5 mm	
Colour		black	
Pitch		15.00 mm	
Pol.	L1	(inch)	Qty. Order No.
1	0.00	0.000	20 1047600000
2	15.00	0.591	20 1047610000
3	30.00	1.181	10 1047620000
4	45.00	1.772	10 1047630000
5	60.00	2.363	12 1386370000
6	75.00	2.954	12 1386520000
7	90.00	3.545	10 1386670000
8	105.00	4.136	8 1386820000
9	120.00	4.727	8 1386970000

Additional deratings curves



LLF 7.50/./90



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>1000 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	1000 300
Rated current	A	35	35 10
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 300 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

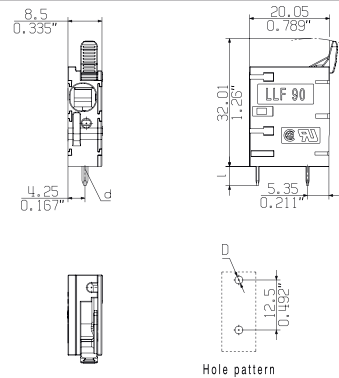
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LLF 7.50/./90



Dimensioned drawing



Ordering data

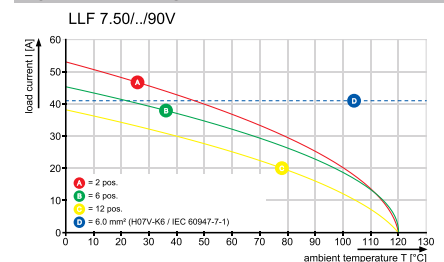
Solder pin length		5 mm	
Colour		black	
Pitch		7.50 mm	
Pol.	L1	(inch)	Qty. Order No.
1	0.00	0.000	200 2471520000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.5X3.0X100	2749800000
	SDS 0.5X3.0X80	2749330000
Test plug		
	PS 2.0 MC	0310000000

Representative deratings curve



LLF 7.50/.. /90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG		24-8
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

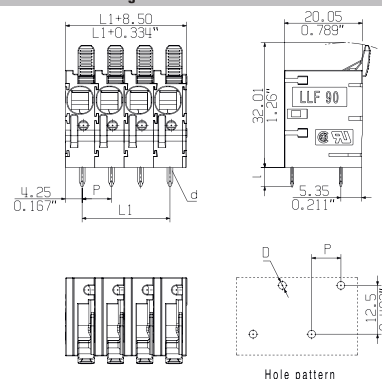
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LLF 7.50/.. /90V



Dimensioned drawing



Accessories

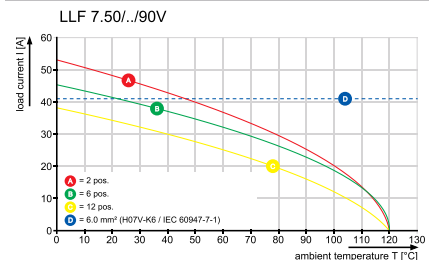
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.5X3.0X100	2749800000
	SDS 0.5X3.0X80	2749330000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		7.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.50	0.295	100	2471530000
3	15.00	0.590	80	2472090000
4	22.50	0.885	80	2472100000
5	30.00	1.180	50	2472110000
6	37.50	1.475	50	2472120000
7	45.00	1.770	50	2472130000
8	52.50	2.065	30	2472140000
9	60.00	2.360	30	2472150000
10	67.50	2.655	20	2472160000
11	75.00	2.950	20	2472170000
12	82.50	3.245	20	2472180000

Representative deratings curve



LLFS 7.50/./90



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...4</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>1000 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>37</b>	<b>37 10</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	300	1000 300
Rated current	A	37	37 10
AWG conductor	AWG	-	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 300 V / 37 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

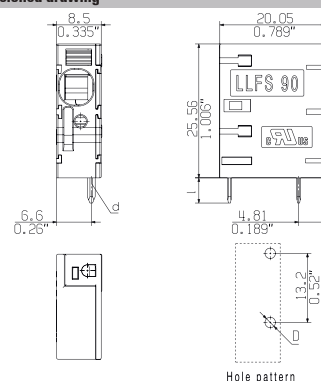
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LLFS 7.50/./90



Dimensioned drawing



Ordering data

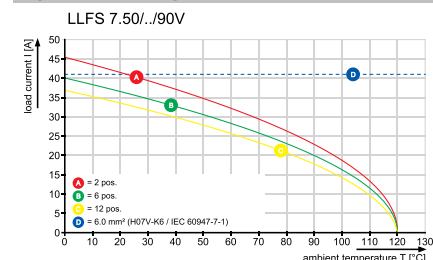
Solder pin length	5 mm			
Colour	black			
<b>Pitch</b>	<b>7.50 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	200	<b>2473420000</b>

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	<b>2749820000</b>
	SDS 0.8X4.0X100	<b>2749360000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>

Representative deratings curve





LLFS 7.50/./90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>37</b>
At ambient temperature	20°C		40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>37</b>	<b>37 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	37	37 5
AWG conductor	AWG		24-8
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 37 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

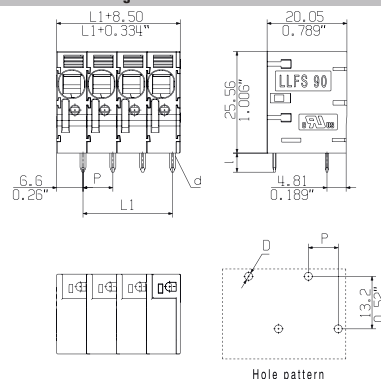
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LLFS 7.50/./90V



Dimensioned drawing



Accessories

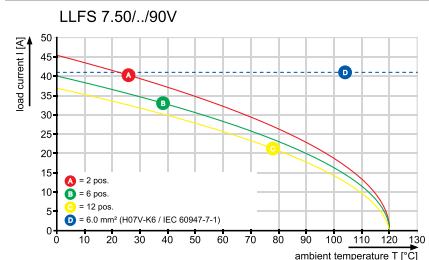
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		7.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.50	0.295	100	2473000000
3	15.00	0.590	80	2473010000
4	22.50	0.885	80	2473020000
5	30.00	1.180	50	2473030000
6	37.50	1.475	50	2473040000
7	45.00	1.770	50	2473050000
8	52.50	2.065	30	2473060000
9	60.00	2.360	30	2473070000
10	67.50	2.655	20	2473080000
11	75.00	2.950	20	2473090000
12	82.50	3.245	20	2473100000

Representative deratings curve





LLFS 7.50/./180



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>1000 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>37</b>	<b>37 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	1000 300
Rated current	A	37	37 10
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 300 V / 37 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

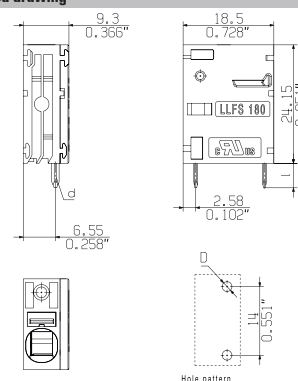
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LLFS 7.50/./180



Dimensioned drawing



Accessories

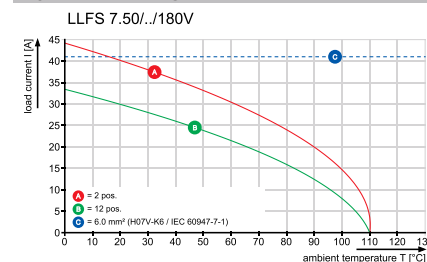
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length	5 mm			
Colour	black			
Pitch	7.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	200	2491110000

Representative deratings curve



LLFS 7.50/./180V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>38</b>
At ambient temperature	20°C		40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>37</b>	<b>37 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	37	37 5
AWG conductor	AWG		-
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 37 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

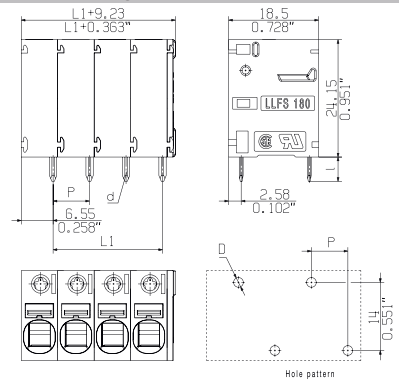
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LLFS 7.50/./180V



Dimensioned drawing



Accessories

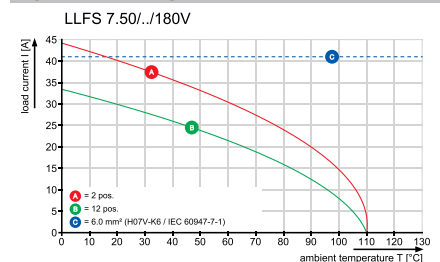
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		7.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.50	0.295	100	2491620000
3	15.00	0.591	80	2491630000
4	22.50	0.886	80	2491640000
5	37.50	1.476	50	2491650000
6	30.00	1.181	50	2491660000
7	45.00	1.772	50	2491670000
8	52.50	2.067	30	2491680000
9	60.00	2.362	30	2491690000
10	67.50	2.657	20	2491700000
11	75.00	2.953	20	2491710000
12	82.50	3.248	20	2491720000

Representative deratings curve



LUF 10.00/./90



High-performance PCB terminal block with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the Connection Safety Concept, the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves thanks to WEMID insulating material
- Wire outlet direction of 90°

Technical data

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...25	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...25	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	<b>101</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>61</b>	<b>61 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	300	1000 600
Rated current	A	61	61 5
AWG conductor	AWG	18-6	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 101 A / 0.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 61 A / AWG 18 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

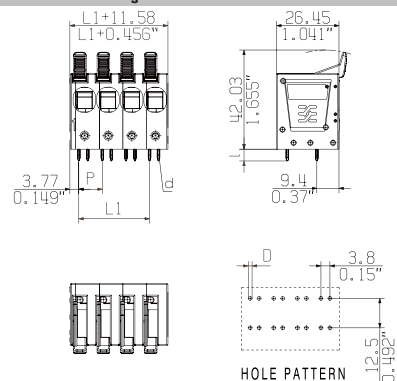
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUF 10.00/./90



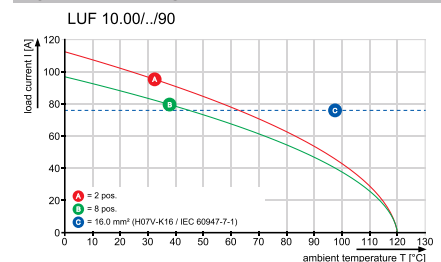
Dimensioned drawing



Ordering data

<b>Solder pin length</b>		5 mm		
<b>Colour</b>		black		
<b>Pitch</b>		10.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	50	1988590000
2	10.00	0.394	40	1988600000
3	20.00	0.787	40	1988610000
4	30.00	1.181	30	1988620000
5	40.00	1.575	25	1988630000
6	50.00	1.969	20	1988640000
7	60.00	2.362	10	1988650000
8	70.00	2.756	10	1988660000
9	80.00	3.150	10	1988670000
10	90.00	3.543	10	1988680000
11	100.00	3.937	10	1988690000
12	110.00	4.331	10	1988700000

Representative deratings curve



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 0.8X4.0X100	2749360000
	SDIS 0.8X4.0X100	2749820000
Test plug		Order No.
	PS 2.0 MC	0310000000

LUF 10.00/./90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...25	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...25	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>92</b>	<b>82</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>690 1000</b>
Rated impulse voltage	kV	8	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>58</b>	<b>58 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>18-6</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG		18-6
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 92 A / 0.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 58 A / AWG 18 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

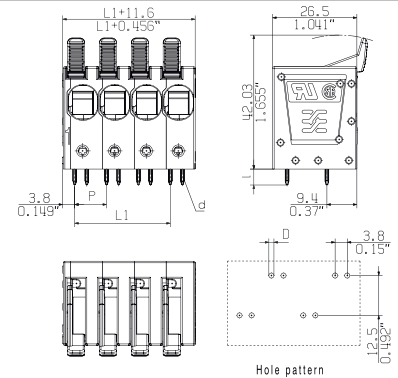
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUF 10.00/./90V



Dimensioned drawing



Accessories

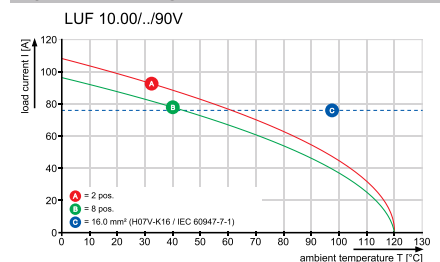
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		10.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.00	0.394	40	2453690000
3	20.00	0.787	40	2453700000
4	30.00	1.181	30	2453710000
5	40.00	1.575	25	2453720000
6	50.00	1.969	20	2453730000
7	60.00	2.362	10	2453740000
8	70.00	2.756	10	2453750000
9	80.00	3.150	10	2453760000
10	90.00	3.543	10	2453770000
11	100.00	3.937	10	2453780000
12	110.00	4.331	10	2453790000

Representative deratings curve



LUF5 10.00/./90



High-performance PCB terminal block with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the Connection Safety Concept, the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves thanks to WEMID insulating material
- Wire outlet direction of 90°

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...25	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...25	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>53</b>	<b>53 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>18-4</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	53	53 5
AWG conductor	AWG		18-4
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 53 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

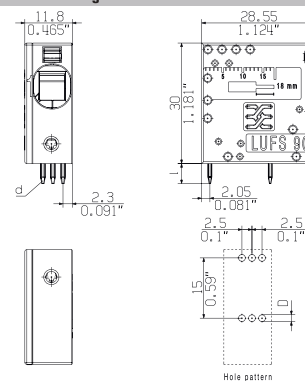
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUF5 10.00/./90



Dimensioned drawing



Ordering data

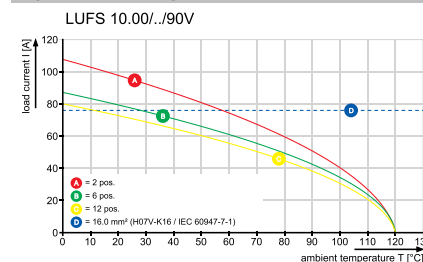
Solder pin length				5 mm
Colour				black
<b>Pitch</b>	<b>10.00 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	50	2500560000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Representative deratings curve



LUF5 10.00/./90V



High-performance PCB terminal block with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the Connection Safety Concept, the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves thanks to WEMID insulating material
- Wire outlet direction of 90°

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...25	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...25	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	<b>90.2</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>53</b>	<b>53 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>18-4</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	53	53 5
AWG conductor	AWG		18-4
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 101 A / 0.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 53 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

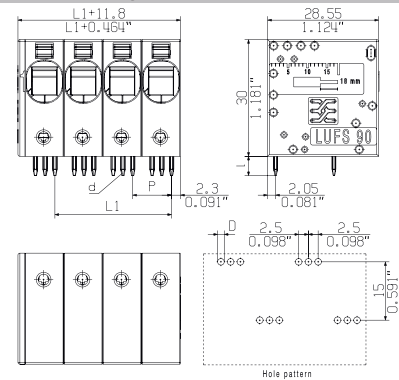
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUF5 10.00/./90V



Dimensioned drawing



Accessories

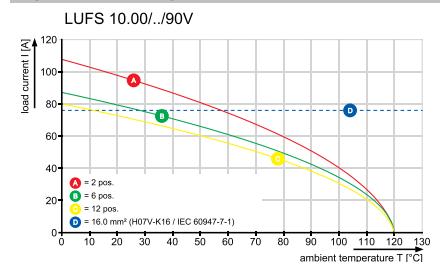
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch	10.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.00	0.394	40	2499430000
3	20.00	0.787	40	2500460000
4	30.00	1.181	30	2500470000
5	40.00	1.575	25	2500480000
6	50.00	1.969	20	2500490000
7	60.00	2.362	10	2500500000
8	70.00	2.756	10	2500510000
9	80.00	3.150	10	2500520000
10	90.00	3.543	10	2500530000
11	100.00	3.937	10	2500540000
12	110.00	4.331	10	2500550000

Representative deratings curve





LUFS 10.00../180



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 180° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-4</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	57	57 5
AWG conductor	AWG	18-4	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 57 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

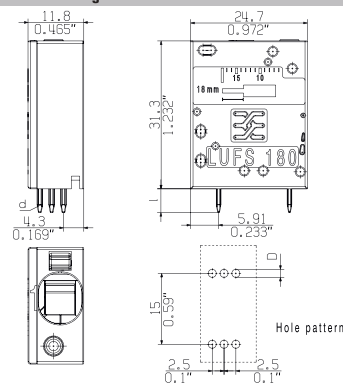
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUFS 10.00../180



Dimensioned drawing



Ordering data

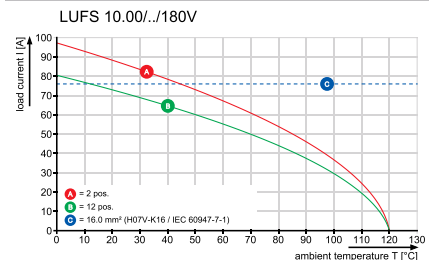
Solder pin length				5 mm
Colour				black
Pitch	10.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	50	2491810000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Representative deratings curve



LUFS 10.00/./180V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 180° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...25	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...25	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	<b>101</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600 600
Rated current	A	57	57 5
AWG conductor	AWG	18-4	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		tinned	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 101 A / 0.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 57 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

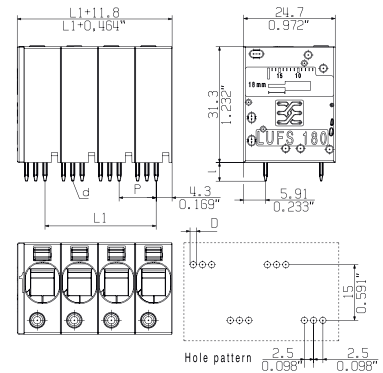
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUFS 10.00/./180V



Dimensioned drawing



Accessories

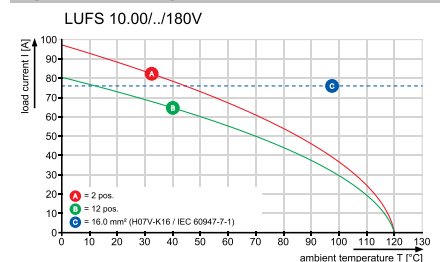
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		10.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.00	0.394	40	2492110000
3	20.00	0.787	40	2492120000
4	30.00	1.181	30	2492130000
5	40.00	1.575	25	2492140000
6	50.00	1.969	20	2492150000
7	60.00	2.362	10	2492160000
8	70.00	2.756	10	2492170000
9	80.00	3.150	10	2492180000
10	90.00	3.543	10	2492190000
11	100.00	3.937	10	2492200000
12	110.00	4.331	10	2492210000

Representative deratings curve





LUF 15.00/./../90



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup> in 15.00 mm pitch

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point, with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 90° version

Technical data

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...25	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...25	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	<b>101</b>
At ambient temperature		20°C	40°C
For conductor cross-section		III	III II
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>61</b>	<b>61 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	61	61 5
AWG conductor	AWG	18-6	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.7	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 101 A / 0.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 61 A / AWG 18 - 6



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

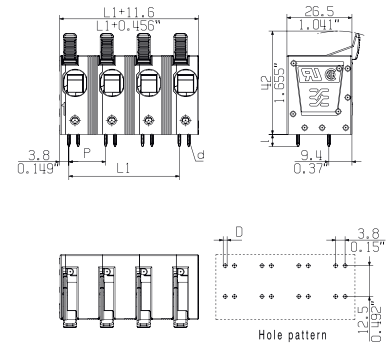
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUF 15.00/./../90



Dimensioned drawing



Accessories

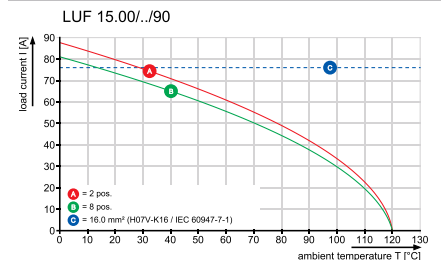
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	2491800000
3	30.00	1.181	30	2491900000
4	45.00	1.772	25	2491910000
5	60.00	2.362	20	2491920000
6	75.00	2.953	10	2491930000
7	90.00	3.543	10	2491940000
8	105.00	4.134	10	2491950000

Representative deratings curve



LUF 15.00/.. /90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup> in 15.00 mm pitch

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point, with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...25	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...25	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	<b>95.3</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>58</b>	<b>58 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>18-6</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG		18-6
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.7	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 101 A / 0.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 58 A / AWG 18 - 6



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

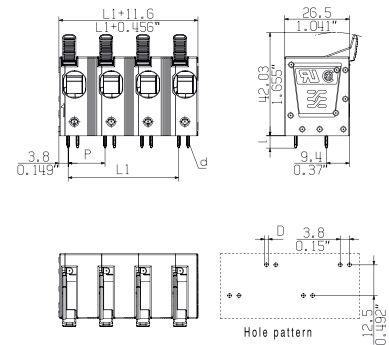
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUF 15.00/.. /90V



Dimensioned drawing



Accessories

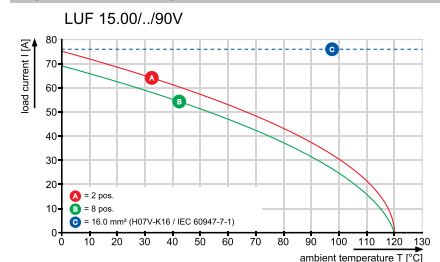
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	2492000000
3	30.00	1.181	30	2492010000
4	45.00	1.772	25	2492020000
5	60.00	2.362	20	2492030000
6	75.00	2.953	10	2492040000
7	90.00	3.543	10	2492050000
8	105.00	4.134	10	2492060000

Representative deratings curve



LUF5 15.00/./90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup> in 15.00 mm pitch

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point, with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...25	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...25	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>53</b>	<b>53 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	53	53 5
AWG conductor	AWG	18-4	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.7	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 101 A / 0.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 53 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

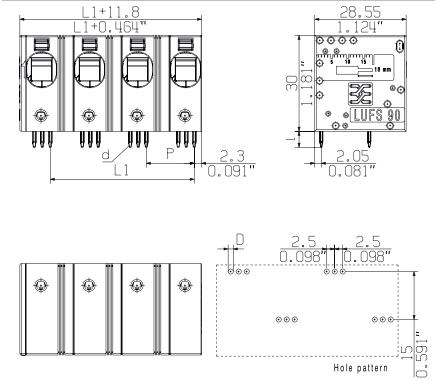
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUF5 15.00/./90V



Dimensioned drawing



Ordering data

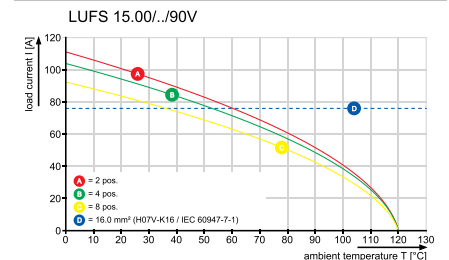
Solder pin length		5 mm		
Colour		black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	2499440000
3	30.00	1.181	30	2500570000
4	45.00	1.772	25	2500580000
5	60.00	2.362	20	2500590000
6	75.00	2.953	10	2500660000
7	90.00	3.543	10	2500600000
8	105.00	4.134	10	2500610000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Representative deratings curve



LUF5 15.00/./180V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup> in 15.00 mm pitch

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 180° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...25	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...25	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	<b>94.5</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600 600
Rated current	A	57	57 5
AWG conductor	AWG	18-4	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.7	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 101 A / 0.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 57 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

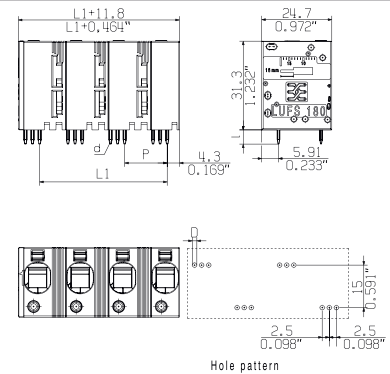
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

LUF5 15.00/./180V



Dimensioned drawing



Accessories

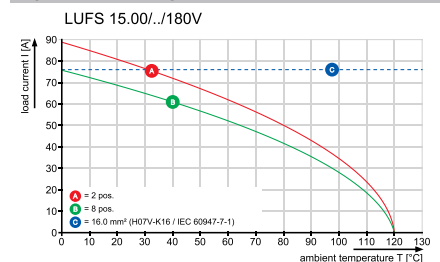
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	2749820000
	SDS 0.8X4.0X100	2749360000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length		5 mm		
Colour		black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	2491820000
3	30.00	1.181	30	2492220000
4	45.00	1.772	25	2492230000
5	60.00	2.362	20	2492240000
6	75.00	2.953	10	2492250000
7	90.00	3.543	10	2492260000
8	105.00	4.134	10	2492270000

Representative deratings curve





# OMNIMATE® Power PCB connectors

**OMNIMATE® Power  
PCB connectors**

OMNIMATE® Power	Explanation	P.2
<hr/>		
OMNIMATE® Power Hybrid	Explanation	P.4
	Quick selection	P.8
	Product selection	P.10
<hr/>		
OMNIMATE® Power IT	Explanation	P.54
	Quick selection	P.60
	Product selection	P.64
<hr/>		
OMNIMATE® Power HP to 2.5 mm <sup>2</sup> / 24 A	Explanation	P.112
	Quick selection	P.116
	Product selection	P.118
<hr/>		
OMNIMATE® Power HP to 6 mm <sup>2</sup> / 41 A	Explanation	P.138
	Quick selection	P.148
	Product selection	P.150
<hr/>		
OMNIMATE® Power HP 16 mm <sup>2</sup> / 76 A	Explanation	P.212
	Quick selection	P.218
	Product selection	P.220
<hr/>		



## OMNIMATE® Power on BOARD

### Integrated connection systems delivering innovative drive applications

The OMNIMATE® Power system excels in power electronics and drive applications because it has implemented and incorporated customer and market requirements.

Custom-fit connection solutions for power electronics – resulting from the synergy between application-oriented components, individual services and competent design-in support.

The following pages show why OMNIMATE® Power is the ideal system for power electronics and drive applications. This system has benefited from our broader perspective of component directives and our consistent implementation of requests from the market and customers.

#### Performance + Innovation

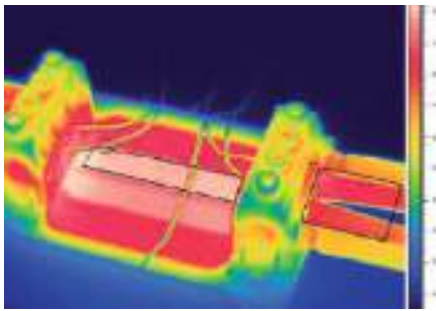
Designed with future requirements in mind whether for cars or servo-drives: hybrid design concepts create an efficient solution from two distinct elements.





**Performance + Support**

Weidmüller delivers more than just components. Our design-in competence encompassing work from design and implementation to the market release phase delivers the top results.



**An overview of OMNIMATE® Power**

The single-source solution that omits no necessary components a result of Weidmüller's technology and application expertise delivers the optimal designed-in results. The following pages describe the individual product lines in detail.



**Performance + Services**

Customised services supplement our comprehensive standard portfolio. The housing colour, printing, coding, contact surfaces, packaging and much more can be configured online with just a few mouse clicks.





# OMNIMATE® Power BV/SV 7.62HP Hybrid – for power, signals and EMC

## Three functions in one!

The OMNIMATE® Power Hybrid connector provides developers and users with the perfect three-in-one solution.

The hybrid motor connector can simultaneously connect power, signals and a pluggable EMC shield. This allows you to save space on the circuit board, on the outside of the housing and in the electrical cabinet. The self-locking one-handed interlock mechanism requires only one plugging step and thus speeds up installation and maintenance procedures. It is easy to handle and interlocks automatically – even in difficult installation positions. The unique shielding shape with 30° cable entry enables a space savings of up to 10 cm between rows.

### Unique safety

Safe, EMC-compliant shield connection for any application situation and with no risk of error.



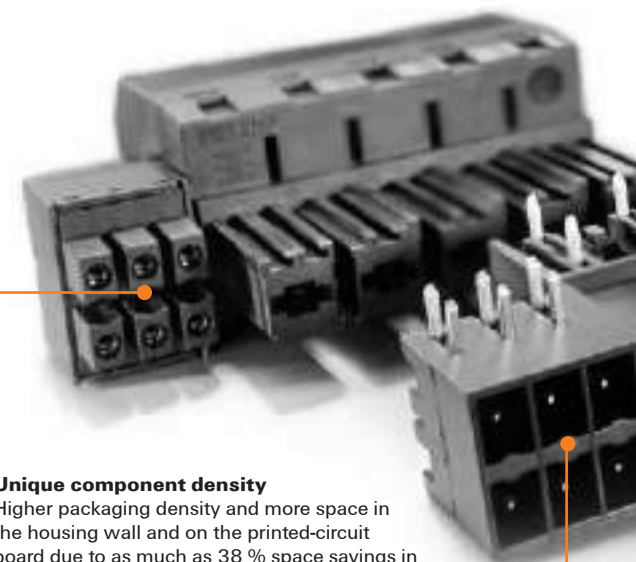
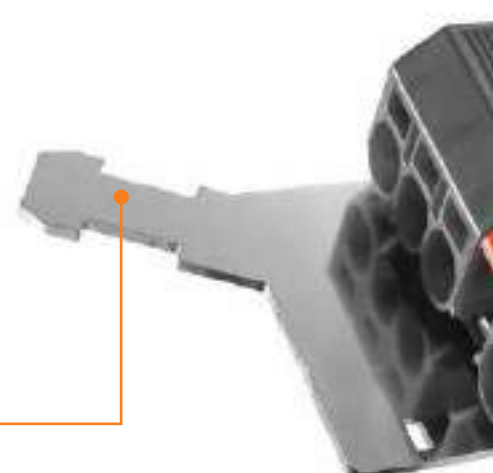
### Unique integration

Three-in-one solution: pluggable shield support, integrated signal contacts, and one-handed security flange.



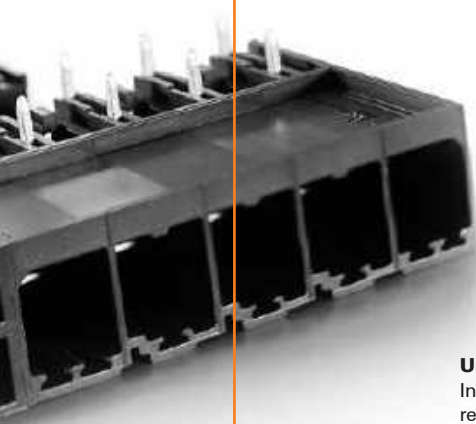
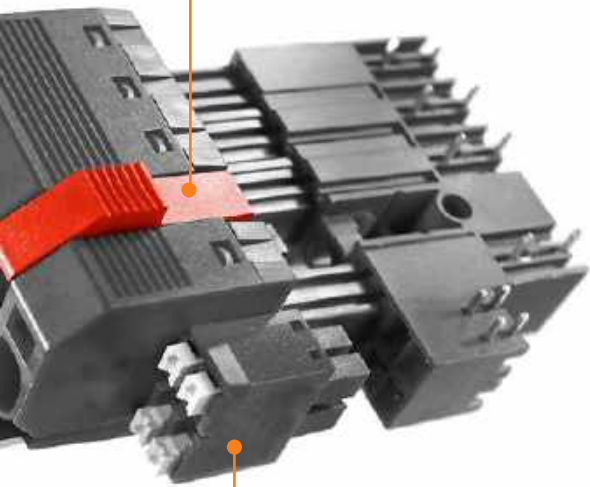
### Unique component density

Higher packaging density and more space in the housing wall and on the printed-circuit board due to as much as 38 % space savings in the construction width.



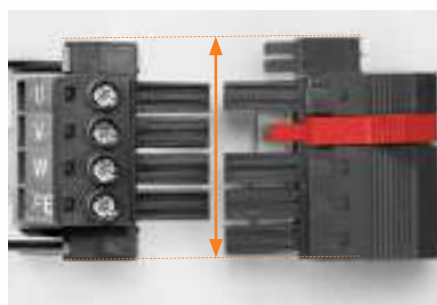
**Unique interaction**

Plug & Work with intuitive handling: featuring tool-free one-handed operation with automatic snap-in and also “blind” plugging of power, signals and shielding simultaneously.



**Unique innovation**

Integrating functions, optimising processes, and reducing complexity: The conventional 2 outer flanges have simply been replaced by 1 middle flange, 4 signal contacts and 1 pluggable shield support.



**EMC in theory and in the real world**

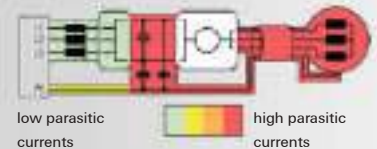
The motor feedback (signal feedback from temperature/encoder) in hybrid, shield-within-shield motor cables is usually made from over-sized power contacts or from disconnected I/O connectors. It also normally requires two separate shield connections. During installation and repairs (replacement), it is possible that the shield terminals could be incorrectly connected, left disconnected or lost. With conventional shielding, it can be quite difficult to tighten the flange screws when the connection is located at a difficult to reach location. So this step is often neglected in the real world.



**Reliably avoiding interferences**

As a result, malfunctions can then be caused by the coupling of electromagnetic fields within the sensitive electronics. The pluggable, hybrid shield support features a special EMC spring-contact strip which ensures that the shield connection to the housing is permanent, vibration-proof and covers a large surface area. It allows the shielding braid from the power and signal wires to be connected separately – and enables this to be done automatically in one step so that it is not dependent on the user.

Topology of parasitic currents



Source: Fraunhofer IZM

## OMNIMATE<sup>®</sup> Power BVF SH

### Contact EMC shielding plate for devices with plastic enclosures

#### P

For many drive technology devices, reliable contact with the EMC shielding is necessary to avoid EMC-related interference in the system. For devices with a plastic housing in the front area, the shield support is considerably more difficult to contact.

The new OMNIMATE connector BVF 7.62 Hybrid with PUSH IN connection has a pluggable shielding plate with a special EMC spring contact strip. It enables large-area, durable, and vibration-proof shield connection to the device. During the connection process, the connector attaches directly to a contact surface on the PCB. As a result, a reliable EMC cable shielding is implemented for devices with plastic enclosures.

#### Your special advantages:

- Hybrid connector with PUSH IN connection and pluggable shielding
- Current rating up to 38 A (IEC) / 35 A (UL)
- Pitch 7,62 mm / 3,81 mm
- Shielding contacts directly to a contact surface on the circuit board
- Secure fixing by central screw block

**Avoid EMC problems**

The integrated EMC shielding, when plugged in, attaches directly to a contact surface on the circuit board. Complex arrangements for cable screens on the device housing are unnecessary.



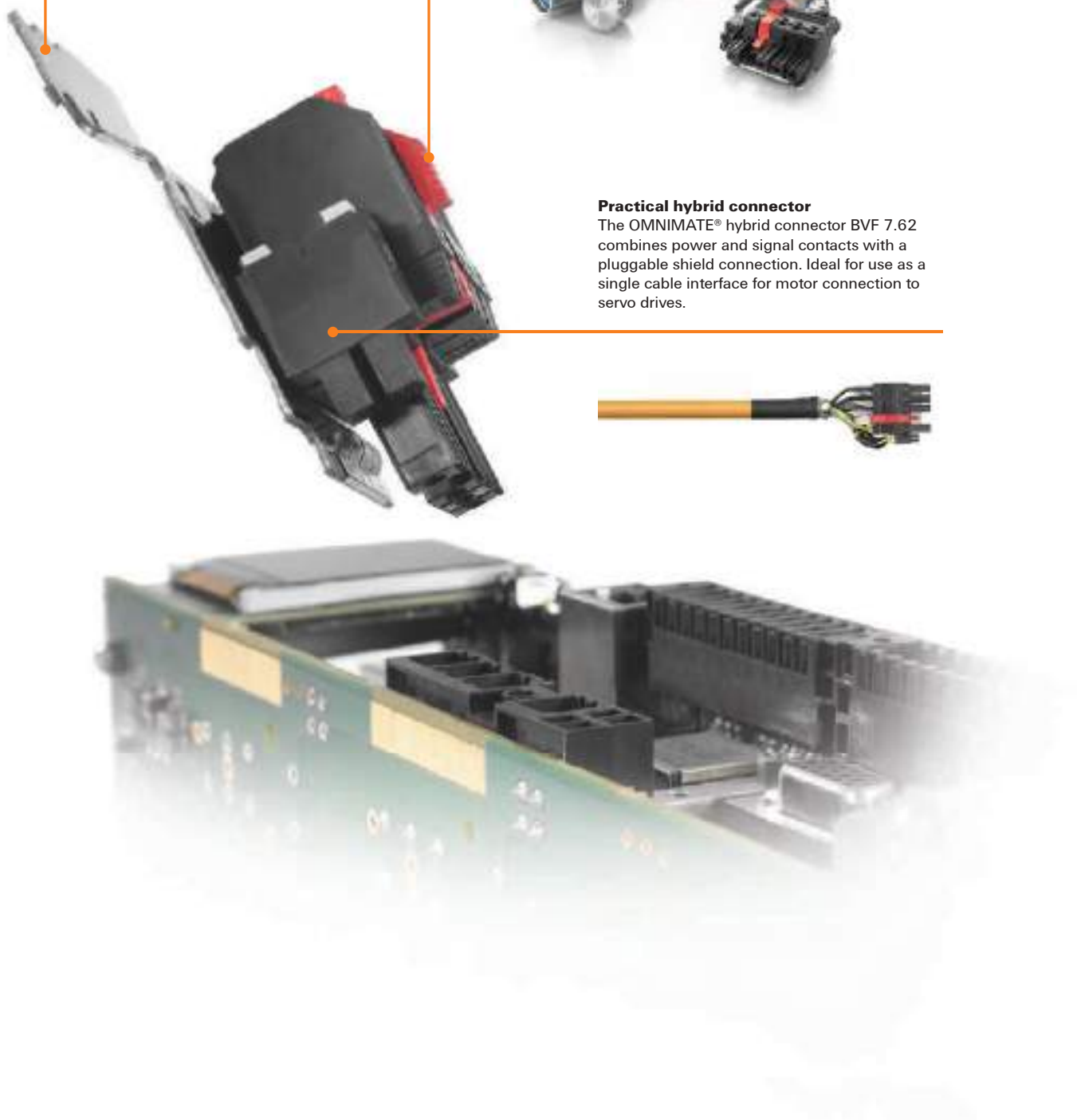
**Easy device integration**

Versions with straight or angled cable shield outlet at the connector allow variable integration. The screwable central flange lock ensures a secure and durable attachment to the device.







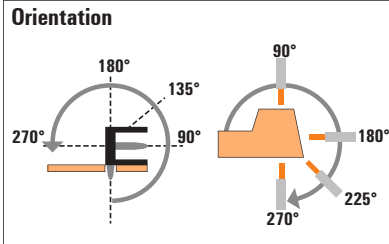
**Practical hybrid connector**

The OMNIMATE® hybrid connector BVF 7.62 combines power and signal contacts with a pluggable shield connection. Ideal for use as a single cable interface for motor connection to servo drives.



<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire

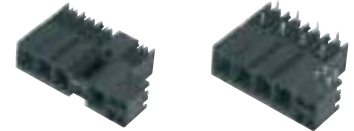


Hybrid pin header

Hybrid pin header

Solder connection

Solder connection



**BV/SV 7.62 series**



Type	SV-SMT & SC 3.81	SV & SC 3.81
Orientation	90° / 270°	90° / 270°
Flange options	G/MF/MSF	G/MF/MSF
Product code numbers	IEC: 1000V / 41A UL: 300V / 35A	IEC: 1000V / 41A UL: 200V / 35A

Hybrid female connector	PUSH IN	Type		SV-SMT & SC 3.81		SV & SC 3.81			
		Product code numbers	Flange options	Product code numbers	Flange options	Product code numbers	Flange options		
Hybrid female connector	PUSH IN		<b>BVFL &amp; BC 3.81</b>	180° (G)/MF/MSF	IEC: 1000V / 41A / 0.2-10mm <sup>2</sup> UL: 600V / 35A / AWG 24-8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
			<b>BVFL &amp; BC 3.81</b>	180° (G)/MF/MSF	IEC: 1000V / 41A / 0.2-6mm <sup>2</sup> UL: 600V / 35A / AWG 24-8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hybrid female connector	PUSH IN		<b>BVFL &amp; BC 3.81*</b>	180° (G)/MF/MSF	IEC: 1000V / 41A / 0.2-10mm <sup>2</sup> UL: 600V / 35A / AWG 24-8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
			<b>BVFL &amp; BC 3.81*</b>	180° (G)/MF/MSF	IEC: 1000V / 41A / 0.2-6mm <sup>2</sup> UL: 600V / 35A / AWG 24-8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

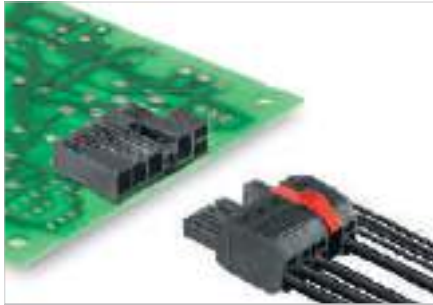
\* pluggable shield support as an accessory or fitted in advance by us

- G** = Closed (without flange)
- MF** = Centre flange for clasp
- MSF** = middle flange with screw and latching hook



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV-SMT../90 & SC 3.81**



Hybrid male header with 90° outlet direction with power and signal contacts. Fulfills the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 33 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

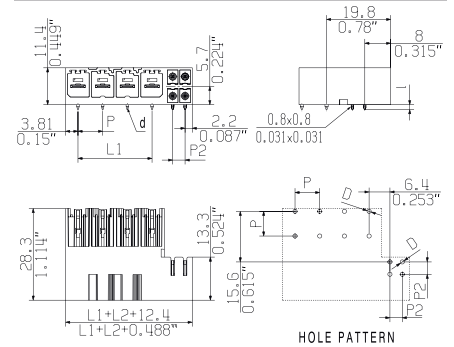
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV-SMT../90 & SC 3.81**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>33</b>	<b>33 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

**Ordering data**

Solder pin length		2.6 mm	
Colour		black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	7.62	0.300	3.81 0.150 78 <b>2528950000</b>
2 / 6	7.62	0.300	11.43 0.450 66 <b>2529030000</b>
2 / 8	7.62	0.300	11.43 0.450 60 <b>2529040000</b>
3 / 4	15.24	0.600	3.81 0.150 60 <b>2529050000</b>
3 / 6	15.24	0.600	11.43 0.450 54 <b>2529060000</b>
3 / 8	15.24	0.600	11.43 0.450 48 <b>2529070000</b>
4 / 4	22.86	0.900	3.81 0.150 48 <b>2529080000</b>
4 / 6	22.86	0.900	11.43 0.450 42 <b>2529090000</b>
4 / 8	22.86	0.900	11.43 0.450 36 <b>2529100000</b>
5 / 4	30.48	1.200	3.81 0.150 36 <b>2529110000</b>
5 / 6	30.48	1.200	11.43 0.450 36 <b>2529120000</b>
5 / 8	30.48	1.200	11.43 0.450 30 <b>2529130000</b>





SV-SMT../90 & SC 3.81 MF



Hybrid male header with 90° outlet direction with power and signal contacts. Fulfills the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

Product data

IEC: 1000 V / 41 A  
UL: 300 V / 33 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

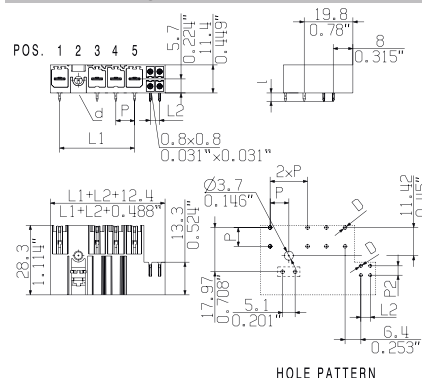
Note:

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

SV-SMT../90 & SC 3.81 MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>33</b>	<b>33 5</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

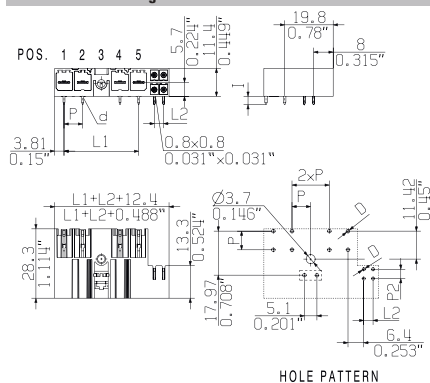
Ordering data

Solder pin length		2.6 mm	
Colour		black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	15.24	0.600	3.81 0.150 60 <b>2529000000</b>
2 / 6	15.24	0.600	7.62 0.300 54 <b>2529720000</b>
2 / 8	15.24	0.600	11.43 0.450 48 <b>2529730000</b>
3 / 4	22.86	0.900	3.81 0.150 48 <b>2529740000</b>
3 / 6	22.86	0.900	7.62 0.300 42 <b>2529750000</b>
3 / 8	22.86	0.900	11.43 0.450 36 <b>2529760000</b>
4 / 4	30.48	1.200	3.81 0.150 36 <b>2626800000</b>
4 / 6	30.48	1.200	7.62 0.300 36 <b>2626850000</b>
4 / 8	30.48	1.200	11.43 0.450 30 <b>2626860000</b>
5 / 4	38.10	1.500	3.81 0.150 30 <b>2626870000</b>
5 / 6	38.10	1.500	7.62 0.300 30 <b>2626880000</b>
5 / 8	38.10	1.500	11.43 0.450 24 <b>2626890000</b>

SV-SMT../90 & SC 3.81 MF3



Dimensioned drawing



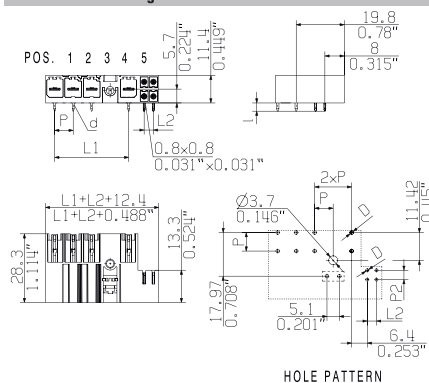
Ordering data

Solder pin length		2.6 mm		
Colour		black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150	48 <b>2529770000</b>
3/6	22.86	0.900	7.62 0.300	42 <b>2529780000</b>
3/8	22.86	0.900	11.43 0.450	36 <b>2529790000</b>
4/4	30.48	1.200	3.81 0.150	36 <b>2626900000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>2626910000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>2626920000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>2529830000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>2529840000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>2529850000</b>

SV-SMT../90 & SC 3.81 MF4



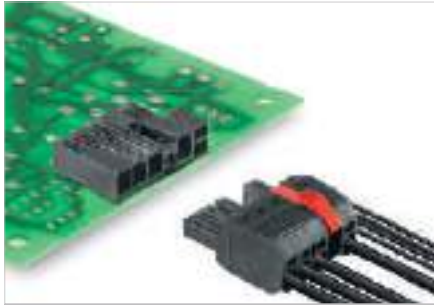
Dimensioned drawing



Ordering data

Solder pin length		2.6 mm		
Colour		black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	1.200	3.81 0.150	36 <b>2529800000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>2529810000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>2529820000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>2529860000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>2529870000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>2529880000</b>

SV-SMT../90 & SC 3.81 MSF



Hybrid male header with 90° outlet direction with power and signal contacts. Fulfills the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

Product data

IEC: 1000 V / 41 A  
UL: 300 V / 33 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

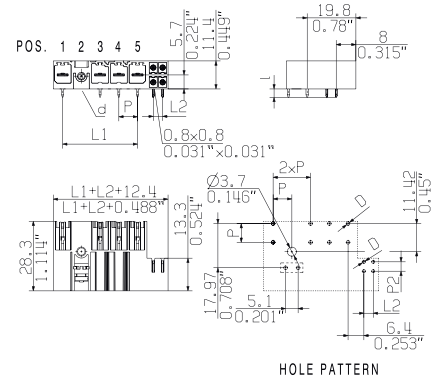
Note:

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MF2 and MSF2: X= Position of the middle flange e.g. MF2, MSF3
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

SV-SMT../90 & SC 3.81 MSF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section		III	III II
Overtoltage category		3	2 2
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>33</b>	<b>33 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



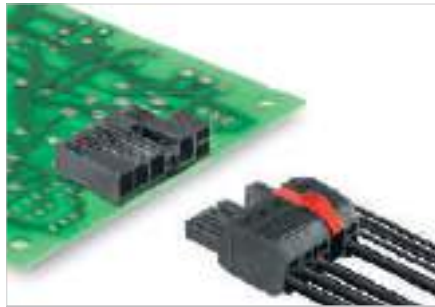
Ordering data

Solder pin length		2.6 mm	
Colour		black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	15.24	0.600	3.81 0.150 60 2529890000
2 / 6	15.24	0.600	7.62 0.300 54 2529900000
2 / 8	15.24	0.600	11.43 0.450 48 2529910000
3 / 4	22.86	0.900	3.81 0.150 48 2529920000
3 / 6	22.86	0.900	7.62 0.300 42 2529930000
3 / 8	22.86	0.900	11.43 0.450 36 2529940000
4 / 4	30.48	1.200	3.81 0.150 36 2626930000
4 / 6	30.48	1.200	7.62 0.300 36 2626940000
4 / 8	30.48	1.200	11.43 0.450 30 2626950000
5 / 4	38.10	1.500	3.81 0.150 30 2626960000
5 / 6	38.10	1.500	7.62 0.300 30 2626970000
5 / 8	38.10	1.500	11.43 0.450 24 2626980000



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV-SMT../270 & SC 3.81**



Hybrid male header with 270° outlet direction with power and signal contacts. Fulfills the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>33</b>	<b>33 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 33 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

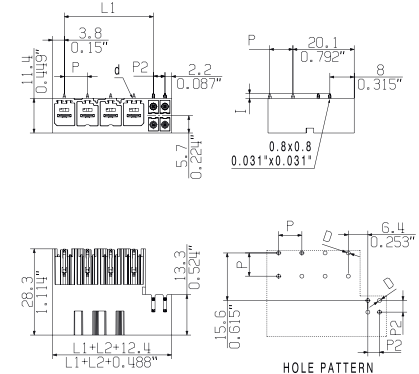
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV-SMT../270 & SC 3.81**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



**Ordering data**

Solder pin length		2.6 mm	
Colour		black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	7.62	0.300 3.81	0.150 66 <b>2528970000</b>
2 / 6	7.62	0.300 11.43	0.450 66 <b>2529260000</b>
2 / 8	7.62	0.300 11.43	0.450 60 <b>2529270000</b>
3 / 4	15.24	0.600 3.81	0.150 60 <b>2529280000</b>
3 / 6	15.24	0.600 11.43	0.450 54 <b>2529290000</b>
3 / 8	15.24	0.600 11.43	0.450 48 <b>2529300000</b>
4 / 4	22.86	0.900 3.81	0.150 48 <b>2529310000</b>
4 / 6	22.86	0.900 11.43	0.450 42 <b>2529320000</b>
4 / 8	22.86	0.900 11.43	0.450 42 <b>2529330000</b>
5 / 4	30.48	1.200 3.81	0.150 36 <b>2529340000</b>
5 / 6	30.48	1.200 11.43	0.450 36 <b>2529350000</b>
5 / 8	30.48	1.200 11.43	0.450 36 <b>2529360000</b>



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV-SMT../270 & SC 3.81 MF**



Hybrid male header with 270° outlet direction with power and signal contacts. Fulfils the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section		III	III II
Overtoltage category		3	2 2
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>33</b>	<b>33 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 33 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

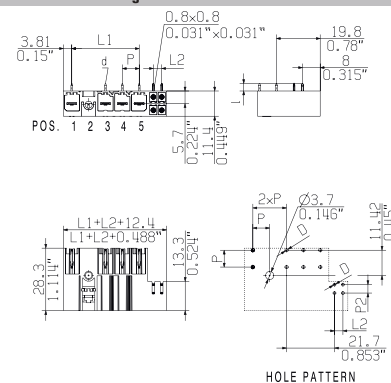
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MF2 and MSFX: X= Position of the middle flange e.g. MF2, MSF3
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV-SMT../270 & SC 3.81 MF2**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

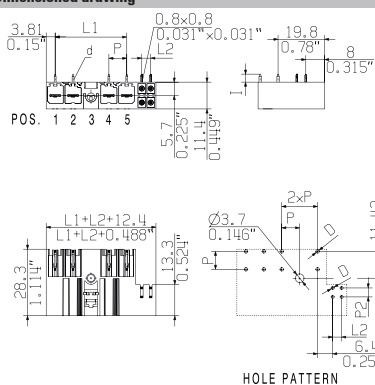
**Ordering data**

Solder pin length		2.6 mm				
Colour		black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	2529010000
2 / 6	15.24	0.600	7.62	0.300	54	2529370000
2 / 8	15.24	0.600	11.43	0.450	48	2529380000
3 / 4	22.86	0.900	3.81	0.150	48	2529390000
3 / 6	22.86	0.900	7.62	0.300	42	2529400000
3 / 8	22.86	0.900	11.43	0.450	36	2529410000
4 / 4	30.48	1.200	3.81	0.150	36	2627060000
4 / 6	30.48	1.200	7.62	0.300	36	2627090000
4 / 8	30.48	1.200	11.43	0.450	30	2627100000
5 / 4	38.10	1.500	3.81	0.150	30	2627110000
5 / 6	38.10	1.500	7.62	0.300	30	2627120000
5 / 8	38.10	1.500	11.43	0.450	24	2627130000

SV-SMT../270 & SC 3.81 MF3



Dimensioned drawing



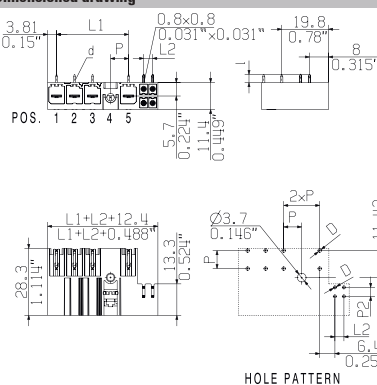
Ordering data

Solder pin length		2.6 mm		
Colour		black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150 48	2529420000
3/6	22.86	0.900	7.62 0.300 42	2529430000
3/8	22.86	0.900	11.43 0.450 36	2529440000
4/4	30.48	1.200	3.81 0.150 36	2627140000
4/6	30.48	1.200	7.62 0.300 36	2627150000
4/8	30.48	1.200	11.43 0.450 30	2627160000
5/4	38.10	1.500	3.81 0.150 30	2529480000
5/6	38.10	1.500	7.62 0.300 30	2529490000
5/8	38.10	1.500	11.43 0.450 30	2529500000

SV-SMT../270 & SC 3.81 MF4



Dimensioned drawing



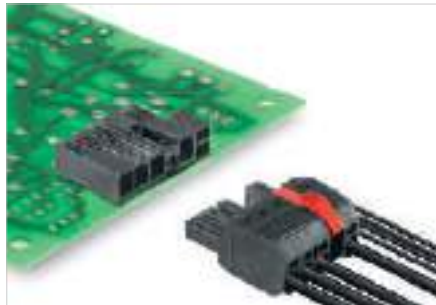
Ordering data

Solder pin length		2.6 mm		
Colour		black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	1.200	3.81 0.150 36	2529450000
4/6	30.48	1.200	7.62 0.300 36	2529460000
4/8	30.48	1.200	11.43 0.450 30	2529470000
5/4	38.10	1.500	3.81 0.150 30	2529510000
5/6	38.10	1.500	7.62 0.300 30	2529520000
5/8	38.10	1.500	11.43 0.450 30	2529530000



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV-SMT../270 & SC 3.81 MSF**



Hybrid male header with 270° outlet direction with power and signal contacts. Fulfils the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section		III	III II
Overtoltage category		3	2 2
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>33</b>	<b>33 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 33 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

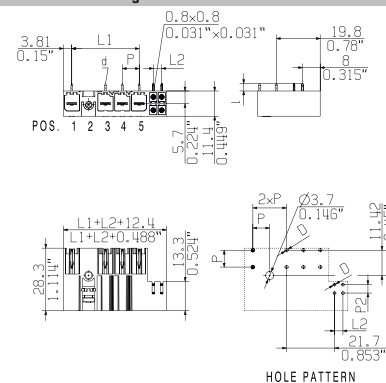
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MF2 and MSF3: X= Position of the middle flange e.g. MF2, MSF3
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV-SMT../270 & SC 3.81 MSF2**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

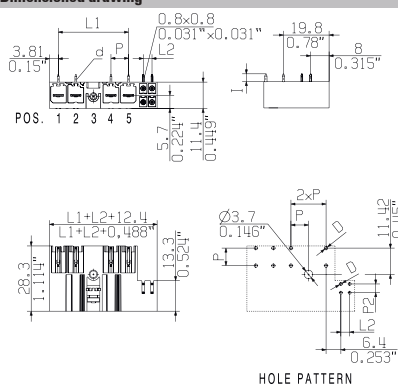
**Ordering data**

Solder pin length		2.6 mm				
Colour		black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	2529540000
2 / 6	15.24	0.600	7.62	0.300	54	2529550000
2 / 8	15.24	0.600	11.43	0.450	48	2529560000
3 / 4	22.86	0.900	3.81	0.150	48	2529570000
3 / 6	22.86	0.900	7.62	0.300	42	2529580000
3 / 8	22.86	0.900	11.43	0.450	36	2529590000
4 / 4	30.48	1.200	3.81	0.150	36	2627170000
4 / 6	30.48	1.200	7.62	0.300	36	2627180000
4 / 8	30.48	1.200	11.43	0.450	30	2627190000
5 / 4	38.10	1.500	3.81	0.150	30	2627200000
5 / 6	38.10	1.500	7.62	0.300	30	2627210000
5 / 8	38.10	1.500	11.43	0.450	24	2627220000

SV-SMT../270 & SC 3.81 MSF3



Dimensioned drawing



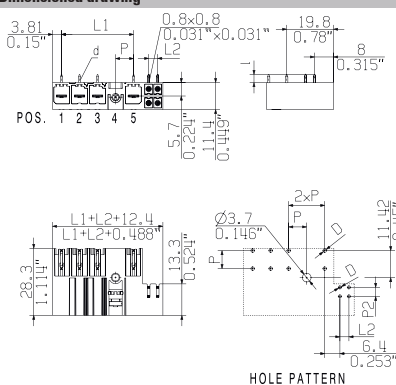
Ordering data

Solder pin length		2.6 mm					
Colour		black					
Pitch		7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.			
3/4	22.86	0.900	3.81 0.150	48	2529600000		
3/6	22.86	0.900	7.62 0.300	42	2529610000		
3/8	22.86	0.900	11.43 0.450	36	2529620000		
4/4	30.48	1.200	3.81 0.150	30	2627230000		
4/6	30.48	1.200	7.62 0.300	30	2627240000		
4/8	30.48	1.200	11.43 0.450	24	2627250000		
5/4	38.10	1.500	3.81 0.150	30	2529660000		
5/6	38.10	1.500	7.62 0.300	30	2529670000		
5/8	38.10	1.500	11.43 0.450	30	2529680000		

SV-SMT../270 & SC 3.81 MSF4



Dimensioned drawing

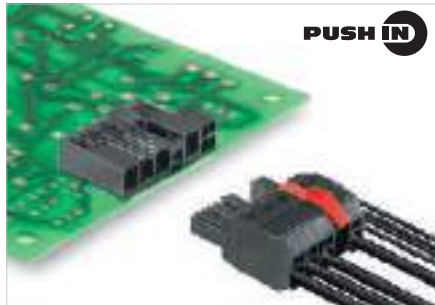


Ordering data

Solder pin length		2.6 mm					
Colour		black					
Pitch		7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.			
4/4	30.48	1.200	3.81 0.150	36	2529630000		
4/6	30.48	1.200	7.62 0.300	36	2529640000		
4/8	30.48	1.200	11.43 0.450	30	2529650000		
5/4	38.10	1.500	3.81 0.150	30	2529690000		
5/6	38.10	1.500	7.62 0.300	30	2529700000		
5/8	38.10	1.500	11.43 0.450	30	2529710000		

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../90 & SC 3.81**



**PUSH IN**

Hybrid male header with 90° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: flange, screw flange, middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

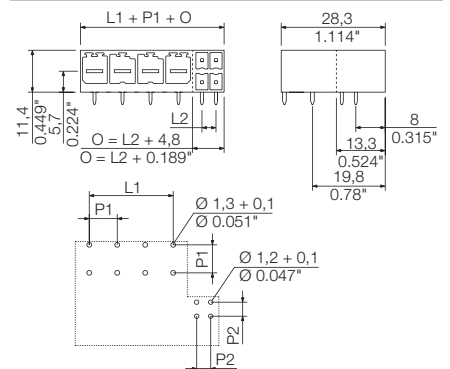
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP../90 SC../R**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

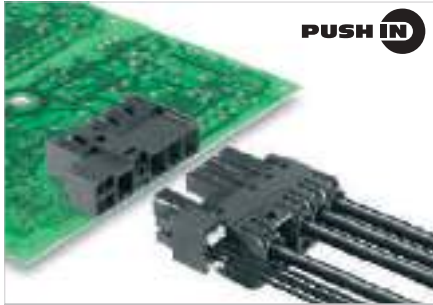
**Ordering data**

Solder pin length		3.5 mm				
Colour		black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	7.62	0.300	3.81	0.150	78	1089840000
2 / 6	7.62	0.300	7.62	0.300	66	1089920000
2 / 8	7.62	0.300	11.43	0.450	60	1157040000
3 / 4	15.24	0.600	3.81	0.150	60	1090040000
3 / 6	15.24	0.600	7.62	0.300	48	1090120000
3 / 8	15.24	0.600	11.43	0.450	48	1157050000
4 / 4	22.86	0.900	3.81	0.150	48	1090280000
4 / 6	22.86	0.900	7.62	0.300	42	1090360000
4 / 8	22.86	0.900	11.43	0.450	36	1157380000
5 / 4	30.48	1.200	3.81	0.150	36	1090520000
5 / 6	30.48	1.200	7.62	0.300	36	1090590000
5 / 8	30.48	1.200	11.43	0.450	30	1157080000



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../90 & SC 3.81MF**



**PUSH IN**

Hybrid male header with 90° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: flange, screw flange, middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

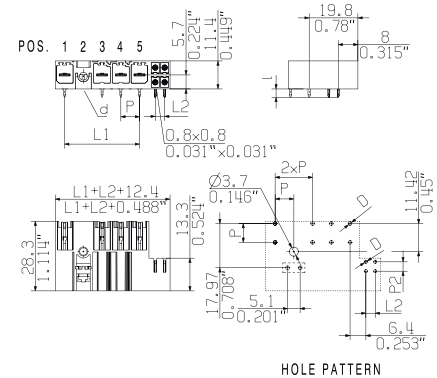
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP../90MF2. SC../R**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

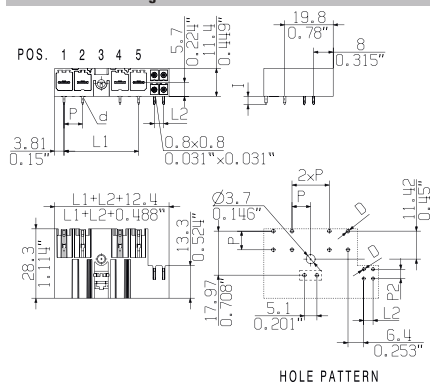
**Ordering data**

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81 0.150	60 <b>1089370000</b>
2 / 6	15.24	0.600	7.62 0.300	48 <b>1089410000</b>
2 / 8	15.24	0.600	11.43 0.450	48 <b>1156820000</b>
3 / 4	22.86	0.900	3.81 0.150	48 <b>1156230000</b>
3 / 6	22.86	0.900	7.62 0.300	42 <b>1156240000</b>
3 / 8	22.86	0.900	11.43 0.450	36 <b>1156840000</b>
4 / 4	30.48	1.200	3.81 0.150	36 <b>2627670000</b>
4 / 6	30.48	1.200	7.62 0.300	36 <b>2628150000</b>
4 / 8	30.48	1.200	11.43 0.450	30 <b>2628160000</b>
5 / 4	38.10	1.500	3.81 0.150	30 <b>2628170000</b>
5 / 6	38.10	1.500	7.62 0.300	30 <b>2628180000</b>
5 / 8	38.10	1.500	11.43 0.450	24 <b>2628190000</b>

SV 7.62HP../90MF3. SC../R



Dimensioned drawing



HOLE PATTERN

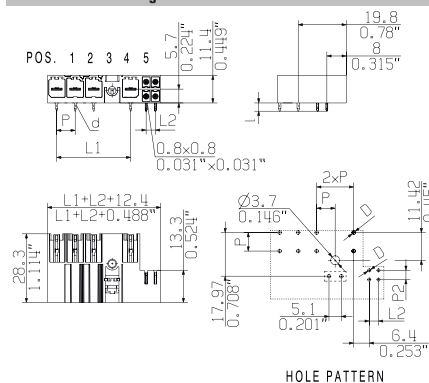
Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150	48 <b>1089660000</b>
3/6	22.86	0.900	7.62 0.300	42 <b>1089730000</b>
3/8	22.86	0.900	11.43 0.450	36 <b>1156850000</b>
4/4	30.48	1.200	3.81 0.150	36 <b>2628200000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>2628210000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>2628220000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>1156910000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>1156930000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>1156950000</b>

SV 7.62HP../90MF4. SC../R



Dimensioned drawing



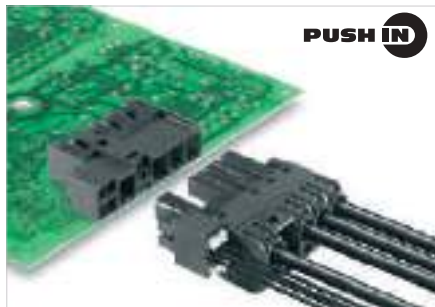
HOLE PATTERN

Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	1.200	3.81 0.150	36 <b>1090130000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>1090210000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>1156890000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>1090600000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>1090670000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>1156980000</b>

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../90 & SC 3.81MSF**



Hybrid male header with 90° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: flange, screw flange, middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

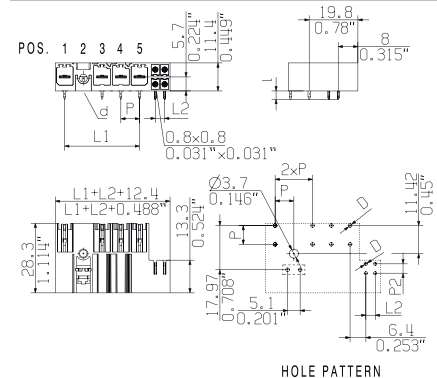
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP../90MSF2. SC../R**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

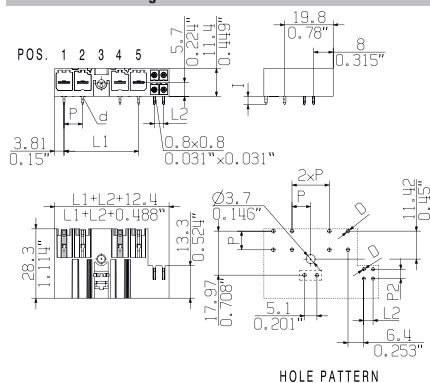
**Ordering data**

Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	15.24	0.600	3.81 0.150 60 <b>1089510000</b>
2 / 6	15.24	0.600	7.62 0.300 48 <b>1089570000</b>
2 / 8	15.24	0.600	11.43 0.450 48 <b>1156830000</b>
3 / 4	22.86	0.900	3.81 0.150 48 <b>1156250000</b>
3 / 6	22.86	0.900	7.62 0.300 42 <b>1156270000</b>
3 / 8	22.86	0.900	11.43 0.450 36 <b>1156870000</b>
4 / 4	30.48	1.200	3.81 0.150 36 <b>2628230000</b>
4 / 6	30.48	1.200	7.62 0.300 36 <b>2628240000</b>
4 / 8	30.48	1.200	11.43 0.450 30 <b>2628250000</b>
5 / 4	38.10	1.500	3.81 0.150 30 <b>2628260000</b>
5 / 6	38.10	1.500	7.62 0.300 30 <b>2628270000</b>
5 / 8	38.10	1.500	11.43 0.450 24 <b>2628280000</b>

SV 7.62HP../90MSF3.SC../R



Dimensioned drawing



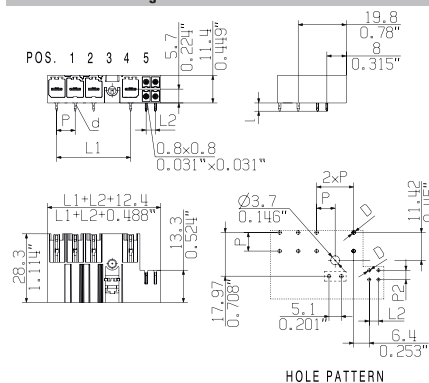
Ordering data

Solder pin length		3.5 mm					
Colour		black					
Pitch		7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.			
3/4	22.86	0.900	3.81 0.150	48	1089890000		
3/6	22.86	0.900	7.62 0.300	42	1089970000		
3/8	22.86	0.900	11.43 0.450	36	1156880000		
4/4	30.48	1.200	3.81 0.150	36	2628290000		
4/6	30.48	1.200	7.62 0.300	36	2628300000		
4/8	30.48	1.200	11.43 0.450	30	2628310000		
5/4	38.10	1.500	3.81 0.150	30	1157000000		
5/6	38.10	1.500	7.62 0.300	30	1157010000		
5/8	38.10	1.500	11.43 0.450	30	1157020000		

SV 7.62HP../90MSF4.SC../R



Dimensioned drawing

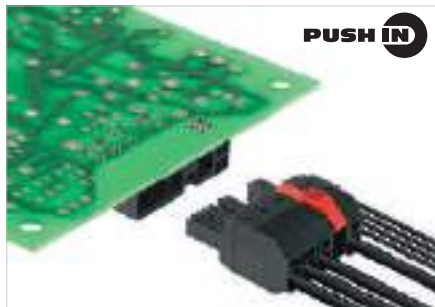


Ordering data

Solder pin length		3.5 mm					
Colour		black					
Pitch		7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.			
4/4	30.48	1.200	3.81 0.150	36	1090370000		
4/6	30.48	1.200	7.62 0.300	36	1090450000		
4/8	30.48	1.200	11.43 0.450	30	1156900000		
5/4	38.10	1.500	3.81 0.150	30	1090830000		
5/6	38.10	1.500	7.62 0.300	30	1090900000		
5/8	38.10	1.500	11.43 0.450	30	1157030000		



SV 7.62HP../270 & SC 3.81



Hybrid male header with 270° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: middle flange and middle screw flange fastening.

Product data

IEC: 1000 V / 41 A  
UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

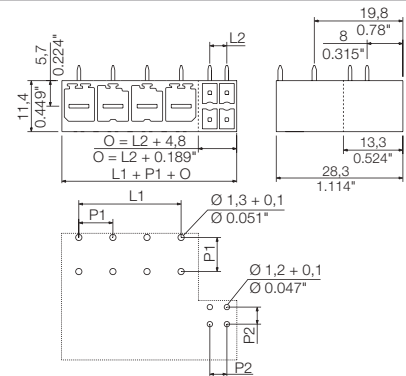
Note:

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

SV 7.62HP../270 SC../R



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

Ordering data

<b>Solder pin length</b>		<b>3.5 mm</b>				
<b>Colour</b>		<b>black</b>				
<b>Pitch</b>		<b>7.62 mm</b>				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	7.62	0.300	3.81	0.150	78	1090770000
2 / 6	7.62	0.300	7.62	0.300	66	1090850000
2 / 8	7.62	0.300	11.43	0.450	60	1156920000
3 / 4	15.24	0.600	3.81	0.150	60	1090950000
3 / 6	15.24	0.600	7.62	0.300	48	1091010000
3 / 8	15.24	0.600	11.43	0.450	48	1156940000
4 / 4	22.86	0.900	3.81	0.150	48	1091120000
4 / 6	22.86	0.900	7.62	0.300	42	1091160000
4 / 8	22.86	0.900	11.43	0.450	36	1156970000
5 / 4	30.48	1.200	3.81	0.150	36	1091240000
5 / 6	30.48	1.200	7.62	0.300	36	1091260000
5 / 8	30.48	1.200	11.43	0.450	30	1156990000



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../270 & SC 3.81MF**



Hybrid male header with 270° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

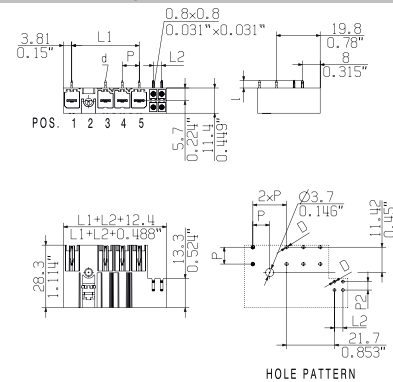
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP../270MF2. SC../R**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



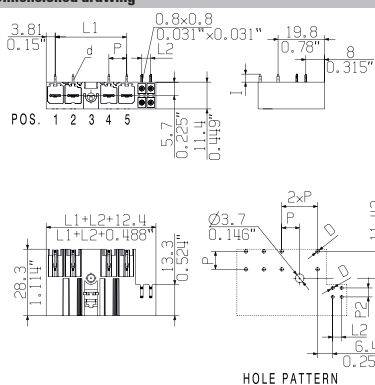
**Ordering data**

<b>Solder pin length</b>	3.5 mm					
<b>Colour</b>	black					
<b>Pitch</b>	7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	1089260000
2 / 6	15.24	0.600	7.62	0.300	48	1089280000
2 / 8	15.24	0.600	11.43	0.450	48	1156120000
3 / 4	22.86	0.900	3.81	0.150	48	1156140000
3 / 6	22.86	0.900	7.62	0.300	42	1156150000
3 / 8	22.86	0.900	11.43	0.450	36	1156170000
4 / 4	30.48	1.200	3.81	0.150	36	2627960000
4 / 6	30.48	1.200	7.62	0.300	36	2627970000
4 / 8	30.48	1.200	11.43	0.450	30	2627980000
5 / 4	38.10	1.500	3.81	0.150	30	2627990000
5 / 6	38.10	1.500	7.62	0.300	30	2628000000
5 / 8	38.10	1.500	11.43	0.450	24	2628010000

SV 7.62HP../270MF3. SC/..R



Dimensioned drawing



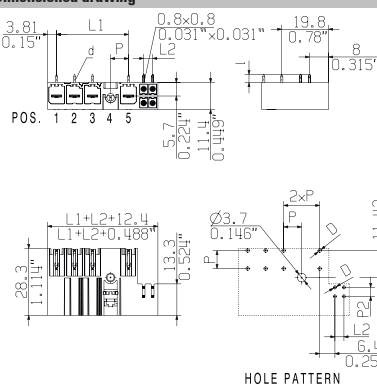
Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150	48 <b>1089440000</b>
3/6	22.86	0.900	7.62 0.300	42 <b>1089490000</b>
3/8	22.86	0.900	11.43 0.450	36 <b>1156180000</b>
4/4	30.48	1.200	3.81 0.150	36 <b>2628020000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>2628030000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>2628040000</b>
5/4	30.48	1.500	3.81 0.150	30 <b>1156300000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>1156310000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>1156320000</b>

SV 7.62HP../270MF4. SC/..R



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	0.900	3.81 0.150	36 <b>1089820000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>1089910000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>1156280000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>1090300000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>1090380000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>1156340000</b>

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../270 & SC 3.81MSF**



Hybrid male header with 270° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

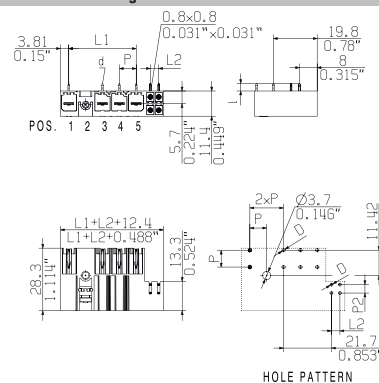
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MF2 and MSF2: X= Position of the middle flange e.g. MF2, MSF3
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP../270MSF2, SC../R**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

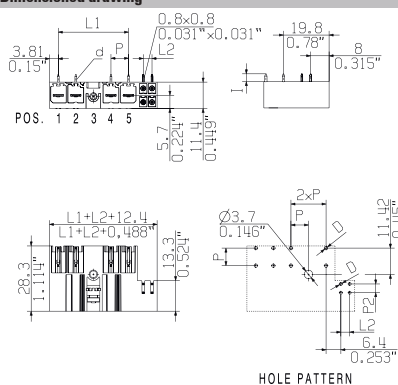
**Ordering data**

<b>Solder pin length</b>	3.5 mm					
<b>Colour</b>	black					
<b>Pitch</b>	7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	1089340000
2 / 6	15.24	0.600	7.62	0.300	48	1089380000
2 / 8	15.24	0.600	11.43	0.450	48	1156130000
3 / 4	22.86	0.900	3.81	0.150	48	1156190000
3 / 6	22.86	0.900	7.62	0.300	42	1156200000
3 / 8	22.86	0.900	11.43	0.450	36	1156210000
4 / 4	30.48	1.200	3.81	0.150	36	2628050000
4 / 6	30.48	1.200	7.62	0.300	36	2628060000
4 / 8	30.48	1.200	11.43	0.450	30	2628070000
5 / 4	38.10	1.500	3.81	0.150	30	2628080000
5 / 6	38.10	1.500	7.62	0.300	30	2628090000
5 / 8	38.10	1.500	11.43	0.450	24	2628100000

SV 7.62HP../270MSF3. SC/..R



Dimensioned drawing



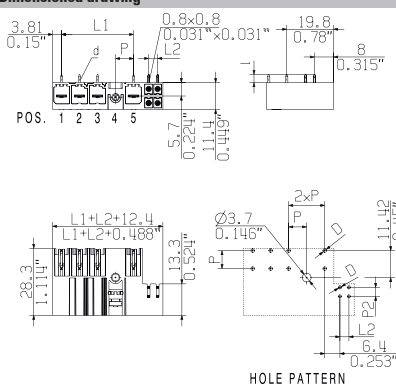
Ordering data

Solder pin length		3.5 mm					
Colour		black					
Pitch		7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.			
3/4	22.86	0.900	3.81 0.150	48	1089610000		
3/6	22.86	0.900	7.62 0.300	42	1089670000		
3/8	22.86	0.900	11.43 0.450	36	1156220000		
4/4	30.48	1.200	3.81 0.150	36	2628110000		
4/6	30.48	1.200	7.62 0.300	36	2628120000		
4/8	30.48	1.200	11.43 0.450	30	2628130000		
5/4	38.10	1.500	3.81 0.150	30	1156370000		
5/6	38.10	1.500	7.62 0.300	30	1156390000		
5/8	38.10	1.500	11.43 0.450	30	1156410000		

SV 7.62HP../270MSF4. SC/..R



Dimensioned drawing

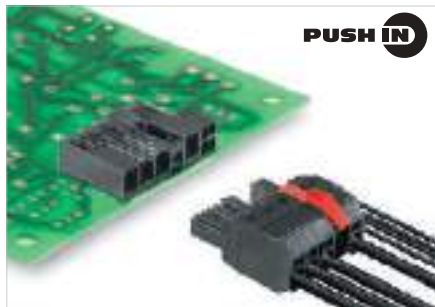


Ordering data

Solder pin length		3.5 mm					
Colour		black					
Pitch		7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.			
4/4	30.48	1.200	3.81 0.150	36	1090060000		
4/6	30.48	1.200	7.62 0.300	36	1090140000		
4/8	30.48	1.200	11.43 0.450	30	1156290000		
5/4	38.10	1.500	3.81 0.150	30	1090540000		
5/6	38.10	1.500	7.62 0.300	30	1090610000		
5/8	38.10	1.500	11.43 0.450	30	1156430000		

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180 & BCF 3.81**



**PUSH IN**

Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

**Product data**

IEC: 1000 V / 38 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

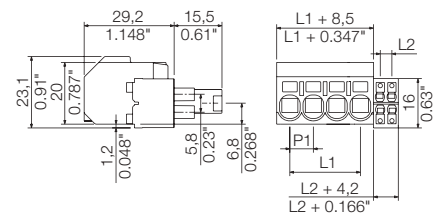
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVF 7.62HP../180 BCF../R**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

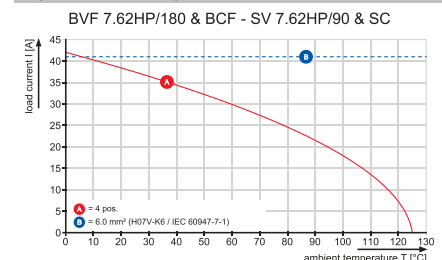
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	<b>1937590000</b>
<b>Screwdriver</b>	
SDS 0.8X4.5X125	<b>2749370000</b>
<b>Pressing tool</b>	
PZ 6/5	<b>9011460000</b>

**Ordering data**

Solder pin length						
Colour	<b>black</b>					
Pitch	<b>7.62 mm</b>					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	7.62	0.300	3.81	0.150	65	<b>1080550000</b>
2 / 6	7.62	0.300	7.62	0.300	55	<b>1080320000</b>
2 / 8	7.62	0.300	11.43	0.450	50	<b>1156440000</b>
3 / 4	15.24	0.600	3.81	0.150	50	<b>1080490000</b>
3 / 6	15.24	0.600	7.62	0.300	45	<b>1080570000</b>
3 / 8	15.24	0.600	11.43	0.450	40	<b>1156450000</b>
4 / 4	22.86	0.900	3.81	0.150	40	<b>1080510000</b>
4 / 6	22.86	0.900	7.62	0.300	35	<b>1080440000</b>
4 / 8	22.86	0.900	11.43	0.450	30	<b>1156470000</b>
5 / 8	30.48	1.200	11.43	0.450	25	<b>1156480000</b>

**Representative deratings curve**

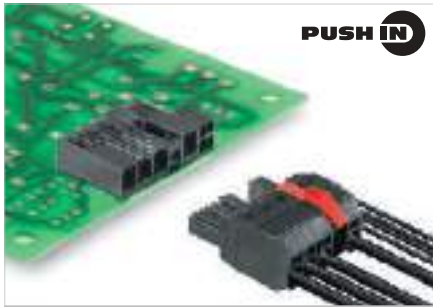






**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180MF & BCF 3.81**



**PUSH IN**

Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 38 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

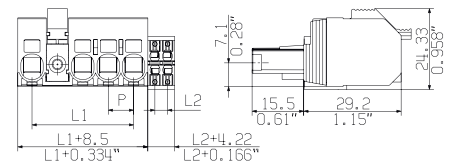
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVF 7.62HP../180MF2, BCF../R**



**Dimensioned drawing**



**Accessories**

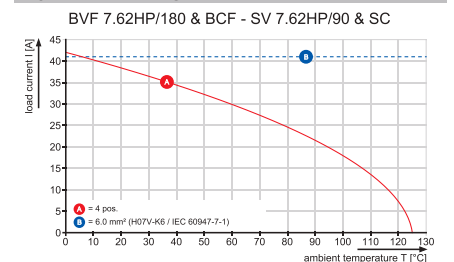
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Shielding		
	BVF 7.62HP SH150 4-6 KIT	1118480000
	BVF 7.62HP SH180 4-6 KIT	1118470000
	BVF 7.62HP SH210 4-6 KIT	1118490000
Screwdriver		
	SDS 0.8X4.5X125	2749370000
Pressing tool		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length						
Colour					black	
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	50	1081610000
2 / 6	15.24	0.600	7.62	0.300	45	1081030000
2 / 8	15.24	0.600	11.43	0.450	40	1157090000
3 / 4	22.86	0.900	3.81	0.150	40	1157110000
3 / 6	22.86	0.900	7.62	0.300	35	1157120000
3 / 8	22.86	0.900	11.43	0.450	30	1157130000
4 / 4	30.48	1.200	3.81	0.150	30	2628320000
4 / 6	30.48	1.200	7.62	0.300	30	2628340000
4 / 8	30.48	1.200	11.43	0.450	25	2628350000
5 / 4	38.10	1.500	3.81	0.150	30	2628390000
5 / 6	38.10	1.500	7.62	0.300	30	2628400000
5 / 8	38.10	1.500	11.43	0.450	25	2628410000

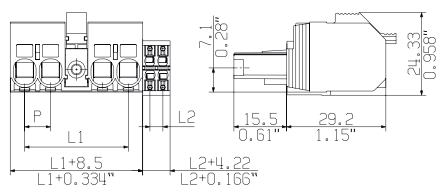
**Representative deratings curve**



**BVF 7.62HP../180MF3. BCF/..R**



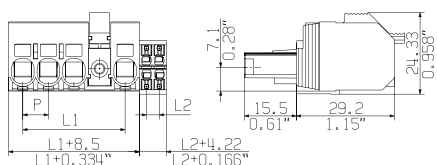
Dimensioned drawing



**BVF 7.62HP../180MF4. BCF/..R**



Dimensioned drawing



**Ordering data**

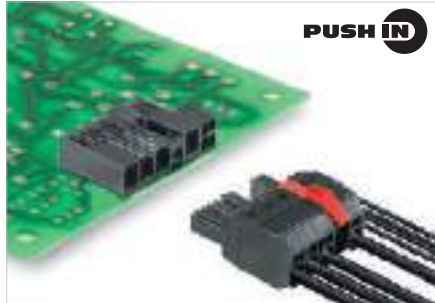
Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
3/4	22.86	0.900	3.81	0.150	40	<b>1081630000</b>
3/6	22.86	0.900	7.62	0.300	35	<b>1081720000</b>
3/8	22.86	0.900	11.43	0.450	30	<b>1157170000</b>
4/4	30.48	1.200	3.81	0.150	36	<b>2628450000</b>
4/6	30.48	1.200	7.62	0.300	30	<b>2628460000</b>
4/8	30.48	1.200	11.43	0.450	25	<b>2628470000</b>
5/4	38.10	1.500	3.81	0.150	25	<b>1157220000</b>
5/6	38.10	1.500	7.62	0.300	25	<b>1157230000</b>
5/8	38.10	1.500	11.43	0.450	25	<b>1157240000</b>

**Ordering data**

Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4/4	30.48	1.200	3.81	0.150	30	<b>1081150000</b>
4/6	30.48	1.200	7.62	0.300	30	<b>1082020000</b>
4/8	30.48	1.200	11.43	0.450	25	<b>1157200000</b>
5/4	38.10	1.500	3.81	0.150	25	<b>1082140000</b>
5/6	38.10	1.500	7.62	0.300	25	<b>1081760000</b>
5/8	38.10	1.500	11.43	0.450	25	<b>1157250000</b>

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180MSF & BCF 3.81**



Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 38 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

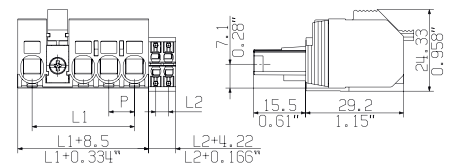
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVF 7.62HP../180MSF2. BCF../R**



**Dimensioned drawing**



**Accessories**

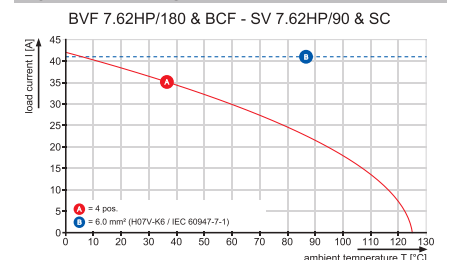
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Shielding</b>	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	2749370000
<b>Pressing tool</b>	
PZ 6/5	9011460000

**Ordering data**

Solder pin length						
Colour					black	
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	50	1081930000
2 / 6	15.24	0.600	7.62	0.300	45	1082080000
2 / 8	15.24	0.600	11.43	0.450	40	1157100000
3 / 4	22.86	0.900	3.81	0.150	40	1157440000
3 / 6	22.86	0.900	7.62	0.300	35	1157450000
3 / 8	22.86	0.900	11.43	0.450	30	1157470000
4 / 4	30.48	1.200	3.81	0.150	36	2628510000
4 / 6	30.48	1.200	7.62	0.300	36	2628520000
4 / 8	30.48	1.200	11.43	0.450	25	2628530000
5 / 4	38.10	1.500	3.81	0.150	30	2628570000
5 / 6	38.10	1.500	7.62	0.300	30	2628580000
5 / 8	38.10	1.500	11.43	0.450	25	2628590000

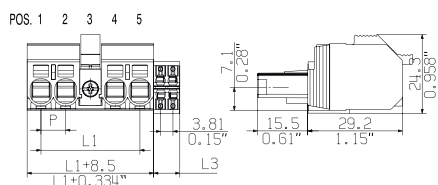
**Representative deratings curve**



**BVF 7.62HP../180MSF3. BCF../R**



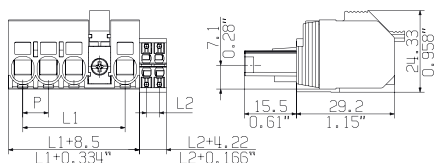
Dimensioned drawing



**BVF 7.62HP../180MSF4. BCF../R**



Dimensioned drawing



**Ordering data**

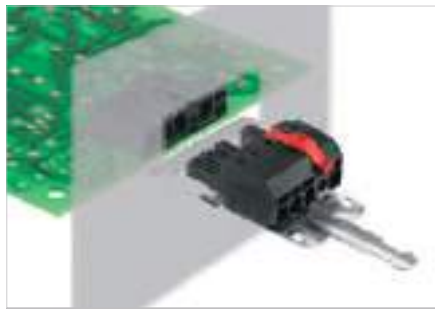
Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)		Qty.	Order No.	
3/4	22.86	0.900	3.81	0.150	40	<b>1082110000</b>
3/6	22.86	0.900	7.62	0.300	35	<b>1081730000</b>
3/8	22.86	0.900	11.43	0.450	30	<b>1157190000</b>
4/4	30.48	1.200	3.81	0.150	36	<b>2628630000</b>
4/6	30.48	1.200	7.62	0.300	30	<b>2628640000</b>
4/8	30.48	1.200	11.43	0.450	25	<b>2628650000</b>
5/4	38.10	1.500	3.81	0.150	25	<b>1157270000</b>
5/6	38.10	1.500	7.62	0.300	25	<b>1157280000</b>
5/8	38.10	1.500	11.43	0.450	25	<b>1157290000</b>

**Ordering data**

Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)		Qty.	Order No.	
4/4	30.48	1.200	3.81	0.150	30	<b>1081660000</b>
4/6	30.48	1.200	7.62	0.300	30	<b>1081750000</b>
4/8	30.48	1.200	11.43	0.450	25	<b>1157210000</b>
5/4	38.10	1.500	3.81	0.150	25	<b>1080940000</b>
5/6	38.10	1.500	7.62	0.300	25	<b>1080720000</b>
5/8	38.10	1.500	11.43	0.450	25	<b>1157300000</b>

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180 BCF 3.81 SH**



Hybrid female connector with power and signal contacts with PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature	20°C		40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overtolerance category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 800</b>
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)			
<b>Rated voltage</b>		<b>B</b>	<b>C D</b>
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
CSA (Use Group)			
Rated voltage		<b>B</b>	<b>C D</b>
Rated current			
AWG conductor	AWG		
General data			
Type of insulation material			
UL 94 flammability rating			
Contact base material			
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 800 V / 38 A / 0.5 - 10 mm<sup>2</sup>  
 UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

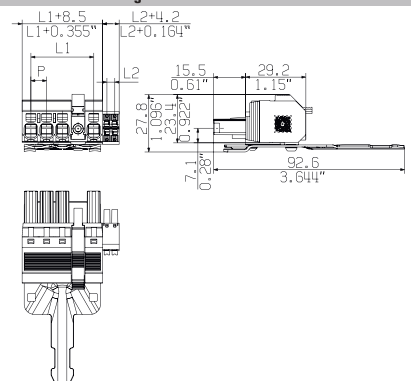
- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVF 7.62HP../180MF BCF SH180**



**UL 600 V**

**Dimensioned drawing**



**Ordering data**

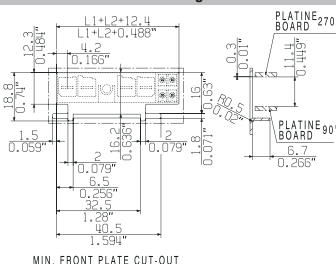
Solder pin length						
Colour	black					
Pitch	7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4 / 4	30.48	1.200	3.81	0.150	20	2681760000

**Accessories**

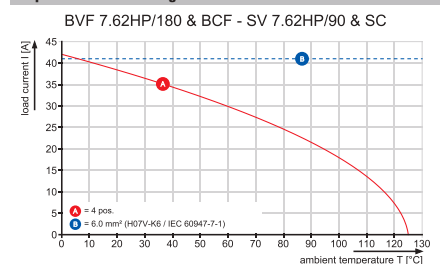
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Pressing tool</b>	
PZ 6/5	9011460000
<b>Screwdriver</b>	
SDS 0.6X3.5X100	2749340000
<b>Marking tags</b>	
SCT 4.6/127 C	1699800000
WSM TOOL AUTOMATIK	1774470000

**Representative dimensional drawing**



**Representative deratings curve**

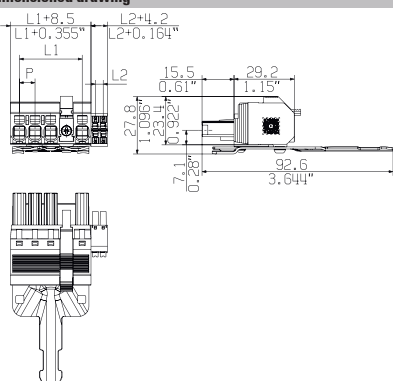


**BVF 7.62HP/./180MSF BCF SH180**



**UL  
600V**

**Dimensioned drawing**

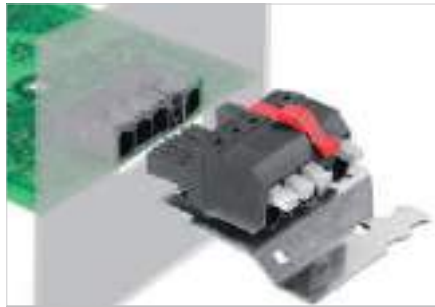


**Ordering data**

<b>Solder pin length</b>						
<b>Colour</b>						<b>black</b>
<b>Pitch 7.62 mm</b>						
<b>Poles</b>	<b>L1</b>	<b>(inch)</b>	<b>L2</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4 / 4	30.48	1.200	3.81	0.150	20	<b>2681780000</b>

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180 BCF 3.81 SP**



Hybrid female connector with power and signal contacts with PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

The pluggable shield connection has a wide contact area on the PCB and does not need to be bolted.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature	20°C		40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 800</b>
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)			
<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>	-	
CSA (Use Group)			
Rated voltage			
Rated current			
AWG conductor	AWG	-	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 800 V / 38 A / 0.5 - 10 mm<sup>2</sup>  
 UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

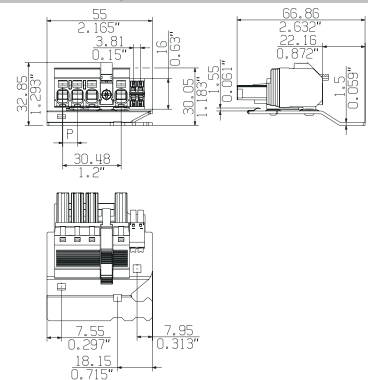
- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVF 7.62HP../180MSF BCF SP90**



**UL 600 V**

**Dimensioned drawing**



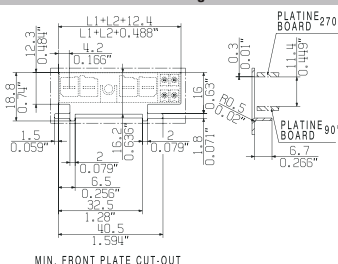
**Ordering data**

Solder pin length						
Colour	black					
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4 / 4	30.48	1.200	3.81	0.150	24	2614040000

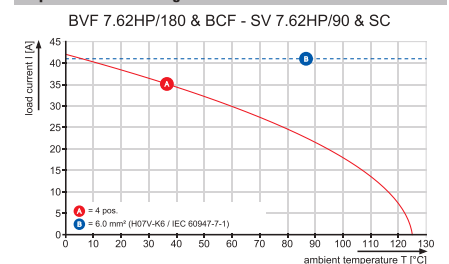
**Accessories**

<b>Note:</b> Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Pressing tool		
	PZ 6/5	9011460000
Screwdriver		
	SDS 0.6X3.5X100	2749340000
Marking tags		
	SCT 4.6/127 C	1699800000
	WSM TOOL AUTOMATIK	1774470000

**Representative dimensional drawing**



**Representative deratings curve**

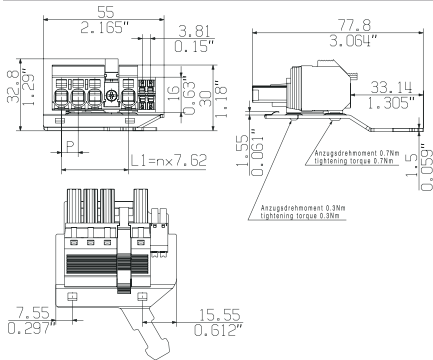


**BVF 7.62HP../180MSF BCF SP150**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

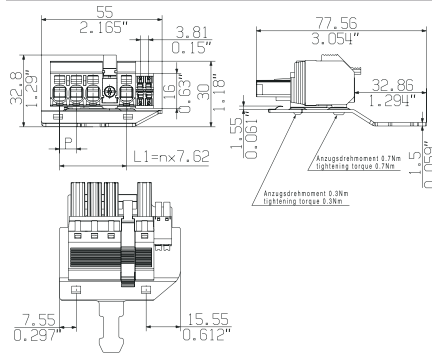
<b>Solder pin length</b>						
<b>Colour</b>						<b>black</b>
<b>Pitch</b>						<b>7.62 mm</b>
<b>Poles</b>	<b>L1</b>	<b>(inch)</b>	<b>L2</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4/4	30.48	1.200	3.81	0.150	14	<b>2669590000</b>

**BVF 7.62HP../180MSF BCF SP180**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

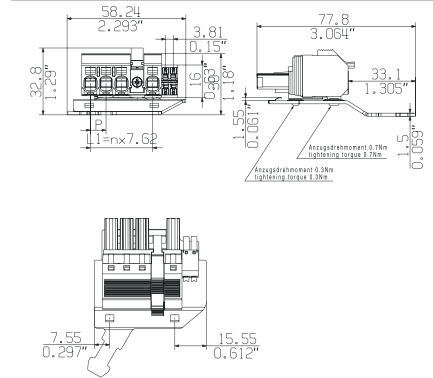
<b>Solder pin length</b>						
<b>Colour</b>						<b>black</b>
<b>Pitch</b>						<b>7.62 mm</b>
<b>Poles</b>	<b>L1</b>	<b>(inch)</b>	<b>L2</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4/4	30.48	1.200	3.81	0.150	14	<b>2633380000</b>

**BVF 7.62HP../180MSF BCF SP210**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

<b>Solder pin length</b>						
<b>Colour</b>						<b>black</b>
<b>Pitch</b>						<b>7.62 mm</b>
<b>Poles</b>	<b>L1</b>	<b>(inch)</b>	<b>L2</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4/4	30.48	1.200	3.81	0.150	14	<b>2669610000</b>



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP../180 BCF 3.81**



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	mm <sup>2</sup>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 38 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

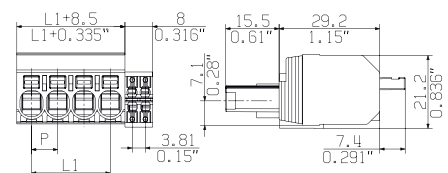
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVFL 7.62HP../180 BCF 3.81**



**Dimensioned drawing**



**Accessories**

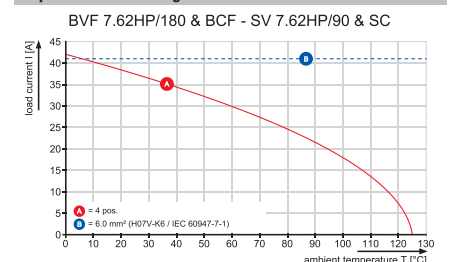
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	2749370000
<b>Pressing tool</b>		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	7.62	0.300	3.81	0.150	72	2549310000
3 / 4	15.24	0.600	3.81	0.150	60	2549400000
3 / 6	15.24	0.600	7.62	0.300	54	2549410000
3 / 8	15.24	0.600	11.43	0.450	48	2549420000
4 / 4	22.86	0.900	3.81	0.150	48	1547560000
4 / 6	30.48	1.200	7.62	0.300	42	2549430000
4 / 8	30.48	1.200	11.43	0.450	42	2549440000
5 / 4	30.48	1.200	3.81	0.150	42	2549450000

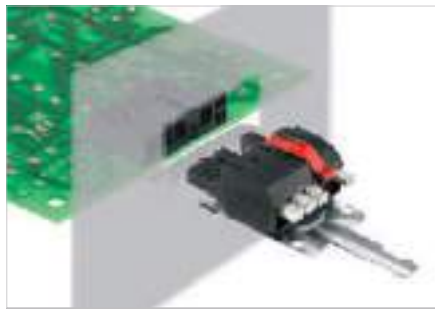
**Representative deratings curve**





**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP../180 BCF 3.81 SH**



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>34</b>	
At ambient temperature	20°C	40°C	
For conductor cross-section			
Overvoltage category	III	III	II
Pollution severity	3	2	2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 800</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>	-	
<b>CSA (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>

Rated voltage			
Rated current			
AWG conductor	<b>AWG</b>	-	

<b>General data</b>			
Type of insulation material			
UL 94 flammability rating			
Contact base material			
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 800 V  
 UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

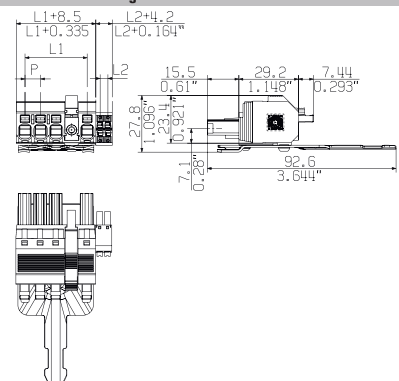
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVFL 7.62HP../180 BCF 3.81 MF SH**



**Dimensioned drawing**



**Ordering data**

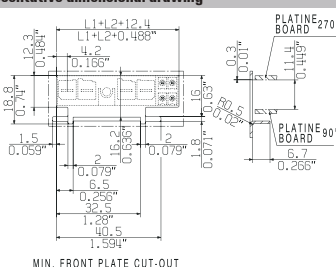
<b>Solder pin length</b>						
<b>Colour</b>						
<b>Pitch</b>	<b>7.62 mm</b>					
<b>Poles</b>	<b>L1</b>	<b>(inch)</b>	<b>L2</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4 / 4	30.48	1.200	3.81	0.150	20	<b>2427960000</b>

**Accessories**

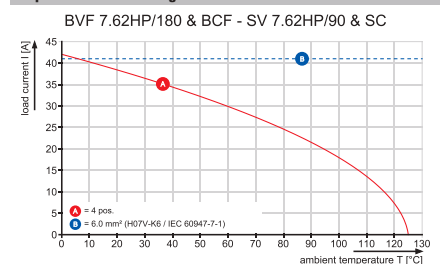
**Note:** Refer to the Accessories chapter for additional accessories.

<b>Coding</b>	<b>Order No.</b>
BV/SV 7.62HP K0	<b>1937590000</b>
<b>Pressing tool</b>	
PZ 6/5	<b>9011460000</b>
<b>Screwdriver</b>	
SDS 0.6X3.5X100	<b>2749340000</b>
<b>Marking tags</b>	
SCT 4.6/127 C	<b>1699800000</b>
WSM TOOL AUTOMATIK	<b>1774470000</b>

**Representative dimensional drawing**



**Representative deratings curve**

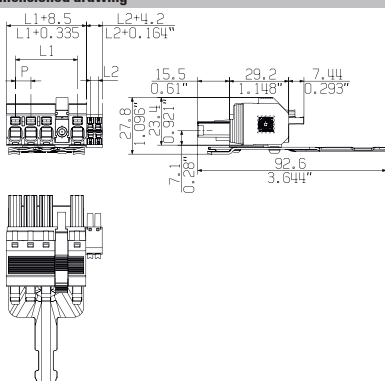


**BVFL 7.62HP/./180 BCF 3.81 MSF SH**



**UL  
600V**

**Dimensioned drawing**

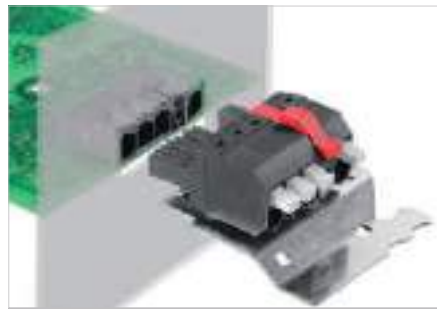


**Ordering data**

<b>Solder pin length</b>						
<b>Colour</b>						<b>black</b>
<b>Pitch 7.62 mm</b>						
<b>Poles</b>	<b>L1</b>	<b>(inch)</b>	<b>L2</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4 / 4	30.48	1.200	3.81	0.150	20	<b>2681770000</b>

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP../180 BCF 3.81 SP**



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature	20°C	40°C	
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 800</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>			
<b>Rated voltage</b>		<b>B</b>	<b>C D</b>
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>			
<b>Rated voltage</b>		<b>B</b>	<b>C D</b>
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 800 V / 38 A / 0.5 - 6 mm<sup>2</sup>  
 UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

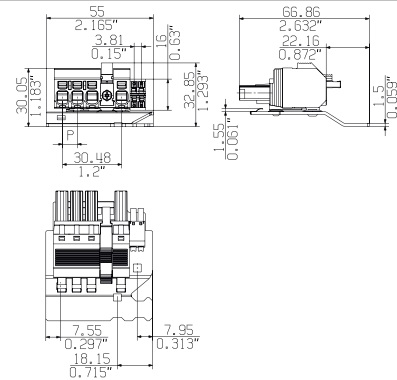
- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVFL 7.62HP../180MSF4 BCF SP 90**



**UL 600 V**

**Dimensioned drawing**



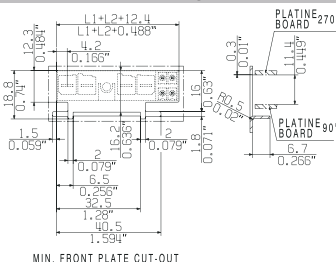
**Ordering data**

<b>Solder pin length</b>						
<b>Colour</b>	<b>black</b>					
<b>Pitch</b>	<b>7.62 mm</b>					
<b>Poles</b>	<b>L1</b>	<b>(inch)</b>	<b>L2</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4 / 4	30.48	1.200	3.81	0.150	24	2633400000

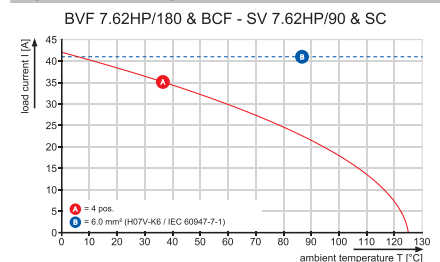
**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

**Representative dimensional drawing**



**Representative deratings curve**

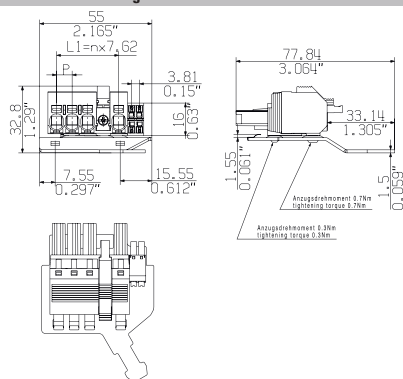


**BVFL 7.62HP../180MSF4 BCF SP 150**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

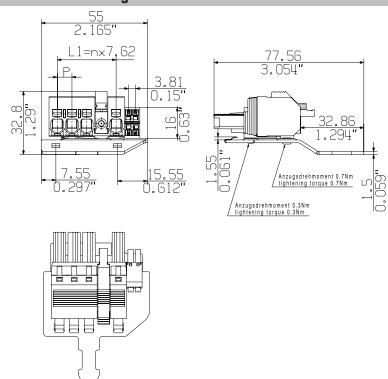
Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4 / 4	30.48	1.200	3.81	0.150	24	2669600000

**BVFL 7.62HP../180MSF4 BCF SP 180**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

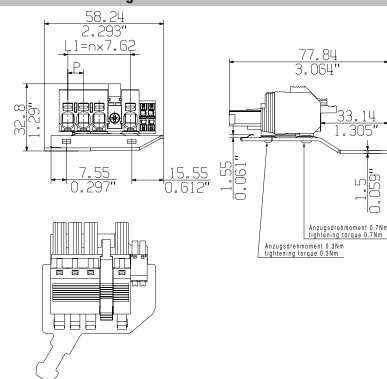
Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4 / 4	30.48	1.200	3.81	0.150	24	2633390000

**BVFL 7.62HP../180MSF4 BCF SP 210**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4 / 4	30.48	1.200	3.81	0.150	14	2669620000

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP/./180 BCF 3.81 MF**



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

**Product data**

IEC: 1000 V / 38 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

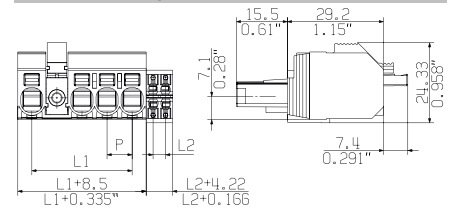
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVFL 7.62HP/./180 BCF 3.81 MF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature	20°C		40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

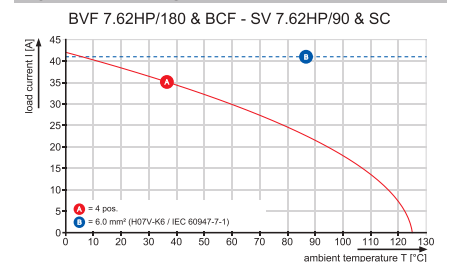
**Accessories**

Note: Refer to the Accessories chapter for additional accessories.			
Coding		Order No.	
	BV/SV 7.62HP K0	<b>1937590000</b>	
<b>Shielding</b>			
	BVF 7.62HP SH150 4-6 KIT	<b>1118480000</b>	
	BVF 7.62HP SH180 4-6 KIT	<b>1118470000</b>	
	BVF 7.62HP SH210 4-6 KIT	<b>1118490000</b>	
<b>Pressing tool</b>			
	PZ 6/5	<b>9011460000</b>	
<b>Screwdriver</b>			
	SDS 0.6X3.5X100	<b>2749340000</b>	
	SDS 0.8X4.5X125		

**Ordering data**

Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	<b>2549320000</b>
2 / 6	15.24	0.600	7.62	0.300	54	<b>2628330000</b>
2 / 8	15.24	0.600	11.43	0.450	48	<b>2628690000</b>
3 / 4	22.86	0.900	3.81	0.150	48	<b>2628720000</b>
3 / 6	22.86	0.900	7.62	0.300	42	<b>2628730000</b>
3 / 8	22.86	0.900	11.43	0.450	42	<b>2628740000</b>
4 / 4	30.48	1.200	3.81	0.150	42	<b>2628780000</b>
4 / 6	30.48	1.200	7.62	0.300	36	<b>2628790000</b>
4 / 8	30.48	1.200	11.43	0.450	36	<b>2628800000</b>
5 / 4	38.10	1.500	3.81	0.150	36	<b>2628840000</b>
5 / 6	38.10	1.500	7.62	0.300	30	<b>2628850000</b>
5 / 8	38.10	1.500	11.43	0.450	30	<b>2628860000</b>

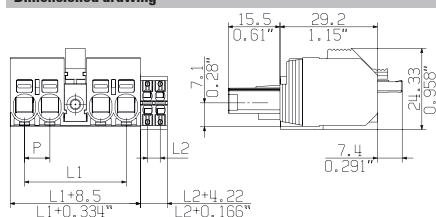
**Representative deratings curve**



**BVFL 7.62HP../180 BCF 3.81 MF3**



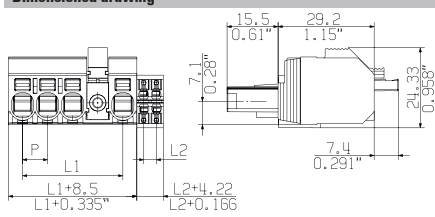
Dimensioned drawing



**BVFL 7.62HP../180 BCF 3.81 MF4**



Dimensioned drawing



**Ordering data**

Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
3/4	22.86	0.900	3.81 0.150	48	2549460000	
3/6	22.86	0.900	7.62 0.300	42	2549470000	
3/8	22.86	0.900	11.43 0.450	42	2549480000	
4/4	30.48	1.200	3.81 0.150	42	2628900000	
4/6	30.48	1.200	7.62 0.300	36	2628910000	
4/8	30.48	1.200	11.43 0.450	36	2628920000	
5/4	38.10	1.500	3.81 0.150	36	2628960000	
5/6	38.10	1.500	7.62 0.300	30	2628970000	
5/8	38.10	1.500	11.43 0.450	30	2628980000	

**Ordering data**

Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4/4	30.48	1.200	3.81 0.150	24	1547590000	
4/6	30.48	1.200	7.62 0.300	36	2549490000	
4/8	30.48	1.200	11.43 0.450	36	2549500000	
5/4	38.10	1.500	3.81 0.150	36	2549510000	
5/6	38.10	1.500	7.62 0.300	30	2549520000	
5/8	38.10	1.500	11.43 0.450	30	2549530000	

Additional pole combinations on request



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP/./180 BCF 3.81 MSF**



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

**Product data**

IEC: 1000 V / 38 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

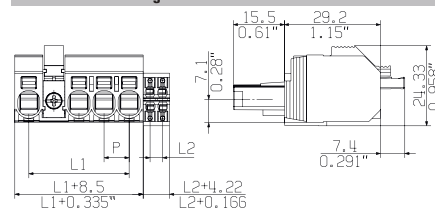
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVFL 7.62HP/./180 BCF 3.81 MSF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature	20°C		40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

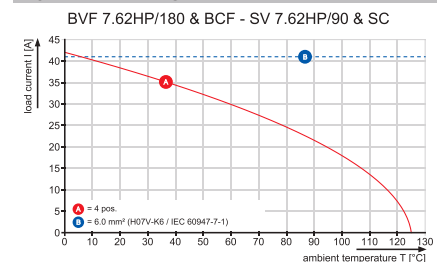
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Shielding</b>	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
<b>Pressing tool</b>	
PZ 6/5	9011460000
<b>Screwdriver</b>	
SDS 0.6X3.5X100	2749340000
SDS 0.8X4.5X125	

**Ordering data**

Solder pin length						
Colour	black					
Pitch	7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	2549330000
2 / 6	15.24	0.600	7.62	0.300	54	2629020000
2 / 8	15.24	0.600	11.43	0.450	48	2629030000
3 / 4	22.86	0.900	3.81	0.150	48	2629060000
3 / 6	22.86	0.900	7.62	0.300	42	2629070000
3 / 8	22.86	0.900	11.43	0.450	42	2629080000
4 / 4	30.48	1.200	3.81	0.150	42	2629120000
4 / 6	30.48	1.200	7.62	0.300	36	2629130000
4 / 8	30.48	1.200	11.43	0.450	36	2629140000
5 / 4	38.10	1.500	3.81	0.150	36	2629180000
5 / 6	38.10	1.500	7.62	0.300	30	2629190000
5 / 8	38.10	1.500	11.43	0.450	30	2629200000

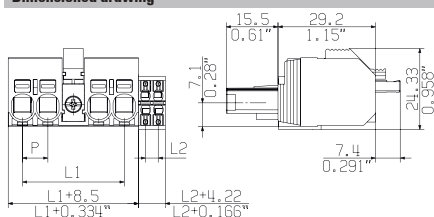
**Representative deratings curve**



**BVFL 7.62HP../180 BCF 3.81 MSF3**



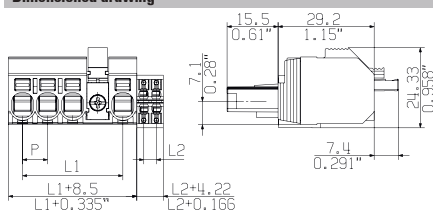
Dimensioned drawing



**BVFL 7.62HP../180 BCF 3.81 MSF4**



Dimensioned drawing



**Ordering data**

Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
3/4	22.86	0.900	3.81	0.150	48	<b>2549540000</b>
3/6	22.86	0.900	7.62	0.300	42	<b>2549550000</b>
3/8	22.86	0.900	11.43	0.450	42	<b>2549560000</b>
4/4	30.48	1.200	3.81	0.150	42	<b>2629240000</b>
4/6	30.48	1.200	7.62	0.300	36	<b>2629250000</b>
4/8	30.48	1.200	11.43	0.450	36	<b>2629260000</b>
5/4	38.10	1.500	3.81	0.150	36	<b>2629300000</b>
5/6	38.10	1.500	7.62	0.300	30	<b>2629310000</b>
5/8	38.10	1.500	11.43	0.450	30	<b>2629320000</b>

**Ordering data**

Solder pin length						
Colour						black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4/4	30.48	1.200	3.81	0.150	42	<b>1547600000</b>
4/6	30.48	1.200	7.62	0.300	36	<b>2549570000</b>
4/8	30.48	1.200	11.43	0.450	36	<b>2549580000</b>
5/4	38.10	1.500	3.81	0.150	36	<b>2549590000</b>
5/6	38.10	1.500	7.62	0.300	30	<b>2549600000</b>
5/8	38.10	1.500	11.43	0.450	30	<b>2549610000</b>

Additional pole combinations on request

# OMNIMATE® Power for IT systems - scalable from 25 A to 76 A

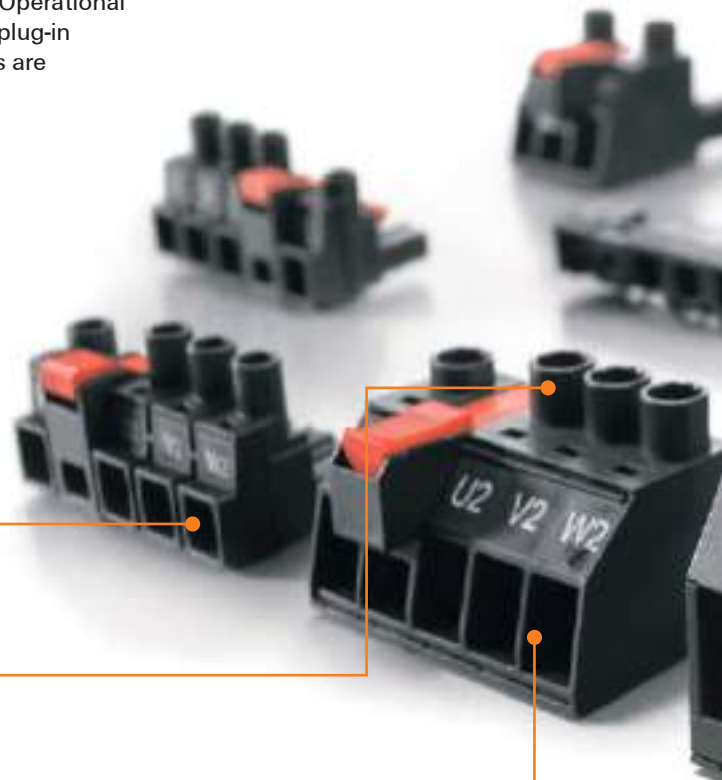
## Custom-fit solutions for special requirements

**Increased compliance with standards and fewer compromises: OMNIMATE® Power for IT systems establishes a new level of excellence with its standard integrated details. These attributes streamline the design-in and approval processes and result in safer operations.**

Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5 mm). The self-snapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process. The application-oriented design means that no compromises are necessary during the approval process.

### Uncompromised scalability

As much power as required, as little cost as needed: a device series for every power level and power type: scalable from 25 A/2.5 mm<sup>2</sup> to 41 A/6 mm<sup>2</sup> to 76 A/16 mm<sup>2</sup>.



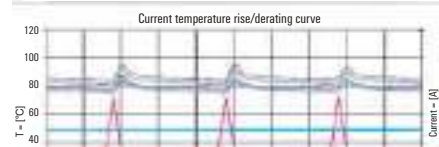
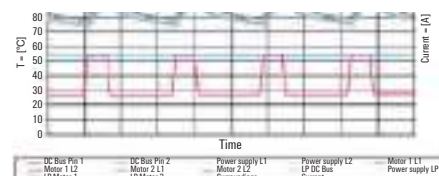
### IEC 61800-5-1 approval

No additional measures or compromises in the system suitable, touch-safe certification according to IEC 61800-5-1:  
+ 3.0 mm for 400 V TN systems,  
+ 5.5 mm for 400 V IT networks.



### Uncompromised power capabilities

Uncompromised means high power reserves for superior overload capacity even under the high ambient temperatures of real-world applications.



**Uncompromised safety**

Details such as insulated contact tips that ensure the pin header is touch-safe and automatic snap-in for a secure interlocking connection.

**UL approval without compromise**

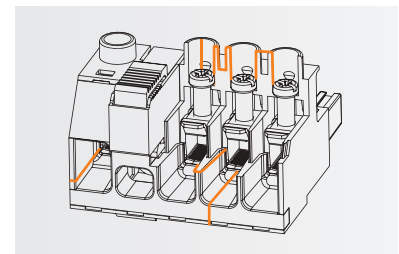
No limitation for UL approval with 600-V applications: with optimised creepage and clearance distance even under difficult installation situations.

**600 V**
**Finger safety according to DIN EN 61800-5-1**

Since the end of 2007, device approval according to IEC Directive "Adjustable speed electrical power drive systems – Part 5-1: Safety requirements" requires that – regardless of the line-to-earth voltage – an additional finger safety interval exists (for example, + 3 mm for 400 V-TN systems (wire-to-earth voltage = 230 V), or + 5.5 mm for 400-V IT systems (wire-to-earth voltage up to 400 V in event of error)). An additional cover is required if the connection system, as a device section, does not fulfil these requirements. The OMNIMATE® Power HP product line already complies with the stricter IEC requirements for additional touch protection.

**Clearance and creepage distances, acc. to UL**

A 600-V connector must have the approval of the UL 1059 component directive – but the potential installation situations must first be taken into consideration. This allows you to avoid making approval compromises – such as UL 508C or incorporating complex additions such as coatings or protective hoods. The OMNIMATE® Power HP product line already complies with the UL requirements for 600-V creepage and clearance distances.



# Secure and efficient connection of power electronics devices

## PUSH IN connector with wire-ready function

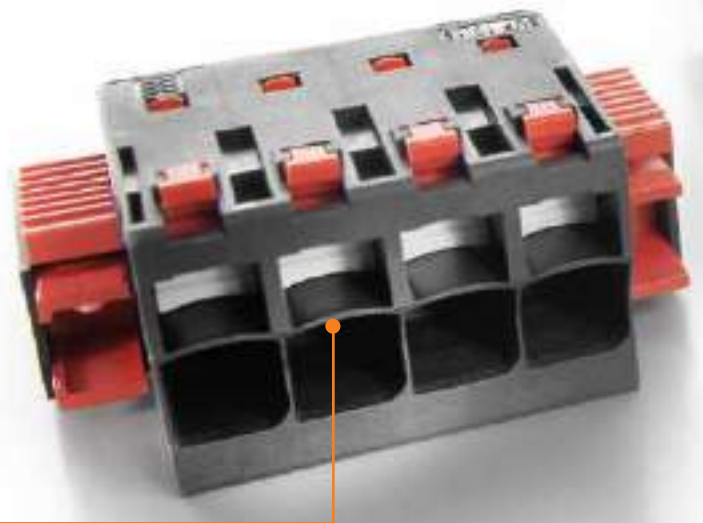
## P

High power applications necessitate connection by wires with huge cross sections, which are typically inflexible. Large PUSH IN connections are therefore difficult to plug in. Special tools are often needed for installation in narrow areas or for wiring with flexible wires without ferrules.

BUF 10.16 facilitates and accelerates this process and does not require additional tools. The operating lever which can be locked in the open position (pusher) makes it possible to insert conductors with short cladding or rigid insulation into the open terminal. This means that the proven PUSH IN function remains unrestricted while the terminal point, fixed in an open position, allows a comfortable and easy connection under difficult conditions. The result is a noticeable saving of time.

### Easy installation

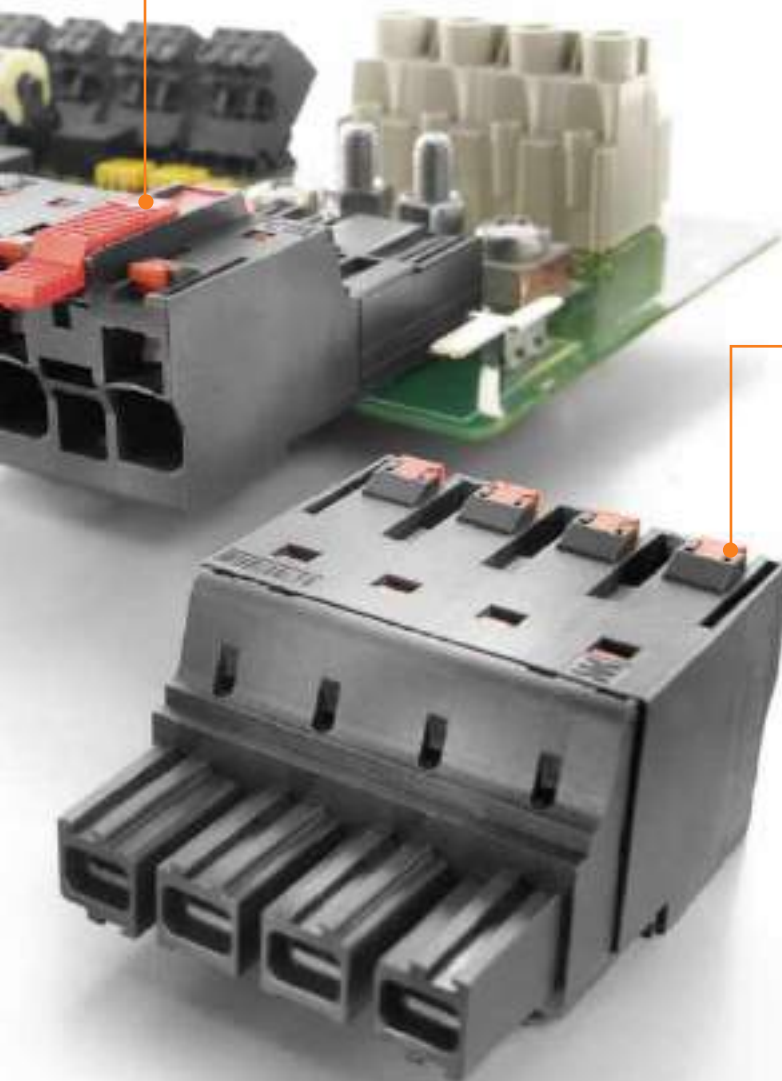
PUSH IN technology with open position fixed clamping point for easy wiring of flexible wires without ferrules and wires with rigid insulation.





**Easy one hand operation**

Automatic locking by a centre flange with detent fixing and optional screw fixing.

**Fast wiring**

The PUSH IN connection system allows tool-free connection of solid wires or wires with ferrules.

**Your special advantages**

- PUSH IN-technology with open position fixed clamping point
- Tool-free wiring of flexible wires without ferrules and wires with rigid insulation
- Easy one-hand operation of the connector
- Automatic locking by a centre flange with detent fixing and optional screw fixing



**Webcode: # 11407**

# Contact protection and EMC shielding for power electronics

## OMNIMATE® Power connectors with a pluggable shielding plate

### P

For power electronics devices, and in particular for drive technology, the device outputs generally need touch protection. Thereby, the contacting of the EMC shield support must be ensured, e.g. on servo drives or frequency inverters. For devices with a plastic housing in the front area, the shield support is considerably more difficult to contact.

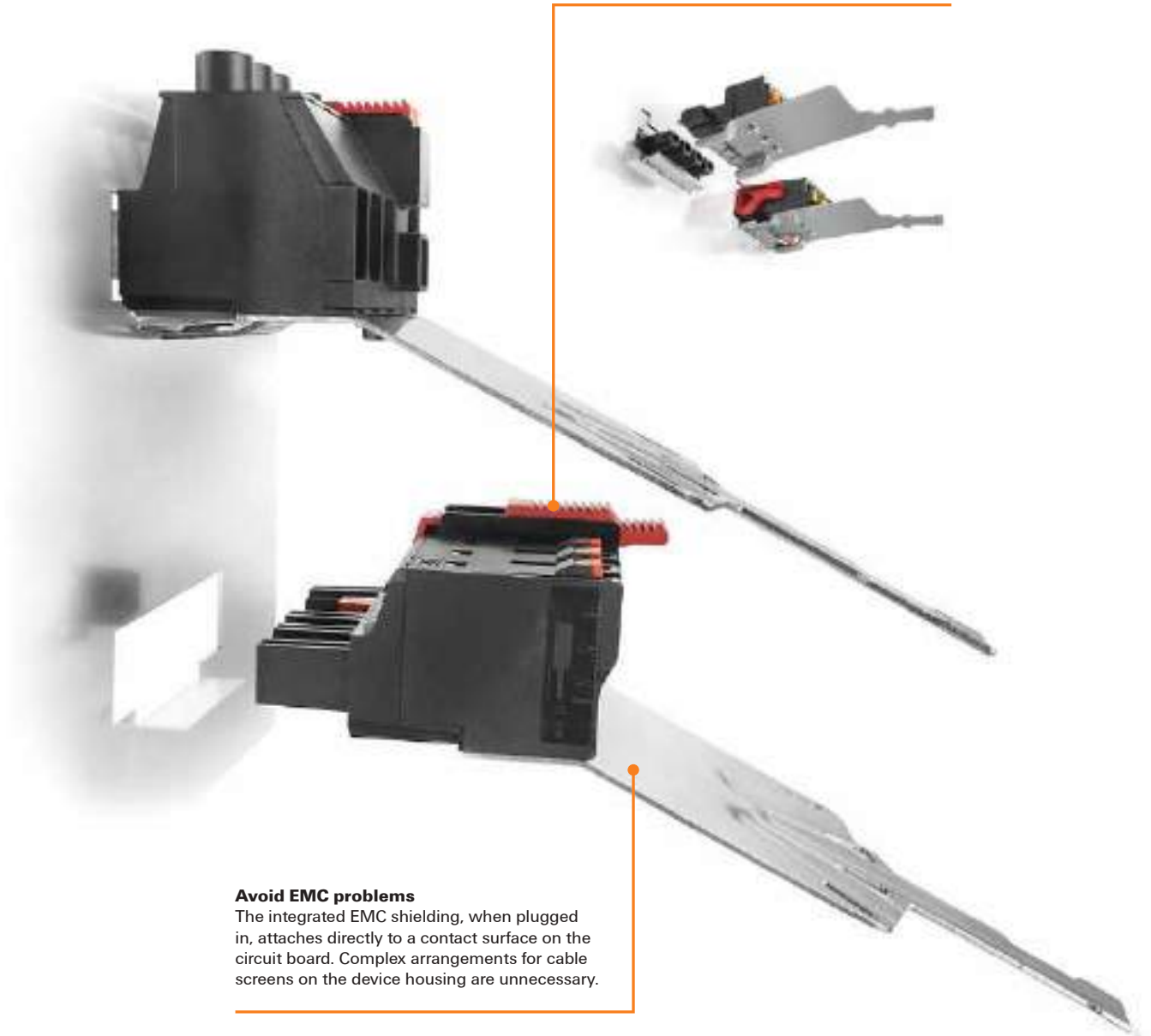
Our new OMNIMATE® power connectors and pin headers feature a pluggable shield support with special EMC spring contact strip. This enables the large-area, permanent and vibration-proof shield connection to the device housing. Thanks to finger safety on both sides of the male and female connectors, this solution is also suitable for applications with reverse voltage.

#### Your special advantages:

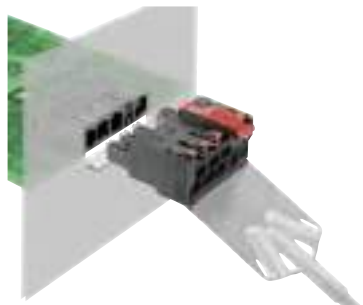
- Contact of the EMC shielding to the metal housing of the device directly when plugging in
- Reliable locking with screw flange or central flange locking
- Variable cable shielding outlet directions for easy device integration and adaptation to various housing formats

**Easy device integration**

Versions with straight or angled cable shield outlet at the connector allow variable integration. The screwable central flange lock ensures a secure and durable attachment to the device.

**Avoid EMC problems**

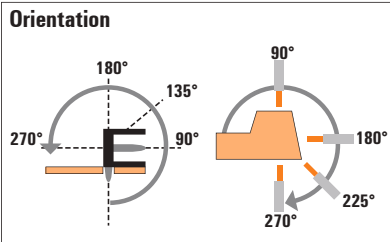
The integrated EMC shielding, when plugged in, attaches directly to a contact surface on the circuit board. Complex arrangements for cable screens on the device housing are unnecessary.





<http://www.OMNIMATE.net>

- = Wire-to-Board
- = Board-to-Board
- = Wire-to-Wire
- = Board-to-Wire



Pitch 7.62 mm



For IT networks



Type	SL	SL
Orientation	90°	90°
Flange options	MF2	MF3
Product code numbers	IEC: 630 V/24 A UL: 300 V/20 A	IEC: 630 V/24 A UL: 300 V/20 A

Female plug	Screw Clamping yoke	Image	Type	Orientation	Flange options	Product code numbers	SL	
							○	●
			BLZ	180°	MF2	IEC: 630 V/24 A/0.08 - 4 mm <sup>2</sup> UL: 600 V/20 A/AWG 28 - 12	○	●
			BLZ	180°	MF3	IEC: 630 V/24 A/0.08 - 4 mm <sup>2</sup> UL: 600 V/20 A/AWG 28 - 12		○
			BLZ	180°	MF4	IEC: 630 V/24 A/0.08 - 4 mm <sup>2</sup> UL: 600 V/20 A/AWG 28 - 12		●
			BVZ	180°	MF2	IEC: 1.000 V/41 A/0.2 - 6 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8		
			BVZ	180°	MF3	IEC: 1.000 V/41 A/0.2 - 6 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8		
			BVZ	180°	MF4	IEC: 1.000 V/41 A/0.2 - 6 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8		
			BUZ	180°	MF2	IEC: 1.000 V/76 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4		
			BUZ	180°	MF3	IEC: 1.000 V/76 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4		
			BUZ	180°	MF4	IEC: 1.000 V/76 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4		
			BUZ SH	180°	MF2	IEC: 1.000 V/76 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4		
			BUZ SH	180°	MF3	IEC: 1.000 V/76 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4		
			BUZ SH	180°	MF4	IEC: 1.000 V/76 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4		

MF2 = Centre snap flange at position 2  
 MF3 = Centre snap flange at position 3  
 MF4 = Centre snap flange at position 4

Male header



Solder connection





Pitch 7.62 mm

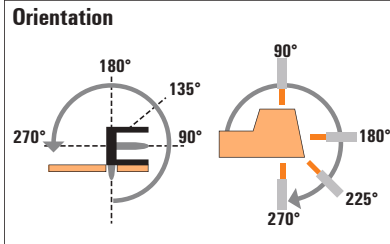
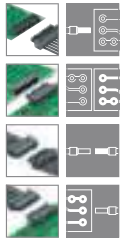
Pitch 10.16 mm



	SL	SV	SV	SV	SU	SU	SU
	90°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°
	MF4	MF2	MF3	MF4	MF2	MF3	MF4
	IEC: 630 V/24 A UL: 300 V/20 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A
	○ ●						
		○ ●					
			○ ●				
				○ ●			
					○ ●		
						○ ●	
					○ ●		
						○ ●	
							○ ●
							○ ●

<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire









Pitch 7.62 mm



**For IT networks**



Type	SL	SL
Orientation	90°	90°
Flange options	MF2	MF3
Product code numbers	IEC: 630 V/24 A UL: 300 V/20 A	IEC: 630 V/24 A UL: 300 V/20 A

Female plug	Spring PUSH IN		Type			SL	SL
		<b>BUF</b>	180°	MF2	IEC: 1.000 V/76 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 6		
		<b>BUF</b>	180°	MF3	IEC: 1.000 V/76 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 6		
		<b>BUF</b>	180°	MF4	IEC: 1.000 V/76 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 6		
		<b>BUF SH</b>	180°	MF2	IEC: 1.000 V/76 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 6		
		<b>BUF SH</b>	180°	MF3	IEC: 1.000 V/76 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 6		
		<b>BUF SH</b>	180°	MF4	IEC: 1.000 V/76 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 6		

**MF2** = Centre snap flange at position 2  
**MF3** = Centre snap flange at position 3  
**MF4** = Centre snap flange at position 4

Male header



Solder connection

Pitch 7.62 mm

Pitch 10.16 mm



	SL	SV	SV	SV	SU	SU	SU
	90°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°
	MF4	MF2	MF3	MF4	MF2	MF3	MF4
	IEC: 630 V/24 A UL: 300 V/20 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A
					○ ●		
						○ ●	
							○ ●
					○ ●		
						○ ●	
							○ ●

**Connectors for IT power networks, pitch 7.62 mm**  
**BL/SL 7.62 IT series - connection up to 4 mm<sup>2</sup>**

**SL 7.62IT/./90MF**



Male header available with 90° outlet direction and an optional solder flange attachment for IT power networks. UL approval in accordance with UL840 for 600 V with leading contact. In conjunction with the female plug BLZ 7.62 IT, meets the enhanced requirements for 5.5 mm touch-safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. When no female plug is present, the mating profile ensures that at least >1 mm of finger safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>29</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500 630</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 630 V / 29 A  
 UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

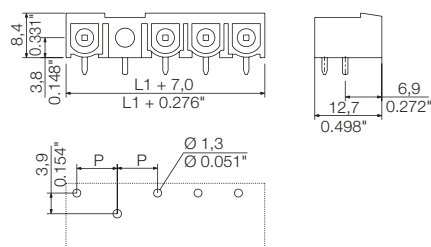
**Note:**

- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SL 7.62IT/./90MF2**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000

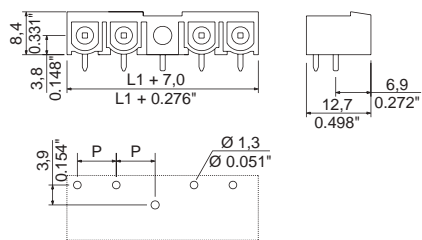
**Ordering data**

<b>Solder pin length</b>		3.2 mm		
<b>Colour</b>		black		
<b>Pitch</b>		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	84	1173610000
3	22.86	0.900	60	1173640000
4	30.48	1.200	48	1173730000
5	38.10	1.500	36	2629360000
6	45.72	1.800	30	2629480000

SL 7.62IT../90MF3



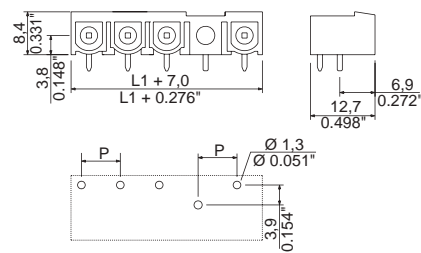
Dimensioned drawing



SL 7.62IT../90MF4



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm			
Colour		black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	60	1173690000	
4	30.48	1.200	48	2629490000	
5	38.10	1.500	36	1398820000	
6	45.72	1.800	30	1398840000	

Ordering data

Solder pin length		3.2 mm			
Colour		black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	48	1173700000	
5	38.10	1.500	36	1398830000	
6	45.72	1.800	30	2629500000	

**Connectors for IT power networks, pitch 7.62 mm**  
**BLZ/SL 7.62 IT series - connection up to 4 mm<sup>2</sup>**

**BLZ 7.62IT../180MF**



Female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading contact in conjunction with the male header SL 7.62 IT. Meets the enhanced requirements for 5.5 mm touch-safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth.

The self-snapping middle flange, which is optionally available with an additional fastening screw, decreases the space required by one pitch width compared to other standard solutions.

Optionally available without middle flange interlock

**Product data**

IEC: 630 V / 29 A / 0.08 - 4 mm<sup>2</sup>  
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

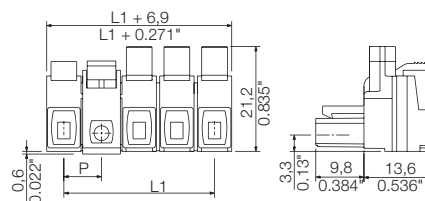
**Note:**

- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BLZ 7.62IT../180MF2**



**Dimensioned drawing**







**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.08...4	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.08...4</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.08...4	
Flexible with ferrule	mm <sup>2</sup>	0.2...2.5	
Ferrule with plastic collar	mm <sup>2</sup>	0.2...2.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.6 x 3.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.4...0.5	
<b>Rated current, max.</b>	<b>A</b>	<b>29</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	2.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500 630</b>
Rated impulse voltage	kV	6	6 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

**Accessories**

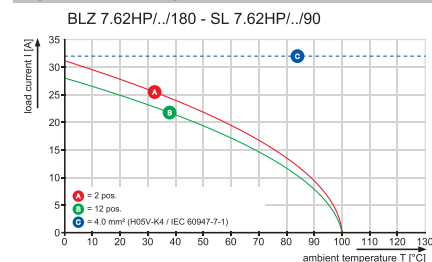
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
 BLZ/SL KO OR BX	<b>1573010000</b>
 BLZ/SL KO BK BX	<b>1545710000</b>
Screwdriver	
 SDS 0.6X3.5X100	<b>2749340000</b>
 SDIS 0.6X3.5X100	<b>2749810000</b>

**Ordering data**

Solder pin length				
Colour	<b>black</b>			
Pitch	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	70	<b>1173490000</b>
3	22.86	0.900	50	<b>1173500000</b>
4	30.48	1.200	40	<b>1173520000</b>
5	38.10	1.500	50	<b>2629690000</b>
6	45.72	1.800	50	<b>2629740000</b>

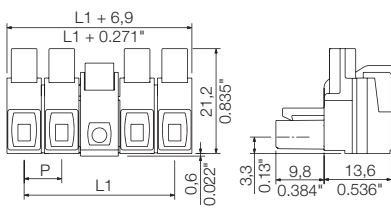
**Representative deratings curve**



**BLZ 7.62IT../180MF3**



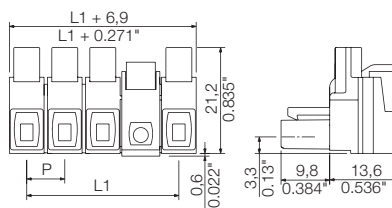
Dimensioned drawing



**BLZ 7.62IT../180MF4**



Dimensioned drawing



**Ordering data**

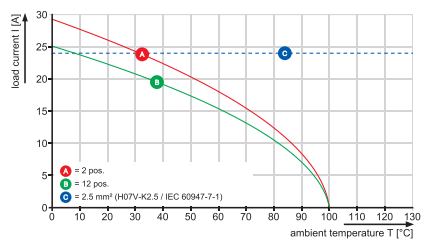
Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1173510000	
4	30.48	1.200	40	2629750000	
5	38.10	1.500	30	1398880000	
6	45.72	1.800	25	1398900000	

**Ordering data**

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1173530000	
5	38.10	1.500	30	1398890000	
6	45.72	1.800	25	1398910000	

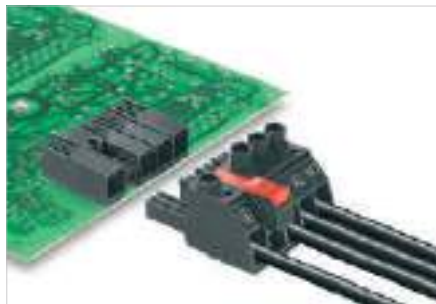
**Additional deratings curves**

BLZ 7.62HP../180 - SL 7.62HP../90





### SV-SMT 7.62IT../90MF



Male header with 90° outlet direction with optional solder flange attachment and leading PE contact for IT networks. UL approval in accordance with UL840 for 600 V. In combination with the female plug BVZ 7.62IT meets the enhanced requirements for 5.5 mm of touch safety for IT networks in acc. with IEC61800-5-1 for 400 V relative to earth. If no female plug is present, the mating profile still ensures that at least > 1 mm of finger safety is present with a finger pressure of 20 N.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 300</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 10</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Product data

IEC: 1000 V / 41 A  
UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

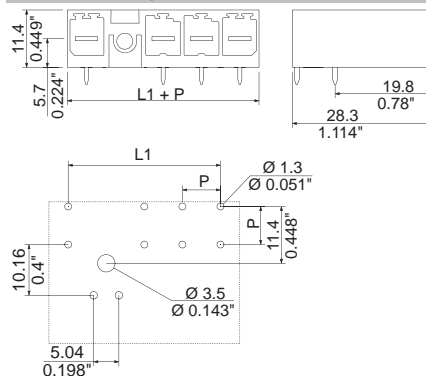
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### SV-SMT 7.62IT../90MF2 Box



#### Dimensioned drawing



### Ordering data

<b>Solder pin length</b>	2.6 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	15.24	0.600	50	2499530000
3	22.86	0.900	50	2499720000
4	30.48	1.200	48	2499740000
5	38.10	1.800	50	2499760000

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

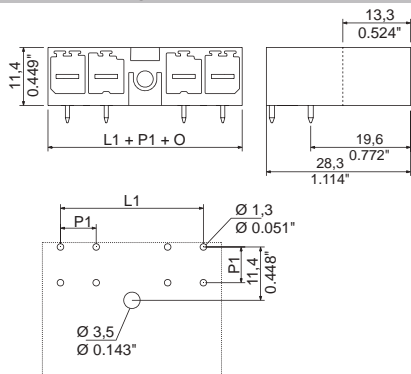
Coding	Order No.
BV/SV 7.62HP KO	1937590000



SV-SMT 7.62IT../90MF3 Box



Dimensioned drawing



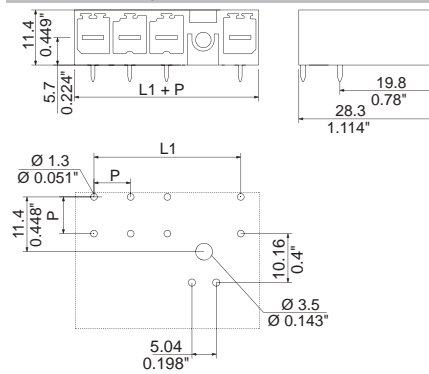
Ordering data

Solder pin length		2.6 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
3	22.86	0.900	50 2499730000
4	30.48	1.200	48 2499750000
5	38.10	1.800	50 2499770000

SV-SMT 7.62IT../90MF4 Box



Dimensioned drawing



Ordering data

Solder pin length		2.6 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	48 2454110000
5	38.10	1.800	50 2499780000

### SV-SMT 7.62IT../270MF



Male header with 270° outlet direction with optional solder flange attachment and leading PE contact for IT networks. UL approval in accordance with UL840 for 600 V. In combination with the female plug BVZ 7.62IT meets the enhanced requirements for 5.5 mm of touch safety for IT networks in acc. with IEC61800-5-1 for 400 V relative to earth. When no female plug is present, the mating profile ensures that at least > 1 mm of finger safety is present with a finger pressure of 20 N.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

### Product data

IEC: 1000 V / 41 A  
UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

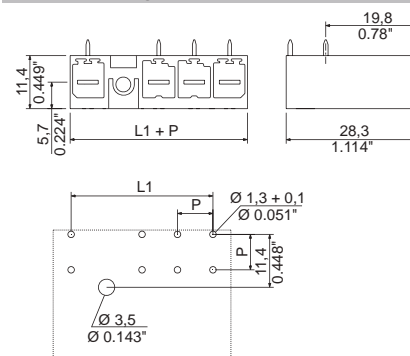
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### SV-SMT 7.62IT../270MF2 Box



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section		III	III II
Overvoltage category		3	2 2
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 300</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 10</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material	PA 9T		
UL 94 flammability rating	V-0		
Contact base material	Copper alloy		
Material of contact surface	tinned		
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000



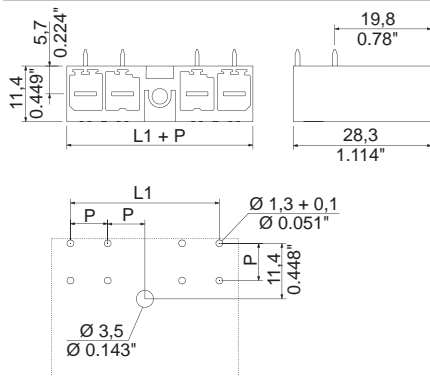
### Ordering data

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	50	2498800000
3	22.86	0.900	50	2499010000
4	30.48	1.200	50	2499030000

SV-SMT 7.62IT/./270MF3 Box



Dimensioned drawing



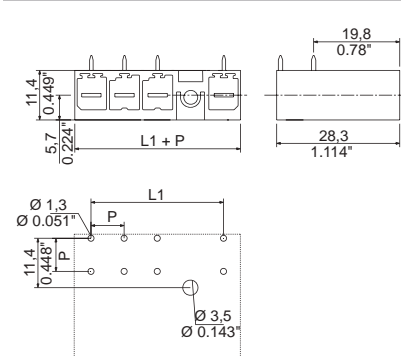
Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	50	2499020000
4	30.48	1.200	50	2499040000

SV-SMT 7.62IT/./270MF4 Box



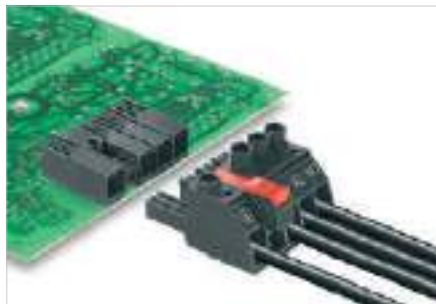
Dimensioned drawing



Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	50	2499050000

### SV 7.62IT/./90MF



Male header with 90° outlet direction with optional solder flange attachment and leading PE contact for IT power networks. UL approval in accordance with UL840 for 600 V In combination with the female plug BVZ 7.62 IT meets the enhanced requirements for 5.5 mm of touch safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. Even when no female plug is present, the mating profile ensures that at least >1 mm of touch safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Product data

IEC: 1000 V / 41 A  
UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

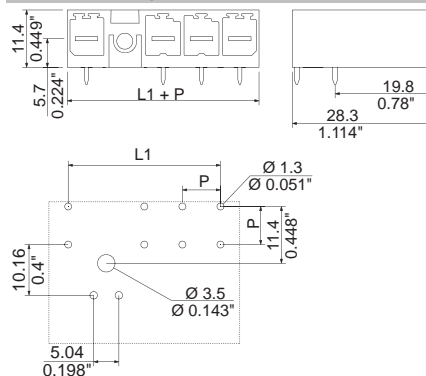
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### SV 7.62IT/./90MF2



#### Dimensioned drawing



### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

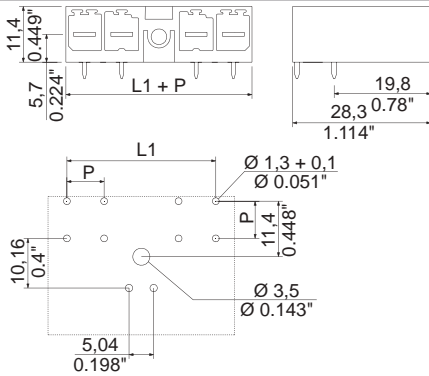
### Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1 (inch)	Qty.	Order No.
2	15.24	78	1156540000
3	22.86	60	1156550000
4	30.48	48	1156580000

SV 7.62IT../90MF3



Dimensioned drawing



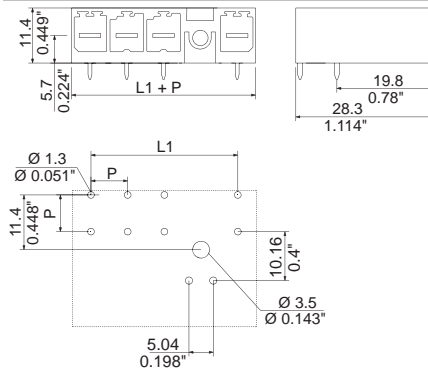
Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
3	22.86	0.900	60 1156570000
4	30.48	1.200	48 1519190000

SV 7.62IT../90MF4



Dimensioned drawing

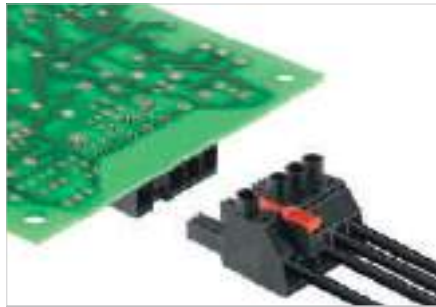


Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	48 1156590000

**Connectors for IT power networks, pitch 7.62 mm**  
**BV/SV 7.62 IT series - connection up to 6 mm<sup>2</sup>**

**SV 7.62IT../270MF**



Male header with 270° outlet direction with a leading PE contact for IT power networks. UL approval in accordance with UL840 for 600 V In combination with the female plug BVZ 7.62 IT meets the enhanced requirements for 5.5 mm of touch safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. Even when no female plug is present, the mating profile ensures that at least >1 mm of touch safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

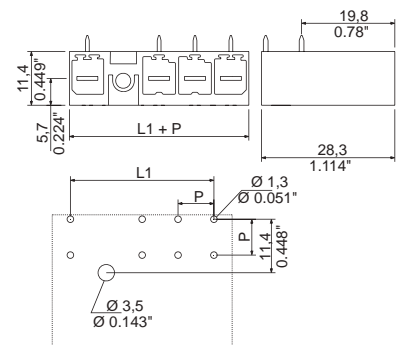
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62IT../270MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000



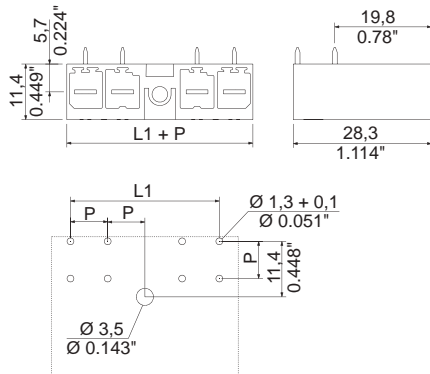
**Ordering data**

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1156490000
3	22.86	0.900	60	1156500000
4	30.48	1.200	48	1156520000

SV 7.62IT../270MF3



Dimensioned drawing



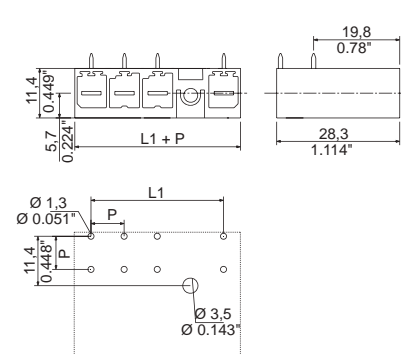
Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	60	1156510000
4	30.48	1.200	48	1519200000

SV 7.62IT../270MF4



Dimensioned drawing



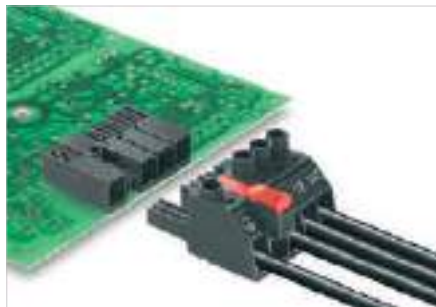
Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	48	1156530000



**Connectors for IT power networks, pitch 7.62 mm**  
**BV/SV 7.62 IT series - connection up to 6 mm<sup>2</sup>**

**BVZ 7.62IT../180MF**



Female plug for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SV 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth.

The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

Optionally available without middle flange interlock.

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
 UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

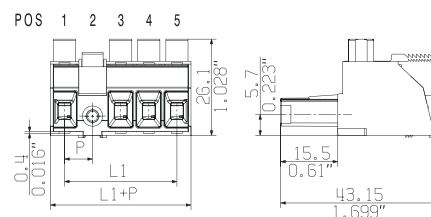
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVZ 7.62IT../180MF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>		<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG	24-8	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

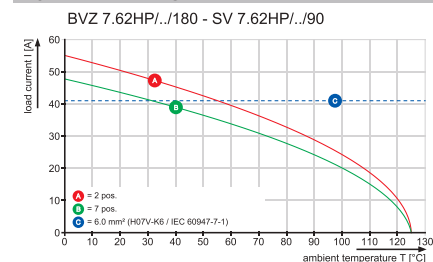
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Strain relief</b>		
	BV/SV 7.62HP/02 ZE GR	1937550000
	BV/SV 7.62HP/04 ZE GR	1937560000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	2749370000
	SDK PH1 X 80	2749410000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	52	1156710000
3	22.86	0.900	40	1156720000
4	30.48	1.200	32	1156740000

**Representative deratings curve**



**BVZ 7.62IT../180MF3**

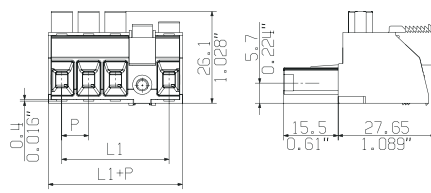
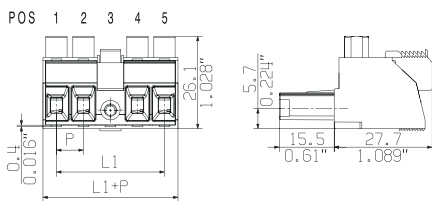


Dimensioned drawing

**BVZ 7.62IT../180MF4**



Dimensioned drawing



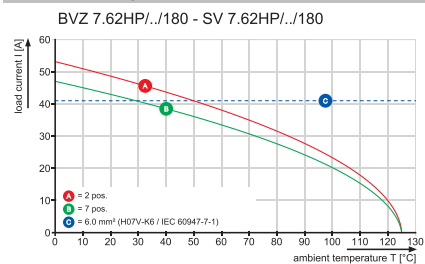
**Ordering data**

<b>Solder pin length</b>					
<b>Colour</b>					<b>black</b>
<b>Pitch 7.62 mm</b>					
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>	
3	22.86	0.900	40	1156730000	
4	30.48	1.200	32	1312730000	

**Ordering data**

<b>Solder pin length</b>					
<b>Colour</b>					<b>black</b>
<b>Pitch 7.62 mm</b>					
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>	
4	30.48	1.200	32	1156750000	

**Additional deratings curves**



### SU 10.16IT../90MF



Male header with 90° outlet direction and optional solder flange with leading PE contact. UL approval in accordance with UL840 for 600 V. In combination with the female plug BUZ 10.16 IT meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. Even when no female plug is present, the mating profile ensures that at least >1 mm of touch safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

### Product data

IEC: 1000 V / 78.3 A  
UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

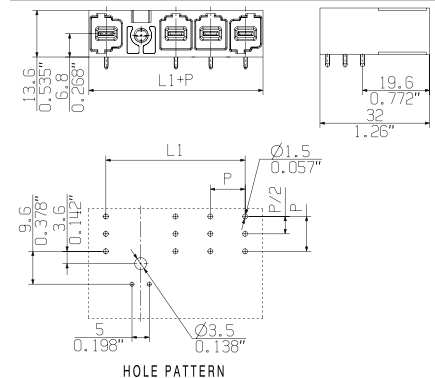
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### SU 10.16IT../90MF2



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000</b>
Rated impulse voltage	kV	8	8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	300	300
Rated current	A	60	60
AWG conductor	AWG	-	-
<b>General data</b>			
Type of insulation material	PA GF		
UL 94 flammability rating	V-0		
Contact base material	Copper alloy		
Material of contact surface	silver-plated		
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
<b>Mounting screw</b>	
SU 10.16 BFSC P 35X 14	2812340000
SU 10.16 BFSC S 35X12	2812290000

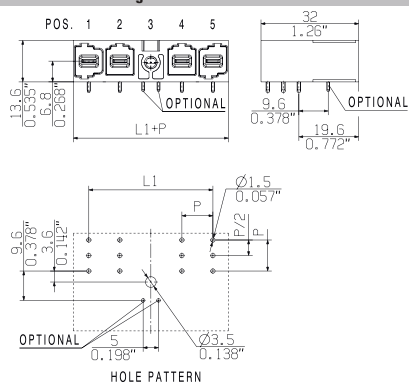
### Ordering data

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	black			
<b>Pitch</b>	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	60	1156650000
3	30.48	1.200	42	1156670000
4	40.64	1.600	36	1156690000

SU 10.16IT../90MF3



Dimensioned drawing



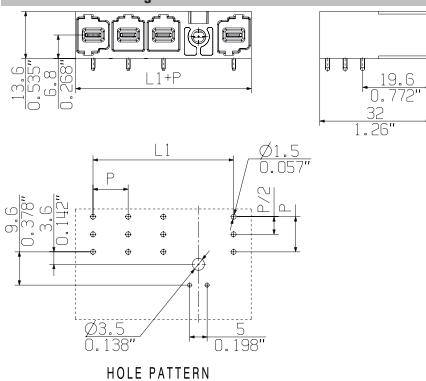
Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
3	30.48	1.200	42 1156680000
4	20.32	0.800	36 2629730000

SU 10.16IT../90MF4



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
4	40.64	1.600	36 1156700000

### SU 10.16IT../270MF



Male header with 270° outlet direction with leading PE contact. UL approval in accordance with UL840 for 600 V. In combination with the female plug BUZ 10.16 IT meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. Even when no female plug is present, the mating profile ensures that at least >1 mm of touch safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

### Product data

IEC: 1000 V / 78.3 A  
UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

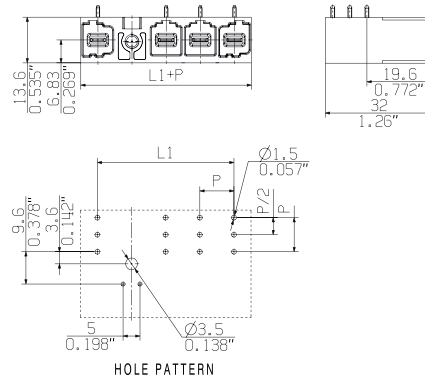
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### SU 10.16IT../270MF2



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
<b>Mounting screw</b>	
SU 10.16 BFSC P 35X 14	2812340000
SU 10.16 BFSC S 35X12	2812290000

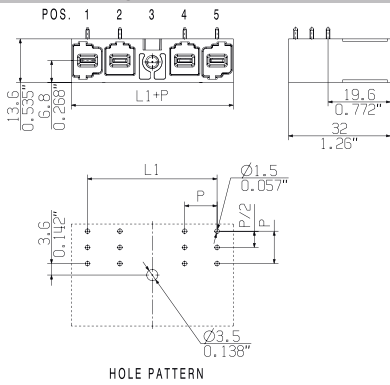
### Ordering data

<b>Solder pin length</b>	3.5 mm		
<b>Colour</b>	black		
<b>Pitch</b>	10.16 mm		
Pol.	L1	(inch)	Qty. Order No.
2	20.32	0.800	60 1157310000
3	30.48	1.200	42 1157320000
4	40.64	1.600	36 1157340000

SU 10.16IT../270MF3



Dimensioned drawing



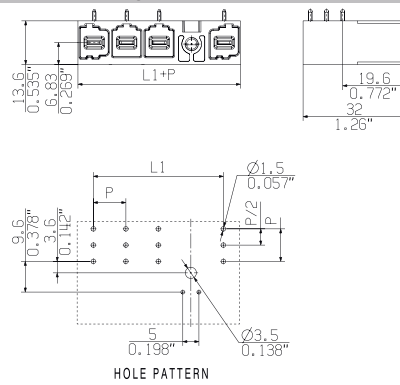
Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
3	30.48	1.200	42 1157330000
4	20.32	0.800	36 2630190000

SU 10.16IT../270MF4



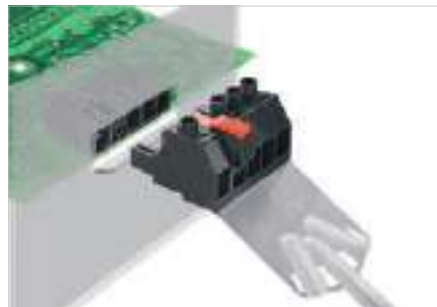
Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
4	40.64	1.600	36 1157350000

**BUZ 10.16IT../180MF SH**



Female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.2...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.25...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...16	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B C D</b>	
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>22-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B C D</b>	
Rated voltage	V	600	600 600
Rated current	A	60	60 5
AWG conductor	AWG	22-4	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 78.3 A / 0.2 - 16 mm<sup>2</sup>  
UL: 600 V / 60 A / AWG 22 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

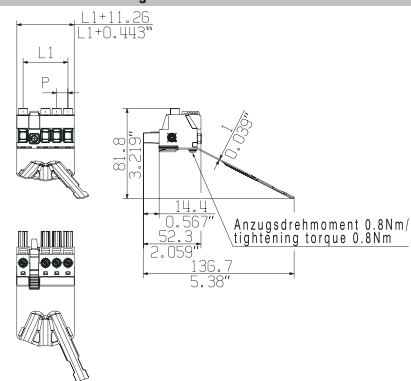
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BUZ 10.16IT../180MF2 SH160**



**UL 600 V**

**Dimensioned drawing**



**Ordering data**

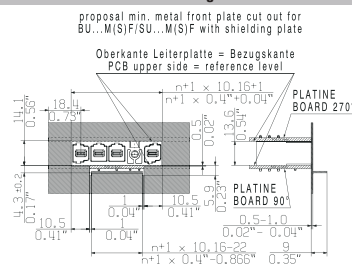
<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	2627330000
4	40.64	1.600	20	2627340000

**Accessories**

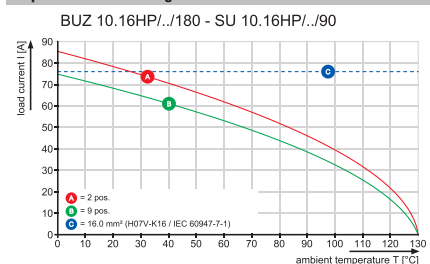
**Note:** Refer to the Accessories chapter for additional accessories.

<b>Coding</b>		<b>Order No.</b>
	KO BU/SU10.16HP BK	1824410000
	KO BU/SU10.16HP WT	2592600000
<b>Screwdriver</b>		
	SDIS 1.0X5.5X125	2749850000
<b>Crosshead screwdriver</b>		
	SDIK PZ2 X 100	2749930000
	SDK PZ2 X 100	2749450000

**Representative dimensional drawing**



**Representative deratings curve**

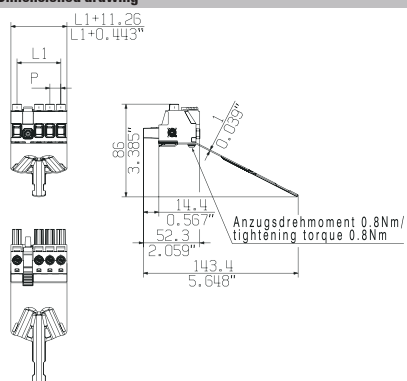


**BUZ 10.16IT../180MF2 SH180**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

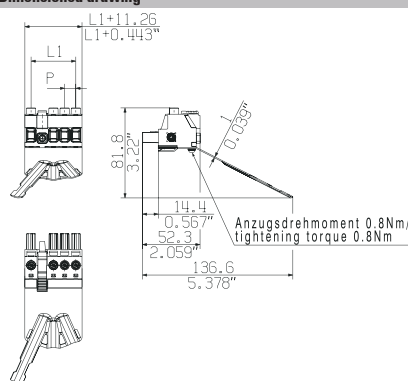
<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627380000</b>
4	40.64	1.600	20	<b>2627390000</b>

**BUZ 10.16IT../180MF2 SH200**



**UL  
600V**

**Dimensioned drawing**

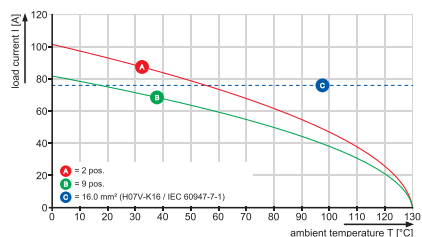


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627430000</b>
4	40.64	1.600	20	<b>2627440000</b>

**Additional deratings curves**

BUZ 10.16HP../180 - SU 10.16HP../180





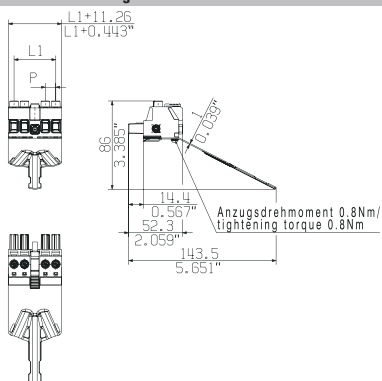


**BUZ 10.16IT../180MF3 SH180**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

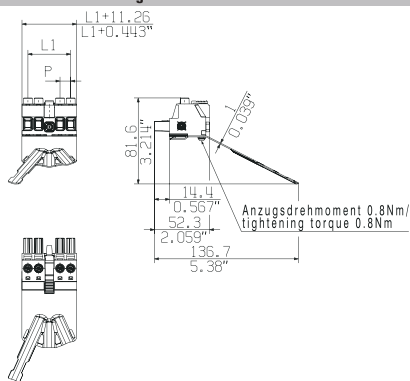
<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627400000</b>
4	40.64	1.600	20	<b>2627410000</b>

**BUZ 10.16IT../180MF3 SH200**



**UL  
600V**

**Dimensioned drawing**

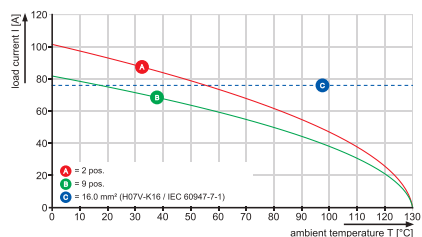


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627450000</b>
4	40.64	1.600	20	<b>2627460000</b>

**Additional deratings curves**

BUZ 10.16HP../180 - SU 10.16HP../180



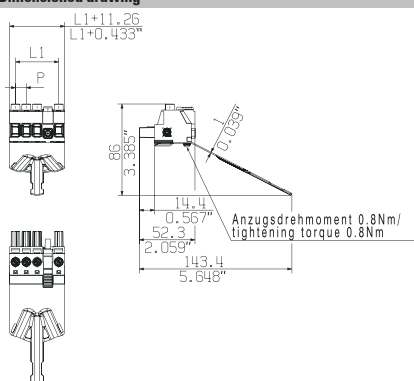


**BUZ 10.16IT../180MF4 SH180**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

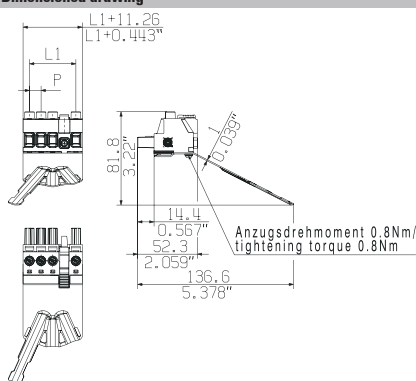
<b>Solder pin length</b>				
<b>Colour</b>	black			
<b>Pitch</b>	10.16 mm			
<b>Pol.</b>	L1	(inch)	<b>Qty.</b>	<b>Order No.</b>
4	40.64	1.600	20	2627420000

**BUZ 10.16IT../180MF4 SH200**



**UL  
600V**

**Dimensioned drawing**

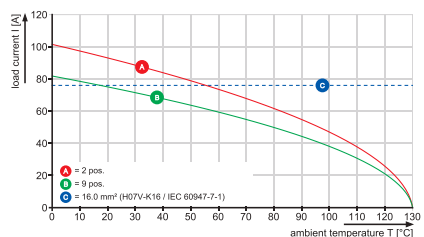


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	black			
<b>Pitch</b>	10.16 mm			
<b>Pol.</b>	L1	(inch)	<b>Qty.</b>	<b>Order No.</b>
4	40.64	1.600	20	2627470000

**Additional deratings curves**

BUZ 10.16HP../180 - SU 10.16HP../180





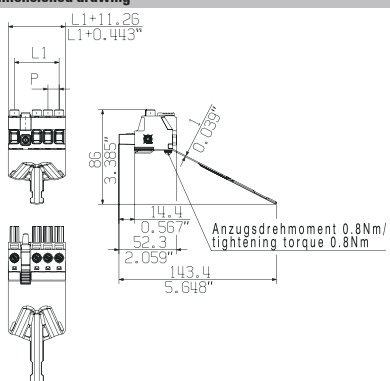
**BUZ 10.16IT../180MSF2 SH180**

**BUZ 10.16IT../180MSF2 SH200**



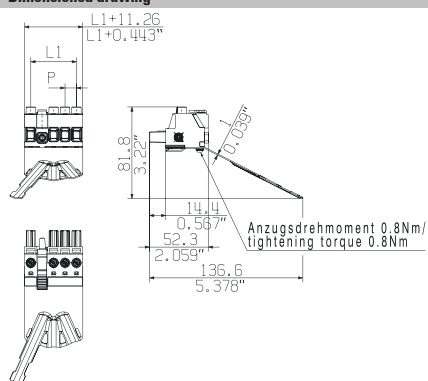
**UL  
600V**

**Dimensioned drawing**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

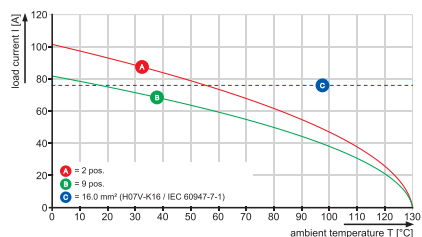
<b>Solder pin length</b>					
<b>Colour</b>					<b>black</b>
<b>Pitch 10.16 mm</b>					
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>	
3	30.48	1.200	20	2627530000	
4	40.64	1.600	20	2627540000	

**Ordering data**

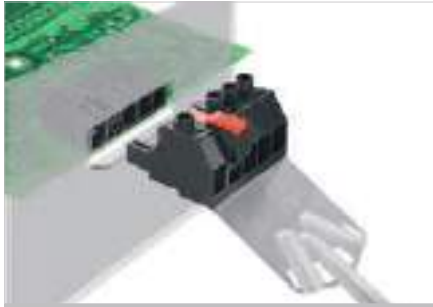
<b>Solder pin length</b>					
<b>Colour</b>					<b>black</b>
<b>Pitch 10.16 mm</b>					
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>	
3	30.48	1.200	20	2627580000	
4	40.64	1.600	20	2627590000	

**Additional deratings curves**

BUZ 10.16HP../180 - SU 10.16HP../180



**BUZ 10.16IT../180MSF SH**



Female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.2...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.25...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...16	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>22-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600 600
Rated current	A	60	60 5
AWG conductor	AWG	22-4	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 78.3 A / 0.2 - 16 mm<sup>2</sup>  
UL: 600 V / 60 A / AWG 22 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

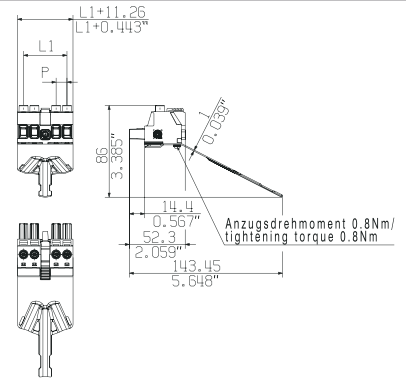
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BUZ 10.16IT../180MSF3 SH160**



**UL 600 V**

**Dimensioned drawing**



**Ordering data**

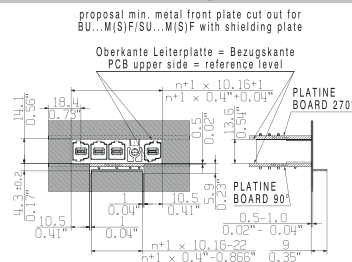
<b>Solder pin length</b>					
<b>Colour</b>	<b>black</b>				
<b>Pitch</b>	<b>10.16 mm</b>				
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>	
3	30.48	1.200	20	<b>2627500000</b>	
4	40.64	1.600	20	<b>2627510000</b>	

**Accessories**

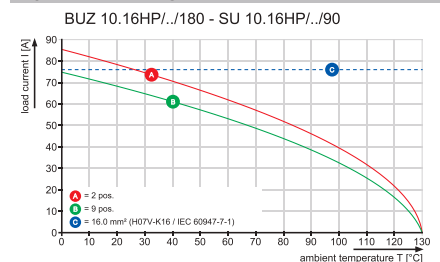
**Note:** Refer to the Accessories chapter for additional accessories.

<b>Coding</b>		<b>Order No.</b>
	KO BU/SU10.16HP BK	<b>1824410000</b>
	KO BU/SU10.16HP WT	<b>2592600000</b>
<b>Screwdriver</b>		
	SDIS 1.0X5.5X125	<b>2749850000</b>
<b>Crosshead screwdriver</b>		
	SDIK PZ2 X 100	<b>2749930000</b>
	SDK PZ2 X 100	<b>2749450000</b>

**Representative dimensional drawing**



**Representative deratings curve**



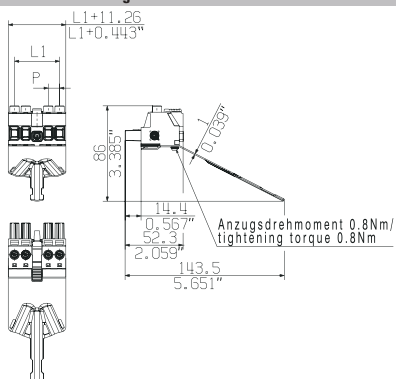
**BUZ 10.16IT../180MSF3 SH180**

**BUZ 10.16IT../180MSF3 SH200**



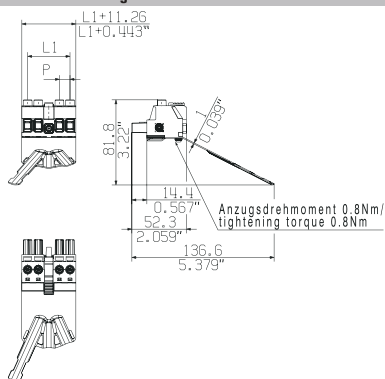
**UL  
600V**

**Dimensioned drawing**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

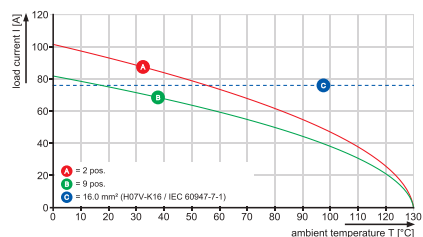
Solder pin length				
Colour				black
Pitch 10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	2627550000
4	40.64	1.600	20	2627560000

**Ordering data**

Solder pin length				
Colour				black
Pitch 10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	2627600000
4	40.64	1.600	20	2627610000

**Additional deratings curves**

BUZ 10.16HP../180 - SU 10.16HP../180





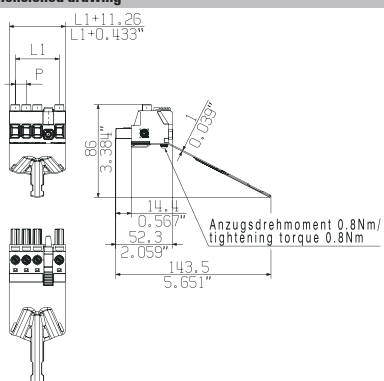


**BUZ 10.16IT../180MSF4 SH180**



**UL  
600V**

**Dimensioned drawing**



**Ordering data**

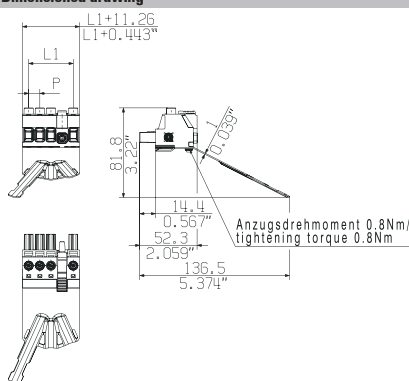
<b>Solder pin length</b>				
<b>Colour</b>	black			
<b>Pitch</b>	10.16 mm			
<b>Pol.</b>	L1	(inch)	<b>Qty.</b>	<b>Order No.</b>
4	40.64	1.600	20	2627570000

**BUZ 10.16IT../180MSF4 SH200**



**UL  
600V**

**Dimensioned drawing**

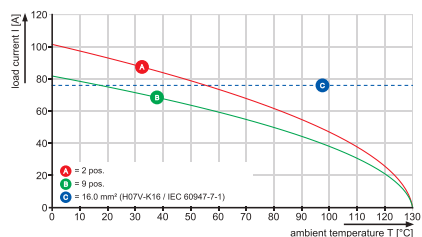


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	black			
<b>Pitch</b>	10.16 mm			
<b>Pol.</b>	L1	(inch)	<b>Qty.</b>	<b>Order No.</b>
4	40.64	1.600	20	2627620000

**Additional deratings curves**

BUZ 10.16HP../180 - SU 10.16HP../180



### BUZ 10.16IT../180MF



Female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth.

The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

Optionally available without middle flange interlock.

### Product data

IEC: 1000 V / 78.3 A / 0.2 - 16 mm<sup>2</sup>  
UL: 600 V / 60 A / AWG 22 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

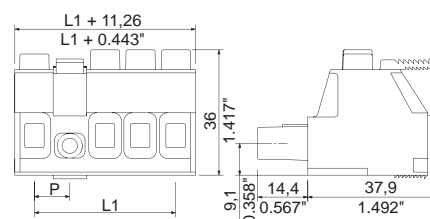
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### BUZ 10.16IT../180MF2



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.2...16
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...16</b>
Stranded H07 V-R		...16
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16
Flexible with ferrule	mm <sup>2</sup>	0.25...16
Ferrule with plastic collar	mm <sup>2</sup>	0.25...16
Stripping length	mm	12
Screwdriver blade	mm	1.0 x 5.5

According to norm

Tightening torque range	Nm	1.2...1.5
<b>Rated current, max.</b>	<b>A</b>	<b>78.3 70.6</b>
At ambient temperature		20°C 40°C

For conductor cross-section	mm <sup>2</sup>	16
Overvoltage category		III III II
Pollution severity		3 2 2

<b>Rated voltage</b>	<b>V</b>	<b>1000 1000 1000</b>
Rated impulse voltage	kV	8 8 6

#### UL / CUL (Use Group)

<b>Rated voltage</b>	<b>V</b>	<b>600 600 600</b>
<b>Rated current</b>	<b>A</b>	<b>60 60 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>22-4</b>
<b>CSA (Use Group)</b>	<b>B C D</b>	
Rated voltage	V	600 600 600
Rated current	A	60 60 5
AWG conductor	AWG	22-4

#### General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Copper alloy
Material of contact surface	silver-plated
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

### Accessories

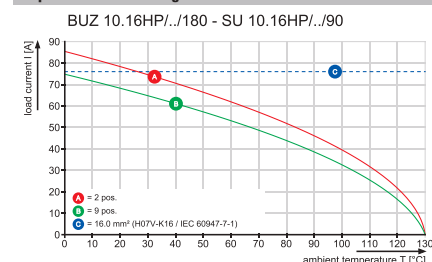
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	18244 10000
KO BU/SU10.16HP WT	259260000
<b>Screwdriver</b>	
SDIS 1.0X5.5X125	2749850000
<b>Crosshead screwdriver</b>	
SDIK PZ2 X 100	2749930000
SDK PZ2 X 100	2749450000

### Ordering data

<b>Solder pin length</b>				
<b>Colour</b>	black			
<b>Pitch 10.16 mm</b>				
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	30	1156600000
3	30.48	1.200	21	1156610000
4	40.64	1.600	18	1156630000

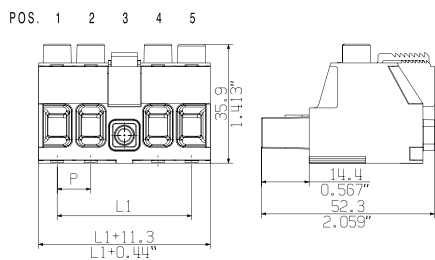
### Representative deratings curve



**BUZ 10.16IT../180MF3**



Dimensioned drawing



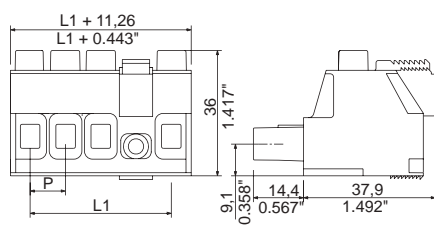
**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>				<b>black</b>
<b>Pitch 10.16 mm</b>				
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	21	1156620000
4	40.64	1.600	18	2000430000

**BUZ 10.16IT../180MF4**



Dimensioned drawing

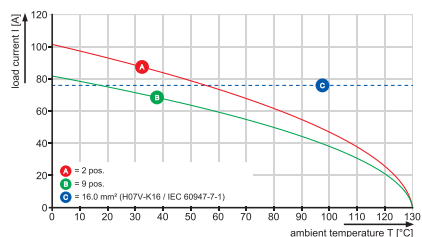


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>				<b>black</b>
<b>Pitch 10.16 mm</b>				
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4	40.64	1.600	18	1156640000

**Additional deratings curves**

BUZ 10.16HP../180 - SU 10.16HP../180



**BUF 10.16IT../180MF SH**



PUSH IN female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>34</b>	<b>34</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

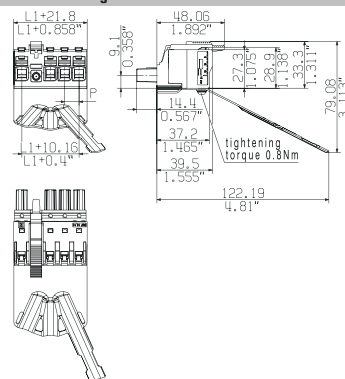
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BUF 10.16IT../180MF2 SH160**



**Dimensioned drawing**



**Accessories**

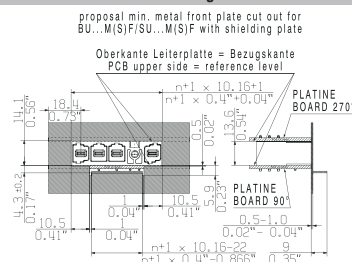
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	<b>1824410000</b>
KO BU/SU10.16HP WT	<b>2592600000</b>
Screwdriver	
SDS 0.8X4.5X125	<b>2749370000</b>

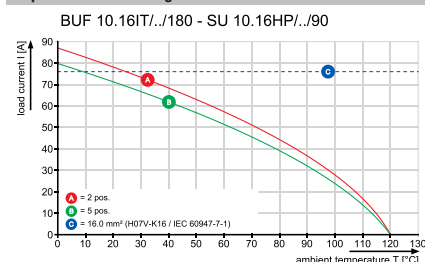
**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	<b>2627260000</b>
4	40.64	1.600	20	<b>2627680000</b>

**Representative dimensional drawing**



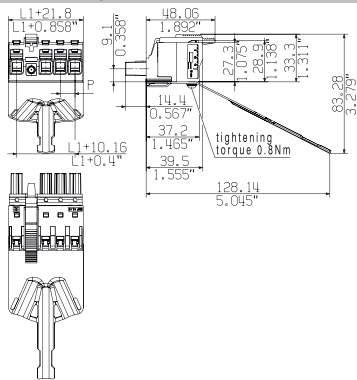
**Representative deratings curve**



**BUF 10.16IT../180MF2 SH180**



**Dimensioned drawing**



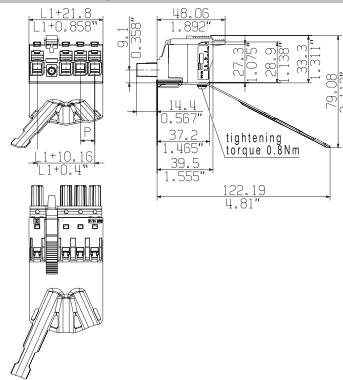
**Ordering data**

<b>Solder pin length</b>					
<b>Colour</b>					<b>black</b>
<b>Pitch 10.16 mm</b>					
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>	
3	30.48	1.200	20	2627710000	
4	40.64	1.600	20	2627720000	

**BUF 10.16IT../180MF2 SH200**



**Dimensioned drawing**

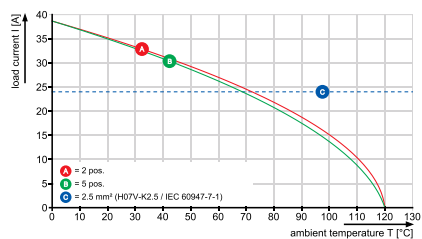


**Ordering data**

<b>Solder pin length</b>					
<b>Colour</b>					<b>black</b>
<b>Pitch 10.16 mm</b>					
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>	
3	30.48	1.200	20	2627760000	
4	40.64	1.600	20	2627770000	

**Additional deratings curves**

BUF 10.16IT../180 - SU 10.16HP../90

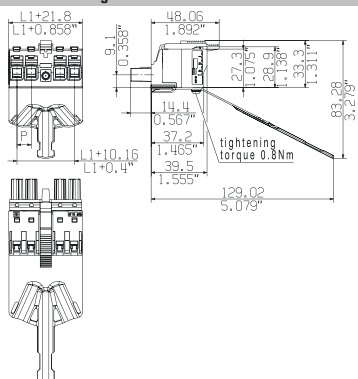




**BUF 10.16IT../180MF3 SH180**



**Dimensioned drawing**



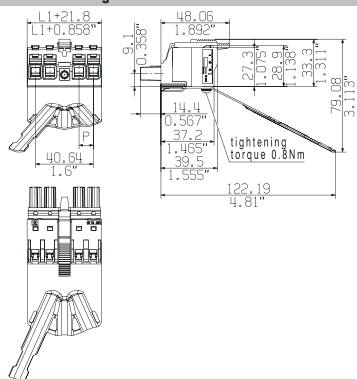
**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>				<b>black</b>
<b>Pitch 10.16 mm</b>				
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627730000</b>
4	40.64	1.600	20	<b>2627740000</b>

**BUF 10.16IT../180MF3 SH200**



**Dimensioned drawing**

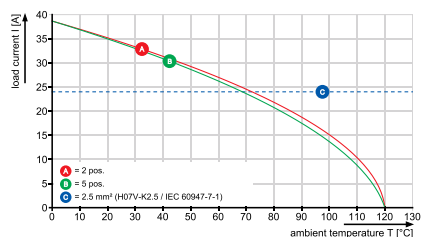


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>				<b>black</b>
<b>Pitch 10.16 mm</b>				
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627780000</b>
4	40.64	1.600	20	<b>2627790000</b>

**Additional deratings curves**

BUF 10.16IT../180 - SU 10.16HP../90





**Connectors for IT power networks, pitch 10.16 mm**  
**BU/SU 10.16 IT series - connection up to 16 mm<sup>2</sup>**

**BUF 10.16IT../180MF SH**



PUSH IN female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>34</b>	<b>34</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

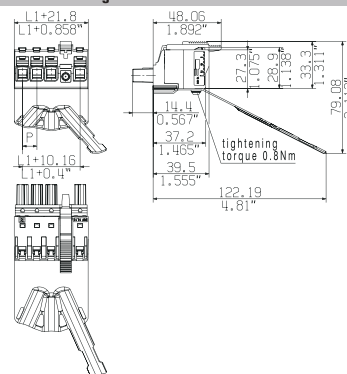
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BUF 10.16IT../180MF4 SH160**



**Dimensioned drawing**



**Accessories**

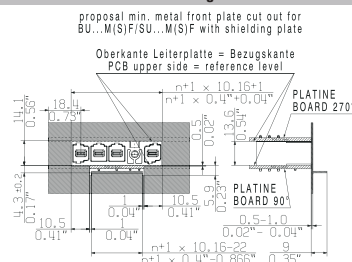
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	2749370000

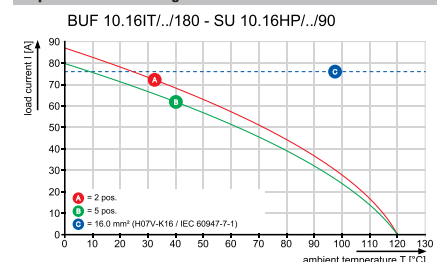
**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>				
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4			20	2638870000

**Representative dimensional drawing**



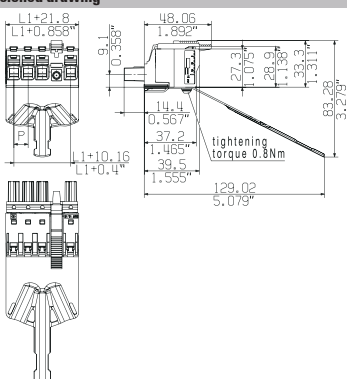
**Representative deratings curve**



BUF 10.16IT../180MF4 SH180



Dimensioned drawing



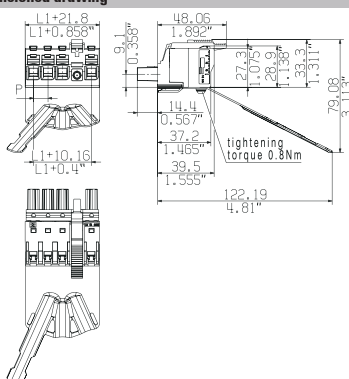
Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	40.64	1.600	20	2627750000

BUF 10.16IT../180MF4 SH200



Dimensioned drawing

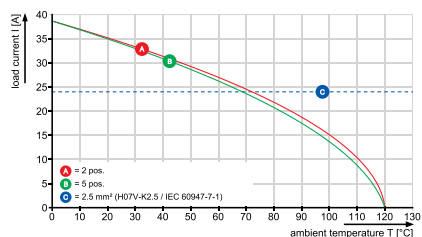


Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	40.64	1.600	20	2627800000

Additional deratings curves

BUF 10.16IT../180 - SU 10.16HP../90



### BUF 10.16IT../180MSF SH



PUSH IN female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>34</b>	<b>34</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

### Product data

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

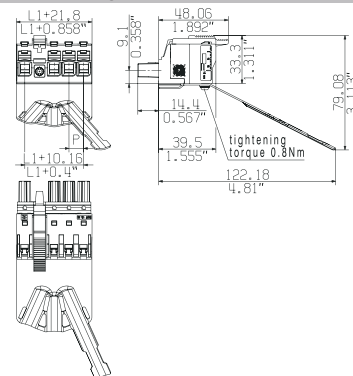
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### BUF 10.16IT../180MSF2 SH160



#### Dimensioned drawing



### Accessories

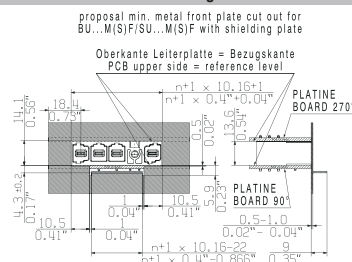
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
Screwdriver	
SDS 0.8X4.5X125	2749370000

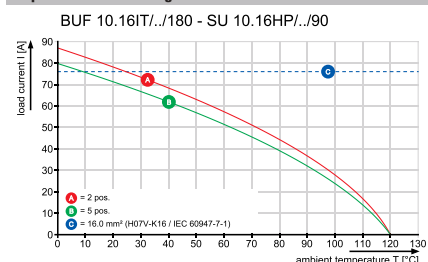
### Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	2627810000
4	40.64	1.600	20	2627820000

### Representative dimensional drawing



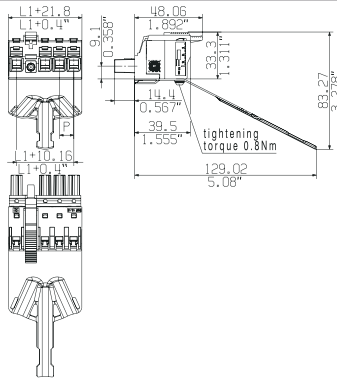
### Representative deratings curve



**BUF 10.16IT../180MSF2 SH180**



**Dimensioned drawing**



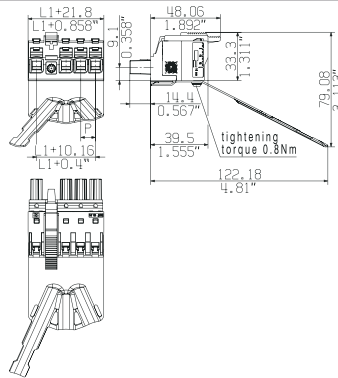
**Ordering data**

<b>Solder pin length</b>					
Colour					black
<b>Pitch 10.16 mm</b>					
Pol.	L1	(inch)	Qty.	Order No.	
3	30.48	1.200	20	2627860000	
4	40.64	1.600	20	2627870000	

**BUF 10.16IT../180MSF2 SH200**



**Dimensioned drawing**

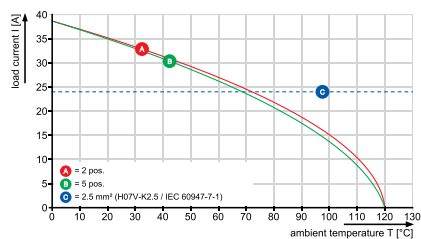


**Ordering data**

<b>Solder pin length</b>					
Colour					black
<b>Pitch 10.16 mm</b>					
Pol.	L1	(inch)	Qty.	Order No.	
3	30.48	1.200	20	2627910000	
4	40.64	1.600	20	2627920000	

**Additional deratings curves**

BUF 10.16IT../180 - SU 10.16HP../90



### BUF 10.16IT../180MSF SH



PUSH IN female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>34</b>	<b>34</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

### Product data

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

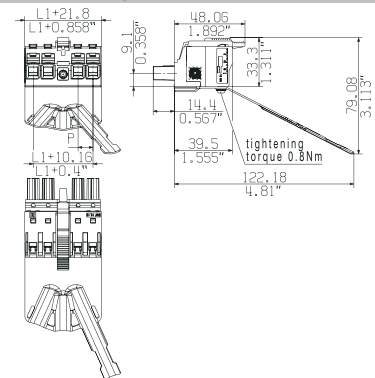
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### BUF 10.16IT../180MSF3 SH160



#### Dimensioned drawing



### Accessories

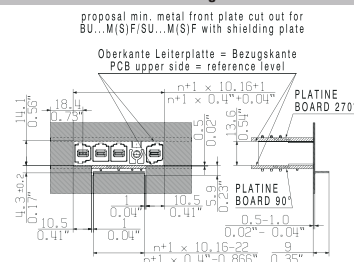
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	<b>1824410000</b>
KO BU/SU10.16HP WT	<b>2592600000</b>
Screwdriver	
SDS 0.8X4.5X125	<b>2749370000</b>

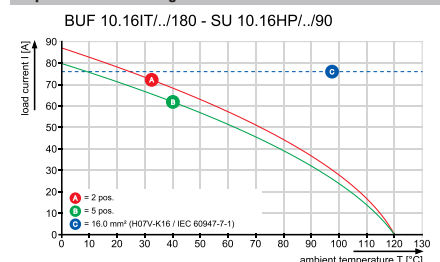
### Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	<b>2627830000</b>
4	40.64	1.600	20	<b>2627840000</b>

### Representative dimensional drawing



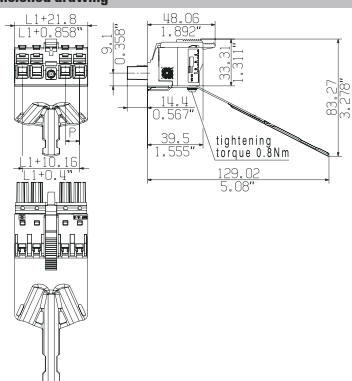
### Representative deratings curve



**BUF 10.16IT../180MSF3 SH180**



**Dimensioned drawing**



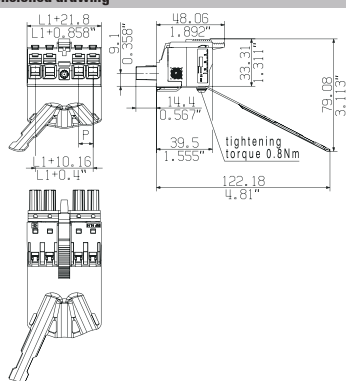
**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627880000</b>
4	40.64	1.600	20	<b>2627890000</b>

**BUF 10.16IT../180MSF3 SH200**



**Dimensioned drawing**

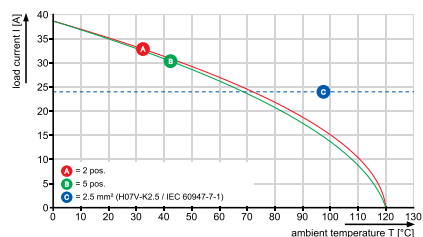


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627930000</b>
4	40.64	1.600	20	<b>2627940000</b>

**Additional deratings curves**

BUF 10.16IT../180 - SU 10.16HP../90



### BUF 10.16IT../180MSF SH



PUSH IN female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	2.5...16
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>
Stranded H07 V-R		...16
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16
Flexible with ferrule	mm <sup>2</sup>	2.5...16
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16
Stripping length	mm	18
Screwdriver blade	mm	0.8 x 4.0
According to norm		DIN 5264
Tightening torque range		
<b>Rated current, max.</b>	<b>A</b>	<b>76 70</b>
At ambient temperature	20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16
Overvoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000 1000 1000</b>
Rated impulse voltage	kV	8 8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	
<b>Rated voltage</b>	<b>V</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>34 34</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>
<b>CSA (Use Group)</b>	<b>B C D</b>	
Rated voltage	V	
Rated current	A	
AWG conductor	AWG	-

#### General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Copper alloy
Material of contact surface	
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

### Product data

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

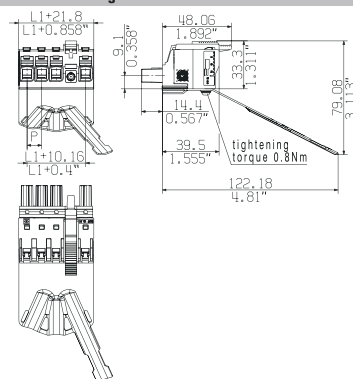
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### BUF 10.16IT../180MSF4 SH160



#### Dimensioned drawing



### Accessories

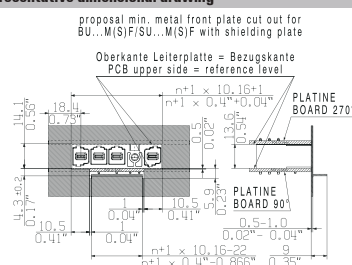
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
Screwdriver	
SDS 0.8X4.5X125	2749370000

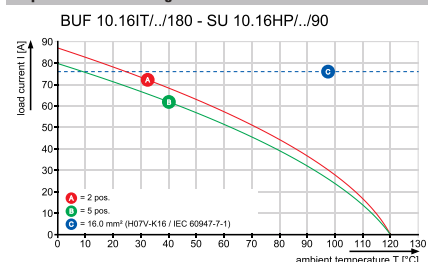
### Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	40.64	1.600	20	2627850000

### Representative dimensional drawing



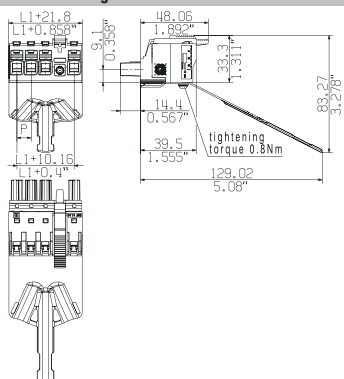
### Representative deratings curve



**BUF 10.16IT../180MSF4 SH180**



**Dimensioned drawing**



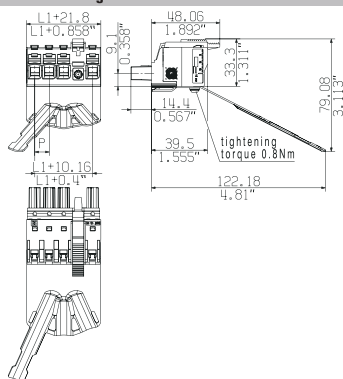
**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4	40.64	1.600	20	2627900000

**BUF 10.16IT../180MSF4 SH200**



**Dimensioned drawing**

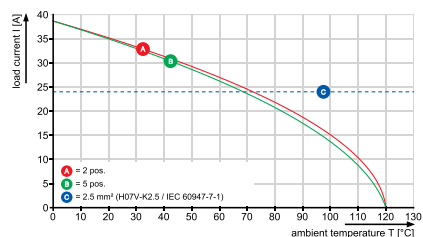


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4	40.64	1.600	20	2627950000

**Additional deratings curves**

BUF 10.16IT../180 - SU 10.16HP../90





### BUF 10.16IT../180MF



PUSH IN female plug in 180° outlet direction for IT networks. Fulfills the requirements of UL1059 for 600 V Use Group C with leading PE contact when used with SU 10.16IT male header. Fulfills the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	2.5...16
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16
Flexible with ferrule	mm <sup>2</sup>	2.5...16
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16
Stripping length	mm	18
Screwdriver blade	mm	0.8 x 4.0
According to norm		DIN 5264

Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overtoltage category		III	III
Pollution severity		3	2

<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
Rated impulse voltage	kV	8	8	8

<b>UL / CUL (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
-----------------------------	----------	----------	----------

<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
----------------------	----------	------------	------------

<b>Rated current</b>	<b>A</b>	<b>34</b>	<b>34</b>
----------------------	----------	-----------	-----------

<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>
----------------------	------------	-------------

<b>CSA (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
------------------------	----------	----------	----------

Rated voltage	V	
---------------	---	--

Rated current	A	
---------------	---	--

AWG conductor	AWG	-
---------------	-----	---

#### General data

Type of insulation material	PA GF
-----------------------------	-------

UL 94 flammability rating	V-0
---------------------------	-----

Contact base material	Copper alloy
-----------------------	--------------

Material of contact surface	silver-plated
-----------------------------	---------------

Pin dimensions = d	mm
--------------------	----

Solder eyelet Ø = D	mm
---------------------	----

Solder eyelet Ø tolerance	mm
---------------------------	----

### Product data

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>

UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

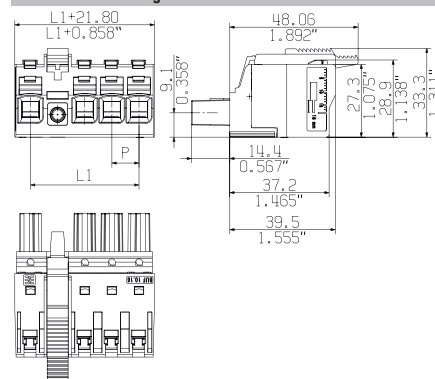
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### BUF 10.16IT../180MF2



#### Dimensioned drawing



### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
Screwdriver	
SDS 0.8X4.5X125	2749370000

### Ordering data

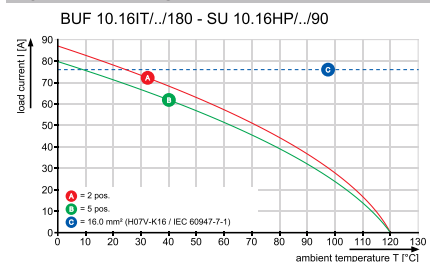
#### Solder pin length

Colour	black
--------	-------

#### Pitch 10.16 mm

Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	36	2493160000
3	30.48	1.200	28	2493180000
4	40.64	1.600	24	2493200000
5	50.80	2.000	36	2586660000
6	60.96	2.400	50	2586770000

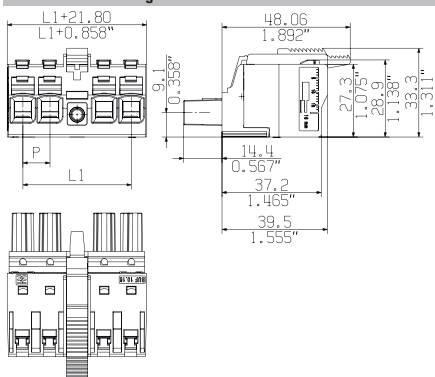
### Representative deratings curve



**BUF 10.16IT../180MF3**



**Dimensioned drawing**



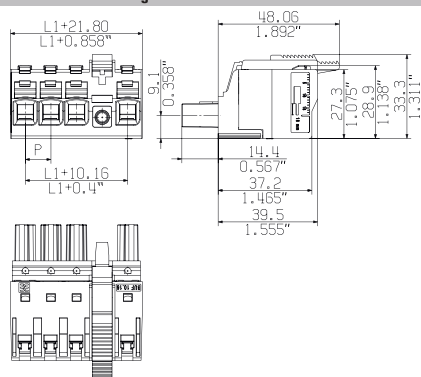
**Ordering data**

Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	30.48	1.200	28	2493190000	
4	40.64	1.600	24	2493210000	
5	50.80	2.000	50	2586700000	
6	60.96	2.400	50	2586780000	

**BUF 10.16IT../180MF4**



**Dimensioned drawing**

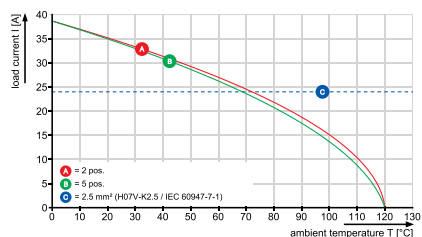


**Ordering data**

Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	40.64	1.600	24	2544950000	
5	50.80	2.000	50	2586710000	
6	60.96	2.400	50	2586790000	

**Additional deratings curves**

BUF 10.16IT../180 - SU 10.16HP../90

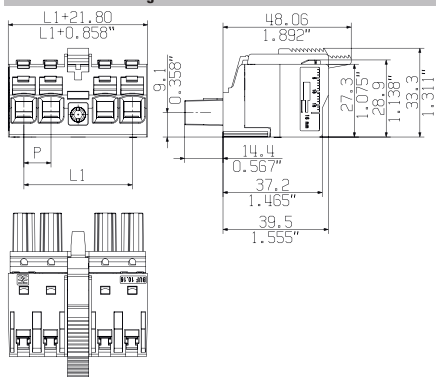




**BUF 10.16IT../180MSF3**



**Dimensioned drawing**



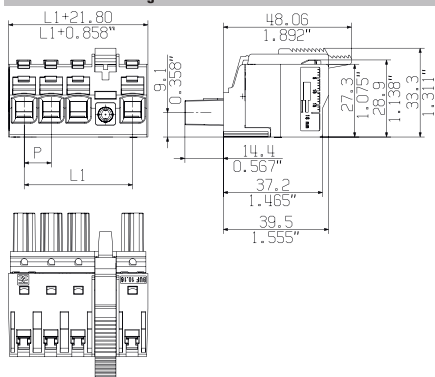
**Ordering data**

Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	30.48	1.200	28	2493250000	
4	40.64	1.600	24	2493270000	
5	50.80	2.000	50	2586740000	
6	60.96	2.400	50	2586830000	

**BUF 10.16IT../180MSF4**



**Dimensioned drawing**

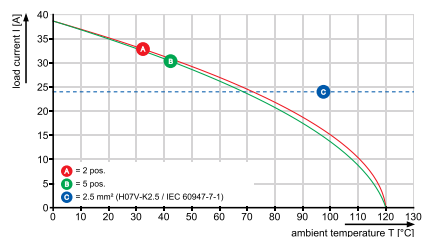


**Ordering data**

Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	40.64	1.600	24	2493280000	
5	50.80	2.000	50	2586750000	
6	60.96	2.400	50	2586840000	

**Additional deratings curves**

BUF 10.16IT../180 - SU 10.16HP../90



# OMNIMATE® Power BL/SL 7.62HP – power class up to 2.55 mm<sup>2</sup> and 24 A

## Custom-fit solutions for compact devices

**Compact power for more safety and efficiency: The compact class in the OMNIMATE® Power BL/SL 7.62HP power connector series integrates previously-conflicting market requirements to provide a custom-fit solution for drive applications.**

This closes the gap between increasing miniaturisation and unlimited 600 V UL approval. The system extension to the 12 kVA power class enables a touch-safe, inverted motor connection with one-handed safety interlock. The PUSH INconnection system also provides a quick and reliable wire connection. Doublesided touch protection guarantees full protection even with inverse voltages. Thus even OMNIMATE® Power's compact class is qualified for use with the DC link bus.

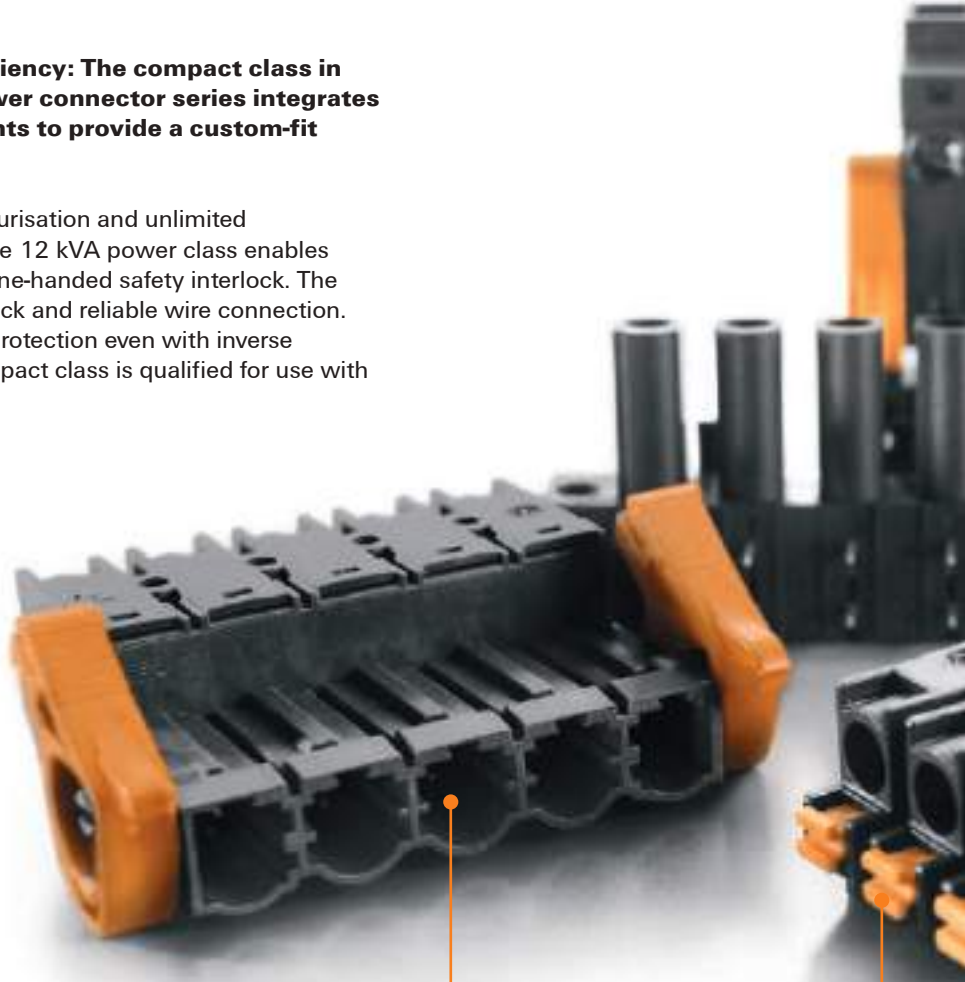
### Compact safety

No additional measures required for DC links or inverse voltage: the inverted versions have finger-safe male header and female header even when not plugged in.



### Compact reliability

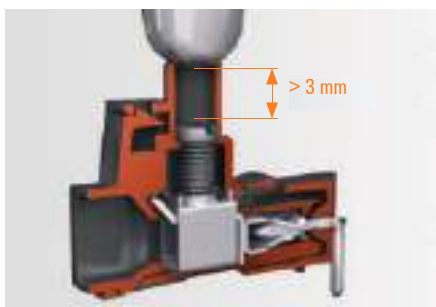
Maintenance-free and vibration-proof connections: quick and simple PUSH IN connections, or the self-fastening Weidmüller steel clamp with plus/minus screw and "Wire Guard".





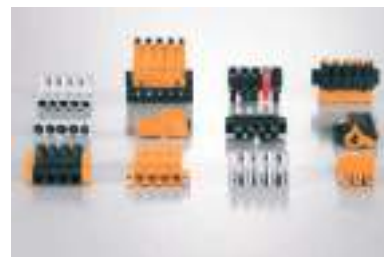
**Compact integration**

No compromises during design and approval: compact and standard-compliant with additional + 3.0 mm finger safety, according to IEC 61800-5-1, and increased creepage and clearance distances according to UL.



**Compact system power**

An overview of OMNIMATE® Power's 12 kVA class: The compact system with either standard or inverted mating profile, with screw or PUSH IN wire connection; optionally with lock & release lever, screw flange or one-handed safety interlock.



**Unrivalled current-carrying capacity**

The highest load capacity in the 12 kVA compact class: with up to 29 A current-carrying capacity at 1.000 V (IEC) with a 4 mm<sup>2</sup> wire cross-section or 18.5 A at 600 V according to UL.



**Individualised configuration**

Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design. More information can be found at <http://galaxy.weidmueller.com>





## Ergonomic operation and simple front design

### OMNIMATE® Power opens up new 270° perspectives

With modular devices, the PCBs are often perpendicular, i.e. located on the right and left, close to the housing wall. Hence the need to arrange the male header in the device so that it points to the middle.

P

To avoid the need to change the direction of access during installation, we have developed a 270° male header. The combination of two opposing PCBs inside the housing, one with a 90° and the other with a 270° pin header. This allows you to keep the screwdriver comfortably in your right hand when wiring.

In addition to the ergonomic operation without the need to change hands, the consistent alignment of the connections also means that the layout of the front panel is particularly simple and clear.

#### Your special advantages:

##### Compact and powerful

We offer you the smallest plug-in PUSH IN connection solution for field wiring up to 600 V UL with a connection cross-section of AWG 12 (2.5 mm<sup>2</sup>).



The solder flange solution for the pin connector on the PCB and the possible flange fixing of the plug section simplify the use of complex device applications with high mechanical demands

**Simple design, standard operation**

All PUSH IN connection components on the front panel are aligned in the same direction thanks to the 270° male header. This allows a continuous operation with the right hand.







**A strong team**

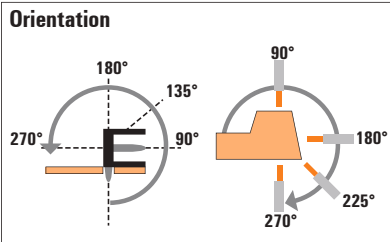
Especially in industrial applications in a vibration environment, the combination of female header BLF7.62HP for 600 V UL and male header SL7.62HP are convincing as a strong "PUSH IN" solution.





<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



Male header



Solder connection



**BL/SL 7.62 series**



Type	SL	SL
Orientation	90°/270°	180°
Flange options	G/F/LF	G/F/LF
Product code numbers	IEC: 800 V/24 A UL: 300 V/20 A	IEC: 800 V/24 A UL: 300 V/20 A

Category	Icon	Model	Orientation	Flange options	Specifications	SL	SL
Female plug			180°	(G)/LR	IEC: 630 V/24 A/0.08 - 2.5 mm <sup>2</sup> UL: 600 V/20 A/AWG 20 - 12		
			180°	(G)/F/LR	IEC: 1.000 V/24 A/0.08 - 2.5 mm <sup>2</sup> UL: 300 V/20 A/AWG 20		
Female header			90°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A		
			180°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A		
Stiftstecker			180°	(G)/F/LR	IEC: 1.000 V/24 A/0,08 - 2,5 mm <sup>2</sup> UL: 300 V/20 A/AWG 20		

**Female plug and header:**  
 (G) = Closed (without flange)  
 F = Screw flange with screw  
 LR = Lock & Release lever

**Male header and plug:**  
 G = Closed (without flange)  
 F = Screw flange with nut  
 LF = Solder flange with nut  
 LR = Lock & Release lever



Spring  
PUSH IN



<b>SLF</b>
180°
G/F/LR
IEC: 1.000 V/24 A/ 0.08 - 2.5 mm <sup>2</sup> UL: 600 V/20 A/ AWG 20 - 12
●
●

**Connectors, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 2.5 mm<sup>2</sup>**

**SL 7.62HP/./90**



Male header with 90° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range in combination with a female plug fulfils the requirements for 600 V acc. to UL508 / UL840 and the enhanced electric shock protection requirements acc. to IEC 68100-5-1.

Variants: flange and solder flanges versions.

**Product data**

IEC: 630 V / 29 A  
 UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

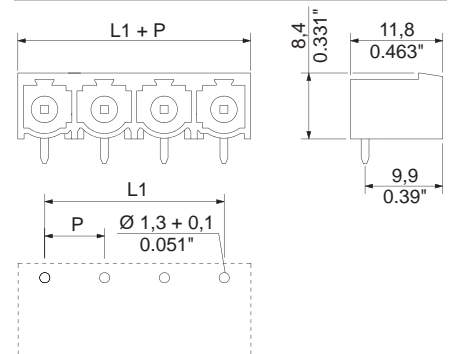
**Note:**

- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SL 7.62HP/./90G**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>29</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500 630</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000

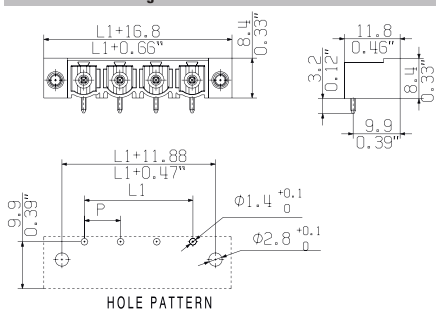
**Ordering data**

Solder pin length		3.2 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1026760000
3	15.24	0.600	100	1026770000
4	22.86	0.900	100	1026780000
5	30.48	1.200	50	1026790000
6	38.10	1.500	50	1059490000
7	45.72	1.800	50	1059500000
8	53.34	2.100	50	1059510000
9	60.96	2.400	50	1059520000
10	68.58	2.700	50	1059530000
11	76.20	3.000	50	1059550000
12	83.82	3.300	50	1059570000

SL 7.62HP/./90F



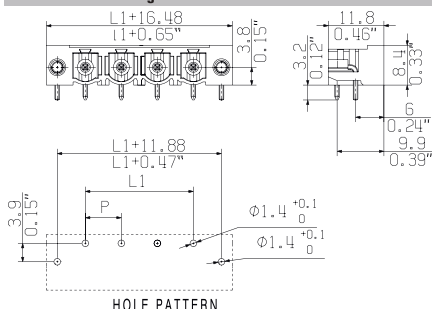
Dimensioned drawing



SL 7.62HP/./90LF



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	1026850000
3	15.24	0.600	1026860000
4	22.86	0.900	1026870000
5	30.48	1.200	1026880000
6	38.10	1.500	1124250000
7	45.72	1.800	1124270000
8	53.34	2.100	1124280000
9	60.96	2.400	1124290000
10	68.58	2.700	1124300000
11	76.20	3.000	1124310000
12	83.82	3.300	1124320000

Ordering data

Solder pin length		3.2 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	1095920000
3	15.24	0.600	1095930000
4	22.86	0.900	1095940000
5	30.48	1.200	1095950000
6	38.10	1.500	1095960000
7	45.72	1.800	1095970000
8	53.34	2.100	1095980000
9	60.96	2.400	1095990000
10	68.58	2.700	1096000000
11	76.20	3.000	1096010000
12	83.82	3.300	1096020000

**Connectors, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 2.5 mm<sup>2</sup>**

**SL 7.62HP/./180**



Male header with 180° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range fulfils, in combination with a female plug, the requirements for 600 V in acc. with UL508-5-1 / UL840 and the enhanced electric shock protection requirements in acc. with IEC 68100-5-1.

Variants: flanges and solder flange versions.

**Product data**

IEC: 630 V / 29 A  
 UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

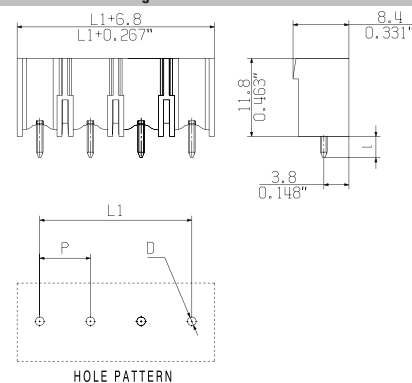
**Note:**

- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SL 7.62HP/./180G**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>29</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500 630</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000

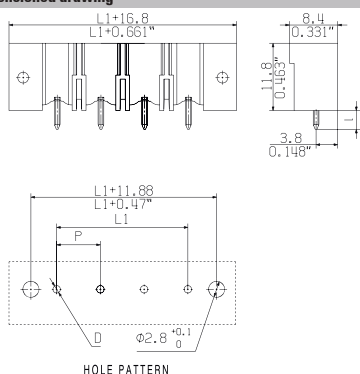
**Ordering data**

<b>Solder pin length</b>		3.2 mm		
<b>Colour</b>		black		
<b>Pitch</b>		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1122550000
3	15.24	0.600	100	1122570000
4	22.86	0.900	100	1122580000
5	30.48	1.200	50	1048980000
6	38.10	1.500	50	1048990000
7	45.72	1.800	50	1122590000
8	53.34	2.100	50	1049000000
9	60.96	2.400	50	1122600000
10	68.58	2.700	50	1122610000
11	76.20	3.000	50	1122640000
12	83.82	3.300	50	1122650000

SL 7.62HP../180F



Dimensioned drawing



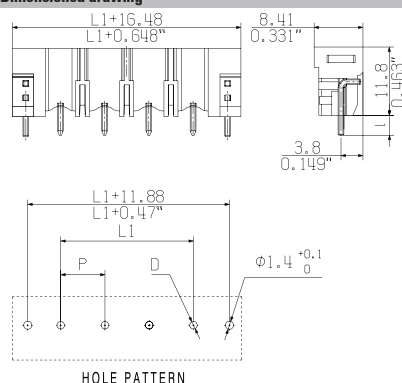
Ordering data

Solder pin length		3.2 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	72 1140870000
3	15.24	0.600	54 1140880000
4	22.86	0.900	42 1140890000
5	30.48	1.200	36 1140900000
6	38.10	1.500	30 1140910000
7	45.72	1.800	24 1140920000
8	53.34	2.100	24 1140930000
9	60.96	2.400	24 1140940000
10	68.58	2.700	18 1140950000
11	76.20	3.000	18 1140960000
12	83.82	3.300	18 1140970000

SL 7.62HP../180LF



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	72 1141090000
3	15.24	0.600	54 1141100000
4	22.86	0.900	42 1141110000
5	30.48	1.200	36 1141120000
6	38.10	1.500	30 1141130000
7	45.72	1.800	30 1141140000
8	53.34	2.100	24 1141150000
9	60.96	2.400	24 1141160000
10	68.58	2.700	18 1141170000
11	76.20	3.000	18 1141180000
12	83.82	3.300	18 1141190000

**Connectors, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 2.5 mm<sup>2</sup>**

**SL 7.62HP/././270**



Pin header with 270° outlet direction. This compact solution for UL-600 V applications in the lower performance range meets the requirements for 600 V in accordance with UL 508 / UL 840 as well as the more stringent touch-safety requirements of IEC 68100-5-1 for electrical drive systems when combined with a female plug.

Variants: solder flange versions.

**Product data**

IEC: 630 V / 27.5 A  
 UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

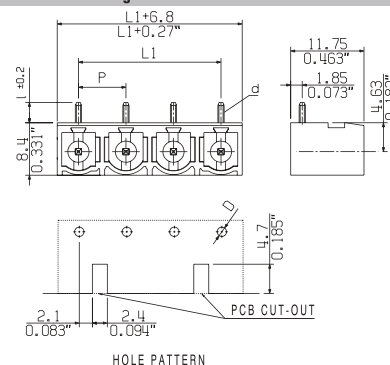
**Note:**

- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SL 7.62HP/270G**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>27.5</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500 630</b>
Rated impulse voltage	kV	4	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000

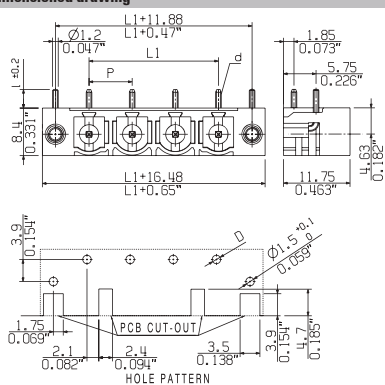
**Ordering data**

Solder pin length		3.2 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1472240000
3	15.24	0.600	100	1472250000
4	22.86	0.900	100	1472260000
5	30.48	1.200	50	1472270000
6	38.10	1.500	50	1472280000
7	45.72	1.800	50	1472290000
8	53.34	2.100	50	1472310000
9	60.96	2.400	50	1472320000
10	68.58	2.700	50	1472330000
11	76.20	3.000	50	1472340000
12	83.82	3.300	50	1472350000

SL 7.62HP/270LF



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1472360000
3	15.24	0.600	100	1472370000
4	22.86	0.900	100	1472380000
5	30.48	1.200	50	1472390000
6	38.10	1.500	50	1472410000
7	45.72	1.800	50	1472420000
8	53.34	2.100	50	1472430000
9	60.96	2.400	50	1472440000
10	68.58	2.700	50	1472450000
11	76.20	3.000	50	1472460000
12	83.82	3.300	50	1472470000



SLF 7.62HP../180 SH



180° inverted male header with PUSH IN connection technology for field wiring in 2.5 mm<sup>2</sup> with a 7.62 pitch. Also ideal as a touch-safe solution for inverse voltages. Meets the requirements of UL1059 600 V class C and IEC 61800-5-1.

Variants: available without flange, with external flange, with release latch.

Including pre-assembled pluggable shield connection for large area shielding in your application.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.08...2.5	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...2.5</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...2.5	
Flexible with ferrule	mm <sup>2</sup>	0.5...1.5	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...1.5	
Stripping length	mm	10	
Screwdriver blade	mm		
According to norm		DIN 5264-A	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>24</b>	<b>23.8</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>1000 1000</b>
Rated impulse voltage	kV	6	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 24 A / 0.5 - 2.5 mm<sup>2</sup>  
UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmuller.com

Note:

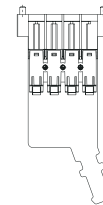
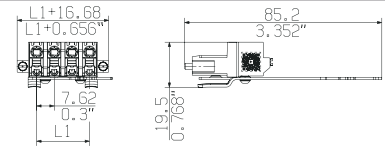
- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

SLF 7.62HP../180FSH160



UL 600 V

Dimensioned drawing



Ordering data

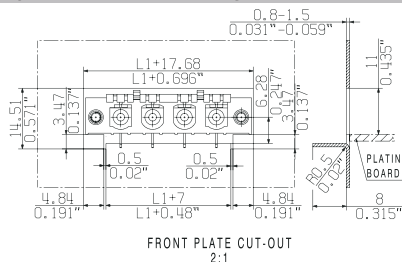
Solder pin length				
Colour	black			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	40	2632730000

Accessories

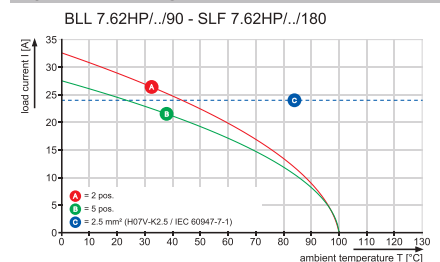
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.6X3.5X100	2749340000
	SDIS 0.6X3.5X100	2749810000

Representative dimensional drawing



Representative deratings curve

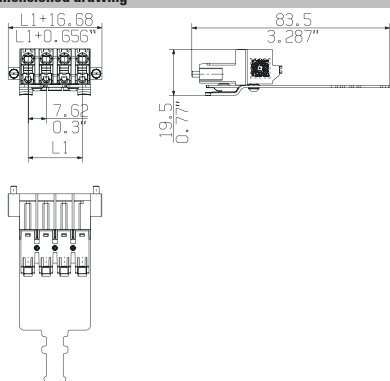


SLF 7.62HP../180FSH180



UL  
600V

Dimensioned drawing



Ordering data

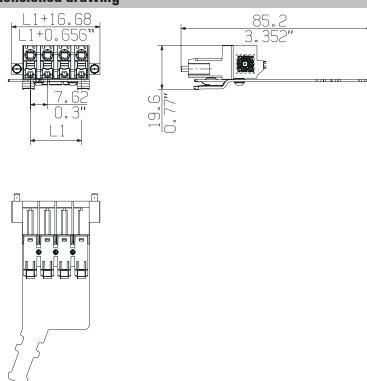
Solder pin length				
Colour				black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	40	2614140000

SLF 7.62HP../180FSH200



UL  
600V

Dimensioned drawing

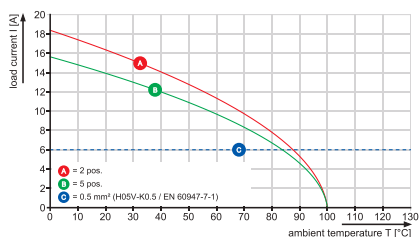


Ordering data

Solder pin length				
Colour				black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	40	2632770000

Additional deratings curves

BLL 7.62HP../190 - SLF 7.62HP../180



SLF 7.62HP../180 SH



180° inverted male header with PUSH IN connection technology for field wiring in 2.5 mm<sup>2</sup> with a 7.62 pitch. Also ideal as a touch-safe solution for inverse voltages. Meets the requirements of UL1059 600 V class C and IEC 61800-5-1.

Variants: available without flange, with external flange, with release latch.

Including pre-assembled pluggable shield connection for large area shielding in your application.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.08...2.5	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...2.5</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...2.5	
Flexible with ferrule	mm <sup>2</sup>	0.5...1.5	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...1.5	
Stripping length	mm	10	
Screwdriver blade	mm		
According to norm		DIN 5264-A	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>24</b>	<b>23.8</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>1000 1000</b>
Rated impulse voltage	kV	6	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 24 A / 0.5 - 2.5 mm<sup>2</sup>  
UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

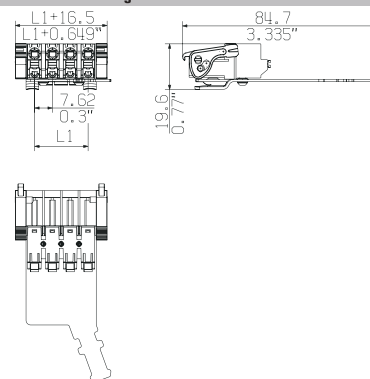
Note:

- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

SLF 7.62HP../180LRSH160



Dimensioned drawing



Ordering data

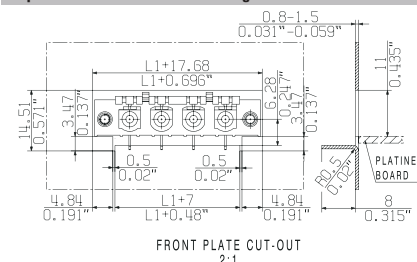
Solder pin length				
Colour	black			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	40	2632780000

Accessories

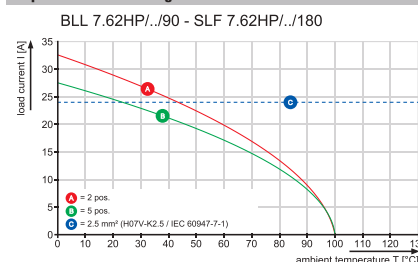
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.6X3.5X100	2749340000
	SDIS 0.6X3.5X100	2749810000

Representative dimensional drawing



Representative deratings curve



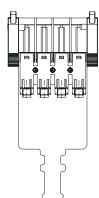
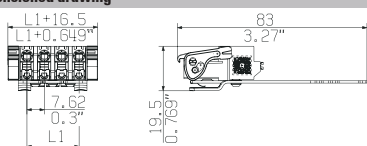
SLF 7.62HP../180LRSH180



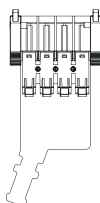
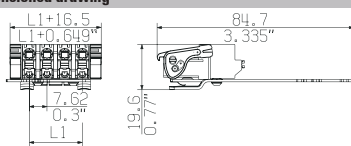
SLF 7.62HP../180LRSH200



Dimensioned drawing



Dimensioned drawing



Ordering data

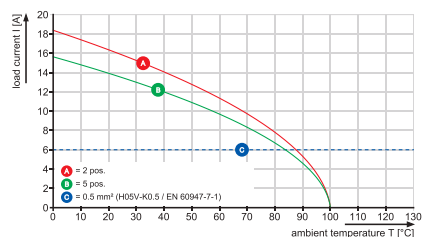
Solder pin length				
Colour				black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	40	2614190000

Ordering data

Solder pin length				
Colour				black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	40	2632790000

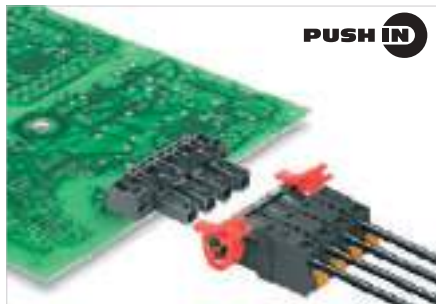
Additional deratings curves

BLL 7.62HP../190 - SLF 7.62HP../180



**Connectors, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 2.5 mm<sup>2</sup>**

**SLF 7.62HP../180**



**PUSH IN**

Male plug with PUSH IN spring connection in 180° outlet direction. Also perfect for finger-safe solutions involving inverse voltages. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC systems.

- Available with screw flange (F) and lock and release-levers (LR).

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.08...2.5	
<b>Solid core H05(07) V-U</b>	mm <sup>2</sup>	<b>0.5...2.5</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...2.5	
Flexible with ferrule	mm <sup>2</sup>	0.5...1.5	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...1.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
		According to norm	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>24</b>	<b>23.8</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	2.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>1000 1000</b>
Rated impulse voltage	kV	6	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 24 A / 0.5 - 2.5 mm<sup>2</sup>  
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

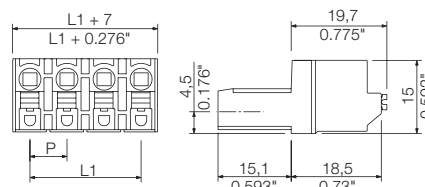
**Note:**

- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SLF 7.62HP../180G**



**Dimensioned drawing**



**Accessories**

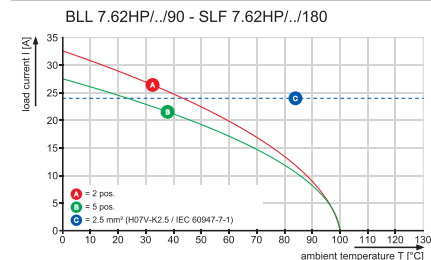
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.6X3.5X100	2749340000
	SDIS 0.6X3.5X100	2749810000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1043590000
3	15.24	0.600	84	1043600000
4	22.86	0.900	60	1043610000
5	30.48	1.200	48	1043620000

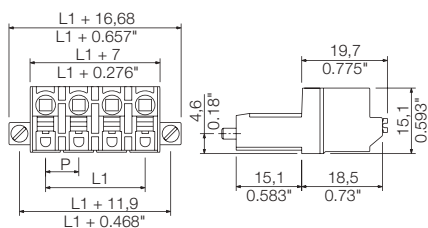
**Representative deratings curve**



SLF 7.62HP../180F



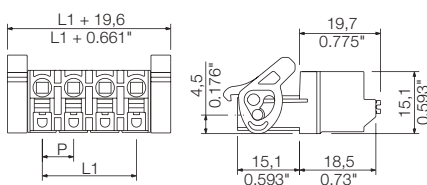
Dimensioned drawing



SLF 7.62HP../180LR



Dimensioned drawing



Ordering data

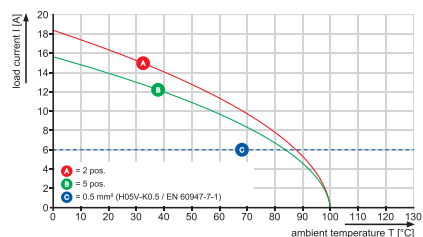
Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043670000	
3	15.24	0.600	54	1043680000	
4	22.86	0.900	42	1043690000	
5	30.48	1.200	36	1043700000	

Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043750000	
3	15.24	0.600	54	1043760000	
4	22.86	0.900	42	1043770000	
5	30.48	1.200	36	1043780000	

Additional deratings curves

BLL 7.62HP../190 - SLF 7.62HP../180



**Connectors, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 2.5 mm<sup>2</sup>**

**BLZ 7.62HP../180**



Female plug with clamping yoke screw connection in 180° outlet direction. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with lock and release-levers (LR) and screw flange on request.

**Product data**

IEC: 630 V / 29 A / 0.2 - 4 mm<sup>2</sup>  
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

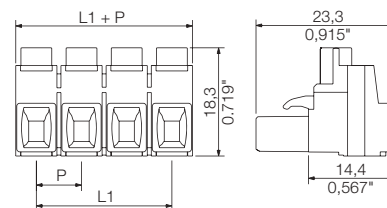
**Note:**

- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BLZ 7.62HP../180**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.08...4	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...4</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...4	
Flexible with ferrule	mm <sup>2</sup>	0.2...2.5	
Ferrule with plastic collar	mm <sup>2</sup>	0.2...2.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.6 x 3.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.4...0.5	
<b>Rated current, max.</b>	<b>A</b>	<b>29</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	2.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500 630</b>
Rated impulse voltage	kV	6	6 4
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

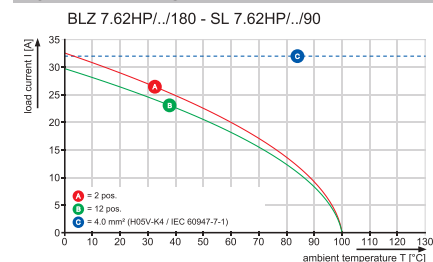
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	<b>1573010000</b>
BLZ/SL KO BK BX	<b>1545710000</b>
Screwdriver	
SDS 0.6X3.5X100	<b>2749340000</b>
SDIS 0.6X3.5X100	<b>2749810000</b>

**Ordering data**

Solder pin length				
Colour	<b>black</b>			
Pitch	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	<b>1059580000</b>
3	15.24	0.600	100	<b>1059590000</b>
4	22.86	0.900	100	<b>1059600000</b>
5	30.48	1.200	50	<b>1049010000</b>
6	38.10	1.500	50	<b>1049020000</b>
7	45.72	1.800	50	<b>1059610000</b>
8	53.34	2.100	50	<b>1049030000</b>
9	60.96	2.400	50	<b>1059620000</b>
10	68.58	2.700	50	<b>1059630000</b>
11	76.20	3.000	50	<b>1059640000</b>
12	83.82	3.300	50	<b>1059670000</b>

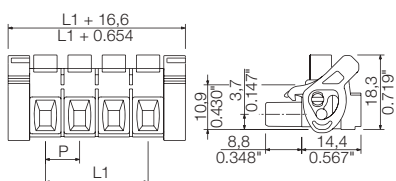
**Representative deratings curve**



**BLZ 7.62HP../180LR**



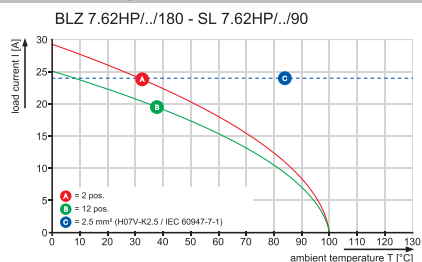
Dimensioned drawing



**Ordering data**

Solder pin length				
Colour				black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	60	1093430000
3	15.24	0.600	45	1093440000
4	22.86	0.900	35	1093450000
5	30.48	1.200	30	1093460000
6	38.10	1.500	25	1164960000
7	45.72	1.800	20	1164970000
8	53.34	2.100	20	1164980000
9	60.96	2.400	15	1164990000
10	68.58	2.700	15	1165000000
11	76.20	3.000	15	1165010000
12	83.82	3.300	15	1165020000

**Additional deratings curves**





**Connectors, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 2.5 mm<sup>2</sup>**

**BLF 7.62HP../180**



Female plug with PUSH IN spring connection in 180 ° outlet direction. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with screw flange (F) and lock and release-levers (LR).

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.08...2.5	
<b>Solid core H05(07) V-U</b>	mm <sup>2</sup>	<b>0.5...1.5</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...2.5	
Flexible with ferrule	mm <sup>2</sup>	0.5...2.5	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...2.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>24</b>	<b>23.8</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	2.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>1000 1000</b>
Rated impulse voltage	kV	6	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	21	21 5
AWG conductor	AWG	20-12	
<b>General data</b>			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 24 A / 0.5 - 2.5 mm<sup>2</sup>  
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

**Note:**

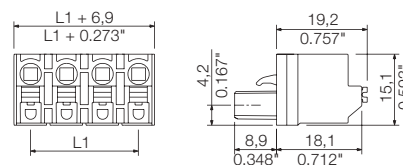
- Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool recommended.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BLF 7.62HP../180**

with test point



**Dimensioned drawing**



**Accessories**

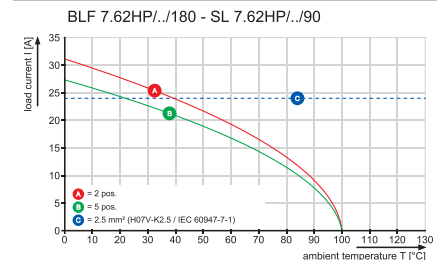
**Note:** Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 0.5X3.0X80	<b>2749330000</b>
	SDIS 0.5X3.0X100	<b>2749800000</b>
Pressing tool		
	PZ 6/5	<b>9011460000</b>

**Ordering data**

Solder pin length				
Colour	black			
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	<b>1043830000</b>
3	15.24	0.600	78	<b>1043840000</b>
4	22.86	0.900	60	<b>1043850000</b>
5	30.48	1.200	48	<b>1043860000</b>
6	38.10	1.500	36	<b>1227340000</b>
7	45.72	1.800	30	<b>1227350000</b>
8	53.34	2.100	30	<b>1227360000</b>
9	60.96	2.400	24	<b>1227370000</b>
10	68.58	2.700	24	<b>1227380000</b>
11	76.20	3.000	18	<b>1227390000</b>
12	83.82	3.300	18	<b>1227410000</b>

**Representative deratings curve**

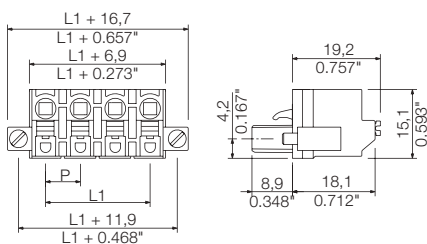


### BLF 7.62HP../180F

with test point



Dimensioned drawing

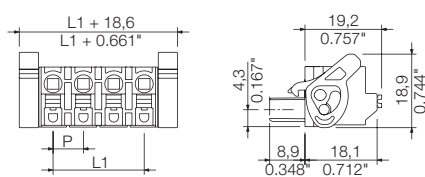


### BLF 7.62HP../180LR

with test point



Dimensioned drawing



#### Ordering data

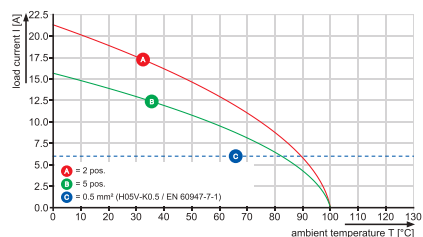
Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043910000	
3	15.24	0.600	54	1043920000	
4	22.86	0.900	42	1043930000	
5	30.48	1.200	36	1043940000	
6	38.10	1.500	30	1227490000	
7	45.72	1.800	24	1227510000	
8	53.34	2.100	24	1227520000	
9	60.96	2.400	18	1227530000	
10	68.58	2.700	18	1227540000	

#### Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043990000	
3	15.24	0.600	54	1044000000	
4	22.86	0.900	42	1044010000	
5	30.48	1.200	36	1044020000	
6	38.10	1.500	30	1227420000	
7	45.72	1.800	24	1227430000	
8	53.34	2.100	24	1227440000	
9	60.96	2.400	18	1227450000	
10	68.58	2.700	18	1227460000	

#### Additional deratings curves

BLF 7.62HP../180 - SL 7.62HP../90



**Connectors, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 2.5 mm<sup>2</sup>**

**BLL 7.62HP../90**



Touch-safe female header with 90° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Variants: flange and solder flange fastening.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>24</b>	<b>24</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>630 630</b>
Rated impulse voltage	kV	6	6 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	150 300
Rated current	A	20	20 10
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.4 x 1.00	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 630 V / 24 A  
 UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

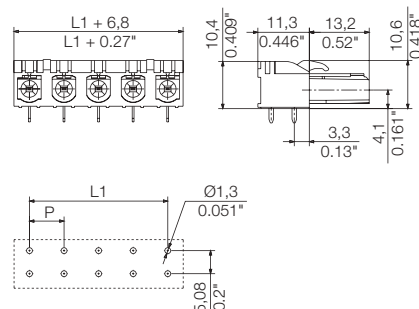
**Note:**

- Additional variants on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BLL 7.62HP../90G**



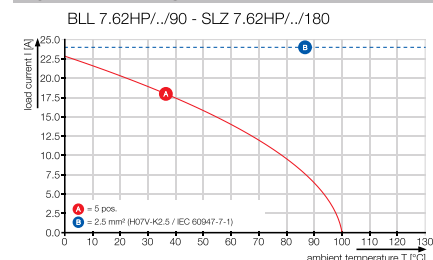
**Dimensioned drawing**



**Ordering data**

<b>Solder pin length</b>	3.2 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	7.62	0.300	126	1043230000
3	15.24	0.600	84	1043240000
4	22.86	0.900	60	1043250000
5	30.48	1.200	48	1043260000

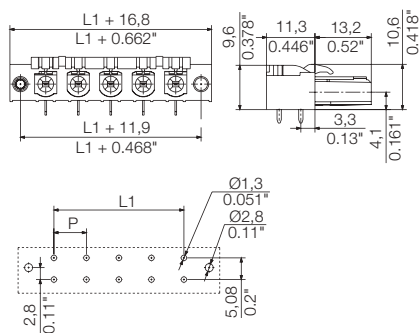
**Representative deratings curve**



**BLL 7.62HP../90F**



Dimensioned drawing



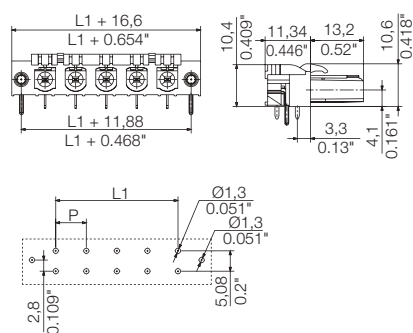
**Ordering data**

Solder pin length		3.2 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1043270000
3	15.24	0.600	54	1043280000
4	22.86	0.900	42	1043290000
5	30.48	1.200	36	1043300000

**BLL 7.62HP../90LF**



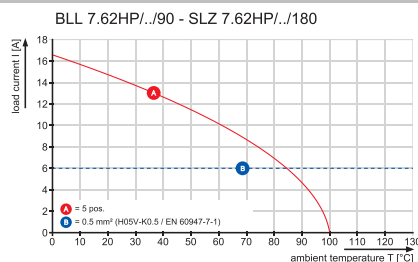
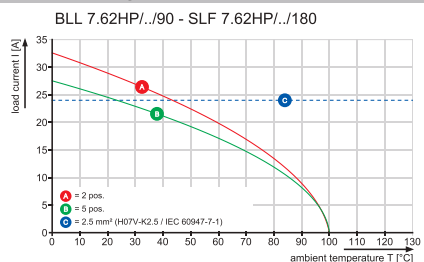
Dimensioned drawing



**Ordering data**

Solder pin length		3.2 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1095640000
3	15.24	0.600	54	1095650000
4	22.86	0.900	42	1095660000
5	30.48	1.200	36	1095670000

**Additional deratings curves**



**Connectors, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 2.5 mm<sup>2</sup>**

**BLL 7.62HP../180**



Touch-safe female header with 180° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Variants: flange and solder flange fastening.

**Product data**

IEC: 630 V / 24 A  
 UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

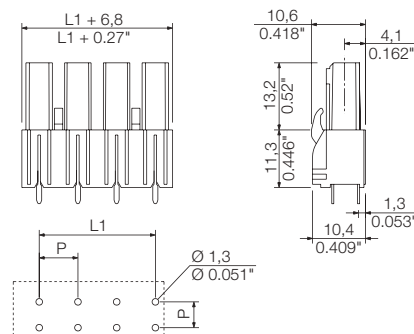
**Note:**

- Additional variants on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BLL 7.62HP../180G**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade			mm
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>24</b>	<b>24</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>630 630</b>
Rated impulse voltage	kV	6	6 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	150 300
Rated current	A	20	20 10
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.4 x 1.00	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

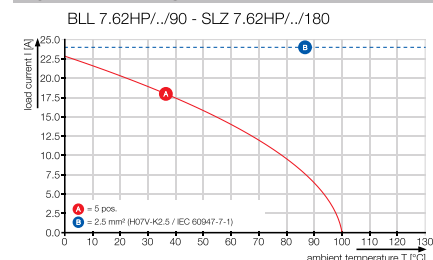
**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

**Ordering data**

<b>Solder pin length</b>	<b>3.2 mm</b>		
<b>Colour</b>	<b>black</b>		
<b>Pitch</b>	<b>7.62 mm</b>		
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty. Order No.</b>
2	7.62	0.300	126 <b>1122070000</b>
3	15.24	0.600	84 <b>1122080000</b>
4	22.86	0.900	60 <b>1122090000</b>
5	30.48	1.200	48 <b>1122100000</b>

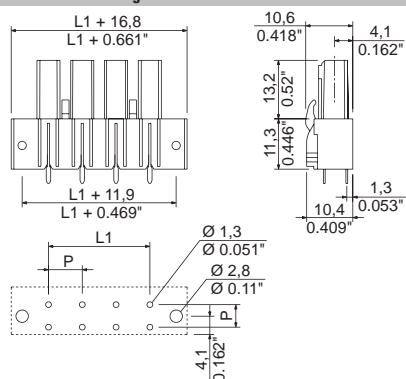
**Representative deratings curve**



**BLL 7.62HP../180F**



**Dimensioned drawing**



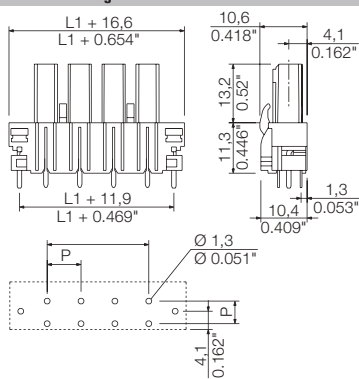
**Ordering data**

Solder pin length		3.2 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	72 <b>1122110000</b>
3	15.24	0.600	54 <b>1122120000</b>
4	22.86	0.900	42 <b>1122130000</b>
5	30.48	1.200	36 <b>1122140000</b>

**BLL 7.62HP../180LF**



**Dimensioned drawing**

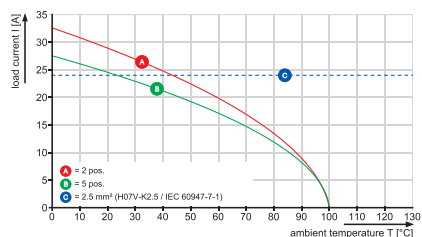


**Ordering data**

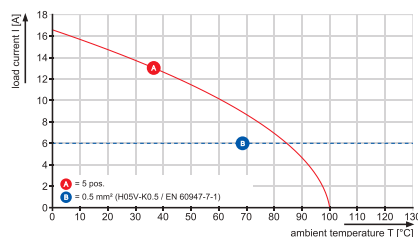
Solder pin length		3.2 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	72 <b>1134080000</b>
3	15.24	0.600	54 <b>1134090000</b>
4	22.86	0.900	42 <b>1134110000</b>
5	30.48	1.200	36 <b>1134120000</b>

**Additional deratings curves**

BLL 7.62HP../90 - SLF 7.62HP../180



BLL 7.62HP../90 - SLZ 7.62HP../180



# OMNIMATE® Power BV/SV 7.62HP – power class from 6 mm<sup>2</sup> and 41 A

## Custom-fit high-powered solutions

**More power reserves for more load capacity: The OMNIMATE® Power SV / BV 7.62HP mid-level class of power connection systems is the top performer of the HP series. It features a large clamping range, increased overload capacity and the widest selection of variants and accessories.**



HP means High Performance – this performance covers a great deal: the full rated current up to 50 °C without derating, unlimited 600 V approval according to UL, and the additional finger safety for 400 V-TN systems (+ 3.0 mm) in compliance with the application directive IEC 61800-5-1.

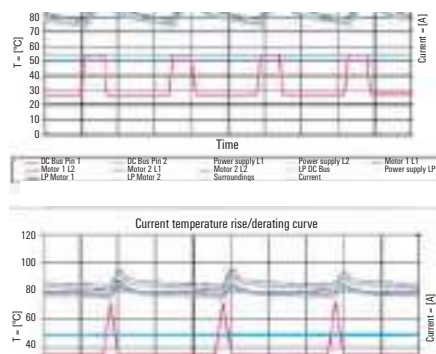
### Maximum safety

Safe for both man and machine with bi-directional finger safety: also when not plugged in and covering inverse voltages from power electronics.



### Maximum performance

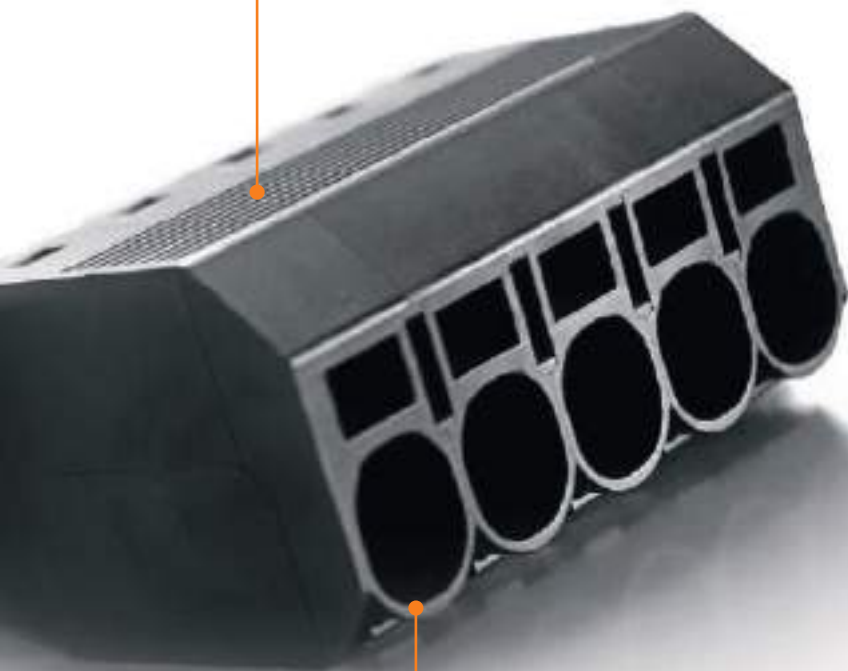
Full current rating at 40 °C ambient temperature is a mandatory requirement in drive applications. What really makes the difference here is real-world, application-based overload and overheating capacities.





**Maximum user-friendliness**

Quick, simple plug and release: with the one-handed safety flange – convenient for the user and safe for the application.



**Maximum efficiency**

Tool-free simplicity: quick PUSH IN connection mechanism and automatic, convenient snap-in with one-handed safety interlock.



**High system performance**

An overview of the 28-kVA class of OMNIMATE® Power: The HP system has been leading the way with its tool-free rapid interlock, installation-safe creepage and clearance distances, and application-based versioning scheme. This integrated strategy of system expansion includes a one-handed safety flange and wide range of innovative extras.



**Individualised configuration**

Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design.





## Convenient connection of stripped short wires OMNIMATE® Power with openable PUSH IN connection

Shielded cables for power electronics are stripped as short as possible for reasons of electromagnetic compatibility (EMC). Connection with large PUSH IN connectors is correspondingly complex. The same applies to cables with small cross-sections where often a “third hand” is missing or the use of special tools gets necessary.

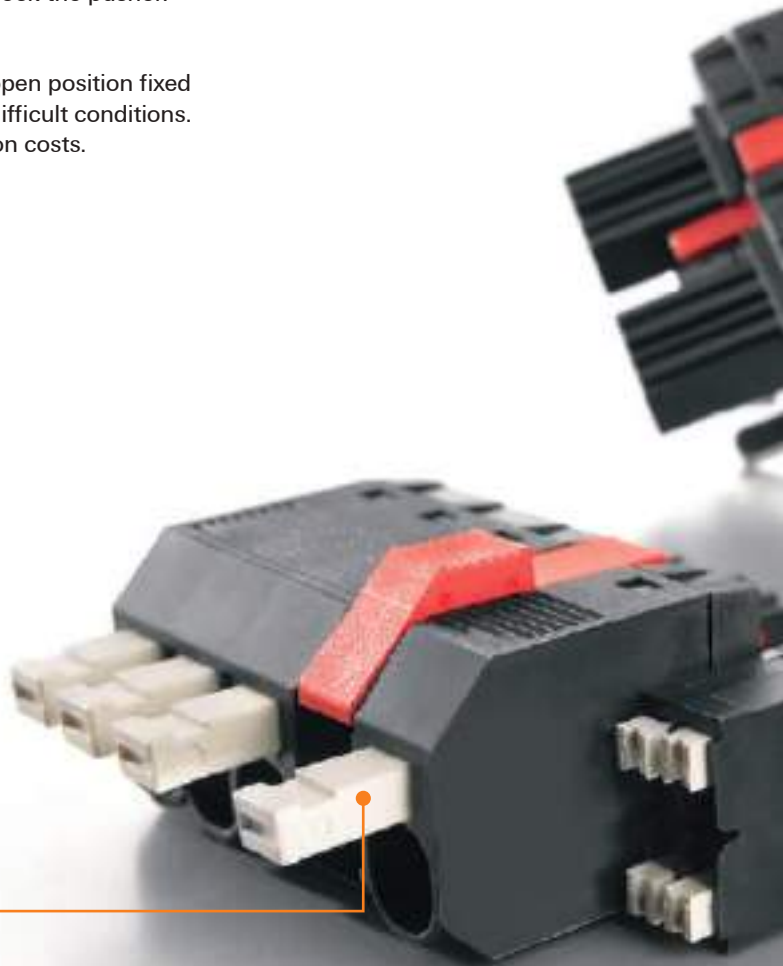
Our BVFL 7.62HP simplifies and accelerates this process without the need of special tools. The combination of PUSH IN connection technology and a Pusher which can be locked in the open position allows an easy insertion of short stripped cables or of thin wires into the open terminal point. Subsequently, by pushing the pusher sideways with the hand, you can simply unlock the pusher.

The proven PUSH IN function remains unrestricted, while the in open position fixed terminal point allows a comfortable and easy connection under difficult conditions. Make use of the significant time savings to reduce your installation costs.

### Large PUSH IN connector, small wire cross-section

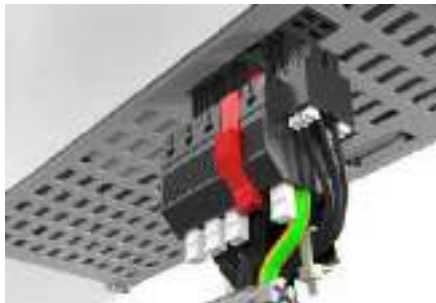
Even with ferrules, because of the high flexibility it is difficult to insert conductors with a low cross section into these connector. Our simple solution in three steps:

- 1) Open the terminal point
- 2) Insert conductors
- 3) Close the terminal point using sideways pressure



**Short-stripped wires**

The PUSH IN connector with a pusher in an open fixed position allows a quick and easy wiring without special tools. It also avoids the risk of a not fully inserted conductor.



**Your special advantages:**

**More advantages in handling,  
reduced installation costs**

As the only PUSH IN connector so far available on the market, our BVFL 7.62HP has a special clamping point that can be locked in the open position.



Work quickly while avoiding errors - convenient connectivity solutions with latchable open terminal point reduces the installation time in the field significantly for example in frequency inverters

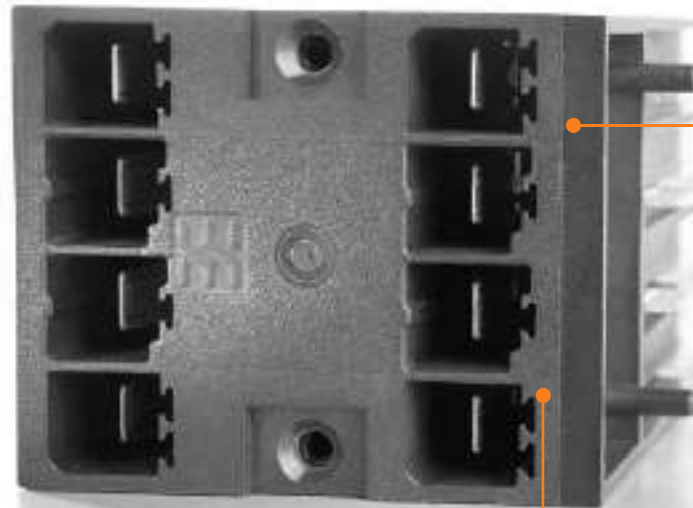
## Implement complex supply solutions in the smallest of spaces OMNIMATE® Power – the compact, two-row connection solution

The demand for ever-smaller drive regulators with increasingly high performance ratings requires complex solutions in terms of the connection systems. The major challenge here is ensuring compliance with the existing standards.

P

The new double-level OMNIMATE® Power SVD 7.62HP male header minimises the amount of space required on the PCB, thereby creating space for other components. This extra space can be used for the integration of additional functions on the front of the device.

The two connection levels mean that the SVD 7.62HP can be used to implement complex solutions in extremely small spaces. Device widths of just 50 mm are sufficient to supply 2 motors, while still meeting the approval criteria in accordance with UL 600 V.



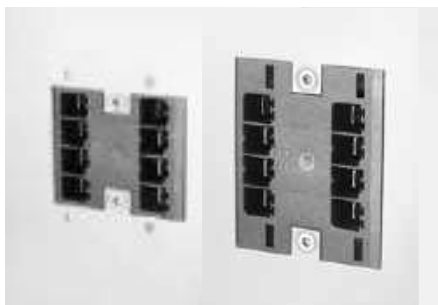
### Optional cable shielding

The combination with the BVF 7.62HP ensures a reliable connection between the cable shielding and the device housing, thereby guaranteeing high EMC safety. The screw mount is easy to operate, and meets all requirements in the field.



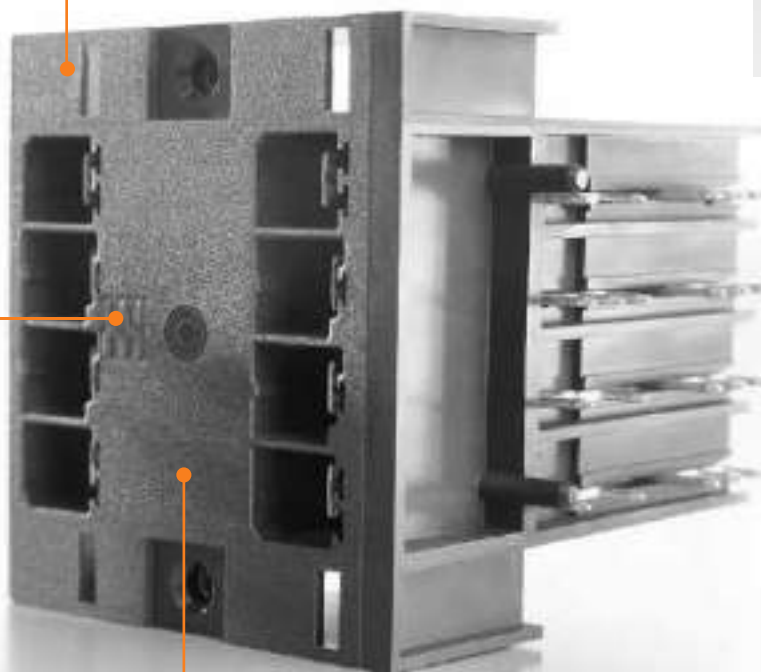
**The OMNIMATE® Power series for versatile combination options**

The new SVD 7.62HP can be combined with all BVZ 7.62HP and BVF 7.62HP female plugs in the OMNIMATE® Power series.



**Solutions with PUSH IN connection**

Can be implemented in combination with female plug BVF (BVFL) 7.62HP. For especially quick and easy installation without the need for tools. Available with or without flange fastening – optional with screw flange.



**Solutions with screw connections**

Can be implemented in combination with female plug BVZ 7.62HP. Available without extra fastening or, optionally, as a flange design – e. g. for applications in medium-voltage systems.



**Your special advantages:**

**More design flexibility for the front of the device and the PCB**

The superior solution for when multiple axes need to be plugged into the device in a very small space. Despite the very compact dimensions, the cable shielding can be connected to the front of the device.



With servo regulators in particular, the SVD 7.62HP allows for more complexity than ever before, thanks to the two connection levels for female plugs with conventional screw connection or PUSH IN connection technology. With additional flange fastening on request, and with the option of connecting the cable shielding to the device housing.

## Safe-to-touch, solid and pluggable

### Our feed-through terminals also support thick housing walls

A cable feed-through connection for housing or cabinet walls should be robust and easy to handle. This claim gets fast to a challenge when we talk about the thickness of die-cast aluminium housings.

P

Our pluggable panel feed-through connection SVF 7.62HP SFMF (SFBMF) in IP 20 copes this job perfectly. Thanks to the two-sided finger safety clearance of 3 mm, this solution can be used safely even in applications with backwards voltages and is therefore suitable for use in an industrial environment without an inverted mating profile. One hand is enough to plug the counterpart BVF 7.62HP 180 MF and to latch them.

Feel free to use this universal plug device at control cabinets. Or use it for the power-input and power-output connection of electronic housings.



#### Pin number extension to > 4 pins

Use our SVF/BVF 7.62HP COUPLE SET for extensions. Each of the two mating partners can thus be connected back-to-back to a 2-row connector with a maximum of 2 x 4 poles.



**One-handed operation with locking**

The mating partner BVF 7.62HP impresses with its one-hand operation and automatic snap-in. If required by a directive, it can be optionally secured with an additional screw.



**Panel feed-through up to 16 mm as per UL**

Without additional measures for maintaining the clearance and creepage distances as per UL, two versions for walls up to 2 mm or up to 16 mm are available. The maximum wire cross section is AWG 8 or 10 mm<sup>2</sup>.



**Your special advantages:**

**Back-to-back**

Our plug-in panel feed-through is particularly impressive with automatic locking and the ability to couple two plug-in mating partners.



Our flexible, plug-in supply connections reduce installation and service costs in the signal range up to 41 A. They thus address the much increased demands in the field of signal processing devices, such as photovoltaic inverters.



## Flexible power distribution to multiple devices

### OMNIMATE® Power connectors with cross-connection for devices

#### P

Power electronic devices should be easy and economical to install. It is often needed to connect several devices to the power supply. This is the case, for example, with energy recovery using DC-Link in the intermediate circuit for drives, where several drives are connected.

OMNIMATE® Power BVDF bus connectors have two connections per pole and a time-saving 6 mm<sup>2</sup> PUSH IN connection. This innovative feature allows easy connection of multiple devices during installation. The connector is available in different versions: laterally closed, with flange, or screw/locking flange. Each of them are available in two to eight pole versions

#### Your special advantages:

- Safe transmission of bus currents due to integrated cross-connection
- Time-saving connection of solid conductors and conductors with wire end ferrules due to PUSH IN connection
- One pole width less compared to conventional solutions due to self-locking centre flange



**Simple device integration**

BVDF bus connectors are plug-in compatible with pin headers of the SV series. This allows a flexible selection of connectors for the use of devices: BVF standard connectors for single devices, BVDF connectors for multiple connected devices.



**Quick and easy installation**

Components with PUSH IN technology reduce the connection time by up to 50%. The conductor is simply inserted into the clamping point up to the stop and a safe and gas-tight connection is established - without any tools.







**High safety level**

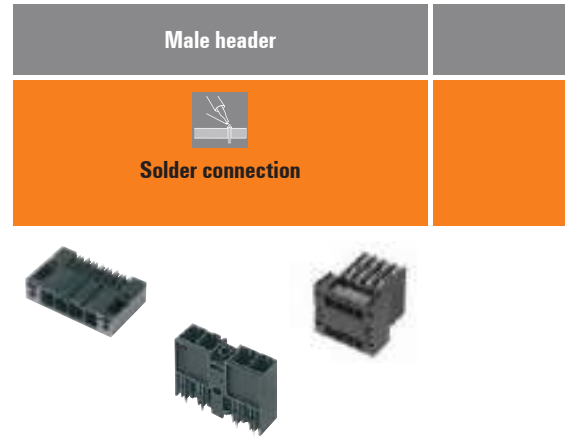
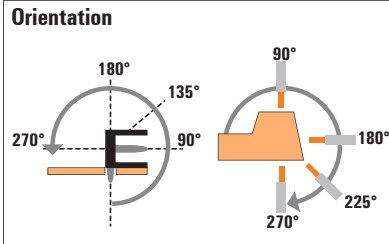
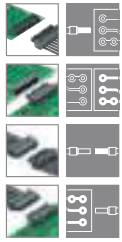
The self-locking central flange and the lateral locking flange of the BVDF connectors have an additional screw fastening. It ensures reliable grip – even with tight bending radii of the connected conductors.





<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



**BV/SV 7.62 series**



Type	SV- SMT	SV	SVD
Orientation	90° /180°/270°	90° /180°/270°	270°
Flange options	G/F/SF/MF/MSF	G/F/SF/MF/MSF	G/F
Product code numbers	IEC: 1.000 V/41 A UL: 300 V/40.5 A	IEC: 1.000 V/41 A UL: 300 V/40.5 A	IEC: 1.000 V/47 A UL: 300 V/30 A

Female plug	Screw Clamping yoke	BVZ 180°			SV- SMT	SV	SVD
		Flange options	IEC	UL			
		(G)/F/SF	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup>	UL: 600 V/40.5 A/AWG 24 - 8			
		FC/SFC	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup>	UL: 600 V/40.5 A/AWG 24 - 8			
		SH...	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup>	UL: 600 V/40.5 A/AWG 24 - 8			
		SH... C	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup>	UL: 600 V/40.5 A/AWG 24 - 8			
Female plug	Spring PUSH IN	BVF 180°			SV- SMT	SV	SVD
		Flange options	IEC	UL			
		(G)/F/SF/MF/MSF	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup>	UL: 600 V/39 A/AWG 24 - 8			
		(G)/F/SF/MF/MSF	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup>	UL: 600 V/39 A/AWG 24 - 8			
		(G)/SF/MF/MSF	IEC: 600 V/46 A/0,5 - 10 mm <sup>2</sup>	UL: 600 V/35 A/AWG 24 - AWG 8			
Female header	Solder connection	BVL 90°			SV- SMT	SV	SVD
		Flange options	IEC	UL			
		(G)/FI/SFI	IEC: 1.000 V/41 A	UL: 300 V/35 A			
		(G)/FI/SFI	IEC: 1.000 V/41 A	UL: 300 V/35 A			
		(G)/FI/SFI	IEC: 1.000 V/41 A	UL: 300 V/35 A			

**Female plug and header:**

(G) = Closed (without flange)

F = Flange with clasp

SF = Flange with clasp and additional screw

SFC = Flange with clasp and additional screw

FI = Inverted flange with clasp

SFI = Inverted flange with clasp and additional screw

FC = Flange with clasp


SH... = Shielded flange with additional nut

SH... C = Shielded flange with additional screw

MF = Centre flange for clasp

MSF = Centre flange for clasp with additional nut

**Male plug**



**Spring  
PUSH IN**



SVF	SVF	SVF	SVFL
180°	180°	180°	180°
G/F/SF	G/FI/SFI	MF/MSF/SFMF/SFBMF	G/F/MF
IEC: 1.000 V/41 A/ 0.5 - 10 mm <sup>2</sup> UL: 600 V/36 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm <sup>2</sup> UL: 600 V/36 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm <sup>2</sup> UL: 600 V/36 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm <sup>2</sup> UL: 600 V/36 A/ AWG 24 - 10
●			●
●			●
●		●	●
●		●	●
●		●	●
	●		
	●		
	●		

**Male header and plug:**

- G = Closed (without flange)
- F = Flange with clasp
- SF = Flange with clasp and additional screw
- FI = Inverted flange with clasp

- SFI = Inverted flange with clasp and additional screw
- FC = Flange with clasp
- SFC = Flange with clasp and additional screw
- SH... = Shielded flange with additional nut

- MF = Centre flange for clasp
- MSF = Centre flange for clasp with additional nut

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV-SMT 7.62HP../90**



Male header with 90° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in accordance with UL61800-5-1/UL840. The pin arrangement ensures more than 3 mm of finger safety in accordance with IEC 61800-5-1.

Maximum operational reliability thanks to derating up to 125°C, a 100% failsafe pin arrangement, unique coding diversity and additional fastening.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade			mm
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 300</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 10</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

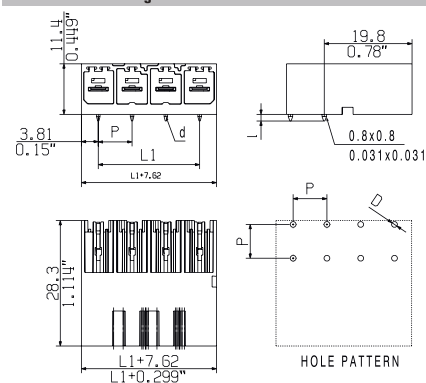
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV-SMT 7.62HP../90G Box**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

**Ordering data**

<b>Solder pin length</b>	2.6 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	2499320000
3	15.24	0.600	78	2499500000
4	22.86	0.900	60	2499550000
5	30.48	1.200	48	2499560000



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV-SMT 7.62HP../90**



Male header with 90° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in accordance with UL61800-5-1/UL840. The pin arrangement ensures more than 3 mm of finger safety in accordance with IEC 61800-5-1.

Maximum operational reliability thanks to derating up to 125°C, a 100% failsafe pin arrangement, unique coding diversity and additional fastening.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 300</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 40,5 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

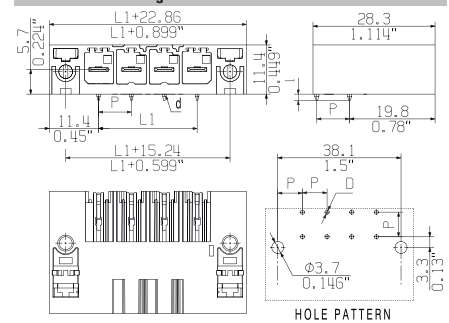
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV-SMT 7.62HP../90SF Tape**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

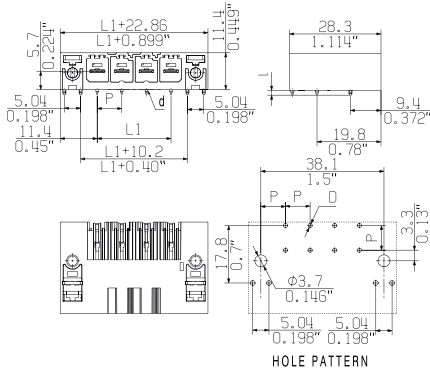
**Ordering data**

<b>Solder pin length</b>	<b>2.6 mm</b>			
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	110	2545810000
3	15.24	0.600	110	2545950000
4	22.86	0.900	95	2545960000
5	15.24	0.600	95	2545970000

SV-SMT 7.62HP/./90LF Box



Dimensioned drawing



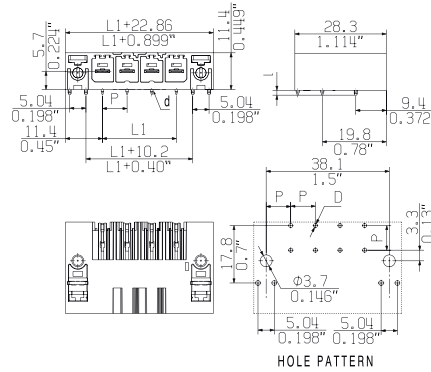
Ordering data

Solder pin length		2.6 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	2499640000
3	15.24	0.600	50	2499650000
4	22.86	0.900	50	2499660000
5	30.48	1.200	30	2499670000

SV-SMT 7.62HP/./90LSF Box



Dimensioned drawing

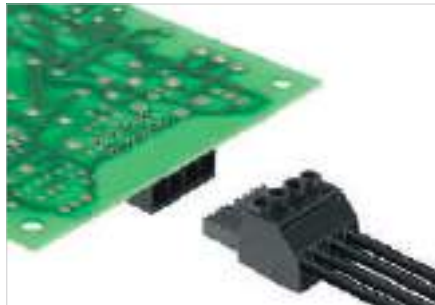


Ordering data

Solder pin length		2.6 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	60	2499680000
3	15.24	0.600	48	2499690000
4	22.86	0.900	36	2499700000
5	30.48	1.200	30	2499710000

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV-SMT 7.62HP../270**



Male header with 270° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in accordance with UL61800-5-1/UL840. The pin arrangement ensures finger safety of >3 mm in accordance with IEC 61800-5-1. Maximum operational reliability thanks to derating up to 125°C, a 100% failsafe pin arrangement, unique coding diversity and additional fastening.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 300</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 10</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

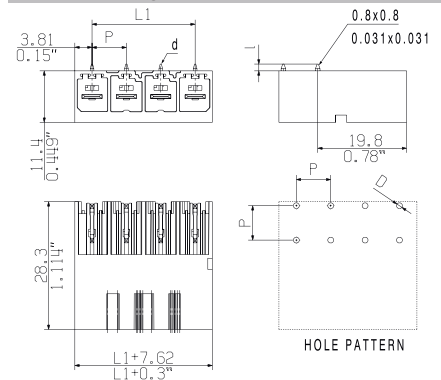
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV-SMT 7.62HP../270G Box**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

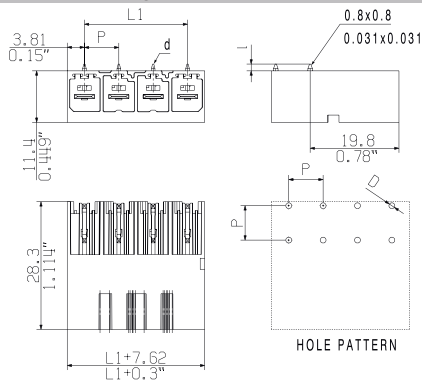
**Ordering data**

<b>Solder pin length</b>	2.6 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	2499330000
3	15.24	0.600	78	2499340000
4	22.86	0.900	60	2499350000
5	30.48	1.200	48	2499360000

SV-SMT 7.62HP/./270G Tape



Dimensioned drawing



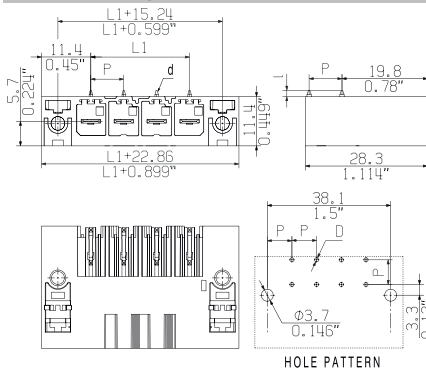
Ordering data

Solder pin length		2.6 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	2546140000
3	15.24	0.600	2546150000
4	22.86	0.900	2546160000
5	30.48	1.200	2546170000

SV-SMT 7.62HP/./270F Box



Dimensioned drawing



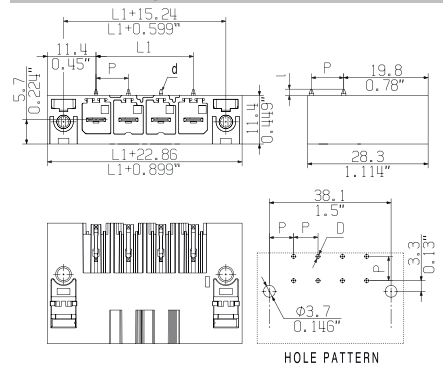
Ordering data

Solder pin length		2.6 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	2499540000
3	15.24	0.600	2499910000
4	22.86	0.900	2499920000
5	30.48	1.200	2499930000

SV-SMT 7.62HP/./270SF Box



Dimensioned drawing



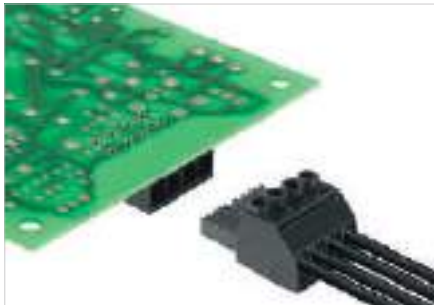
Ordering data

Solder pin length		2.6 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	2499940000
3	15.24	0.600	2499950000
4	22.86	0.900	2499960000
5	38.10	1.800	2499970000



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV-SMT 7.62HP../270**



Male header with 270° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in accordance with UL61800-5-1/UL840. The pin arrangement ensures finger safety of >3 mm in accordance with IEC 61800-5-1. Maximum operational reliability thanks to derating up to 125°C, a 100% failsafe pin arrangement, unique coding diversity and additional fastening.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

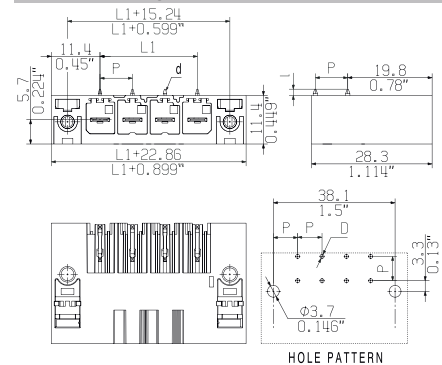
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV-SMT 7.62HP../270SF Tape**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 300</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000



**Ordering data**

<b>Solder pin length</b>	<b>2.6 mm</b>			
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	110	2546020000
3	15.24	0.600	110	2546030000
4	22.86	0.900	95	2546040000
5	30.48	1.200	95	2546050000



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../90**



Male header with 90° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening.

Variants: flange, screw flange and middle flange fastening.

**Product data**

IEC: 1000 V / 57 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

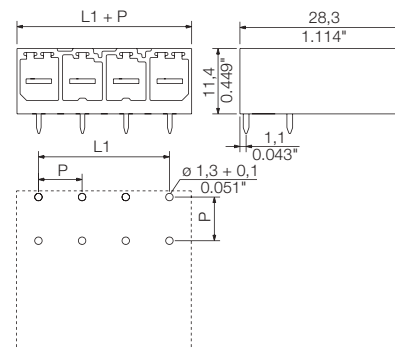
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Diameter of solder eyelet D = 1.4+0.1 mm starting with 8-pole
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP../90G**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

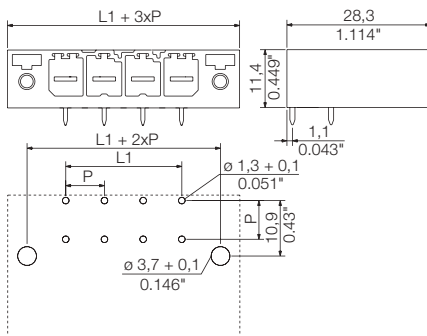
**Ordering data**

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1 (inch)	Qty.	Order No.	
2	7.62	120	1930270000	
3	15.24	78	1930280000	
4	22.86	60	1930290000	
5	30.48	48	1930300000	
6	38.10	36	1930310000	
7	45.72	30	1930320000	
8	53.34	30	1930330000	
9	60.96	24	1930340000	
10	68.58	24	1930350000	
11	76.20	18	1930360000	
12	83.82	18	1930370000	

SV 7.62HP../90F



Dimensioned drawing



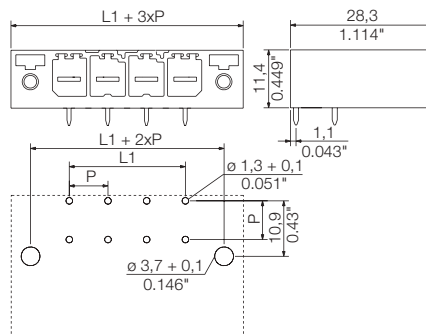
Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	60 1930380000
3	15.24	0.600	48 1930390000
4	22.86	0.900	36 1930400000
5	30.48	1.200	30 1930410000
6	38.10	1.500	30 1930420000
7	45.72	1.800	24 1930430000
8	53.34	2.100	24 1930440000
9	60.96	2.400	18 1930450000
10	68.58	2.700	18 1930460000
11	76.20	3.000	18 1930470000
12	83.82	3.300	12 1930480000

SV 7.62HP../90SF



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	60 1930490000
3	15.24	0.600	48 1930500000
4	22.86	0.900	36 1930510000
5	30.48	1.200	30 1930520000
6	38.10	1.500	30 1930530000
7	45.72	1.800	24 1930540000
8	53.34	2.100	24 1930550000
9	60.96	2.400	18 1930560000
10	68.58	2.700	18 1930570000
11	76.20	3.000	18 1930580000
12	83.82	3.300	12 1930590000

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP/./90MF**



Male header with 90° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening.

Variants: flange, screw flange and middle flange fastening.

**Product data**

IEC: 1000 V / 57 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

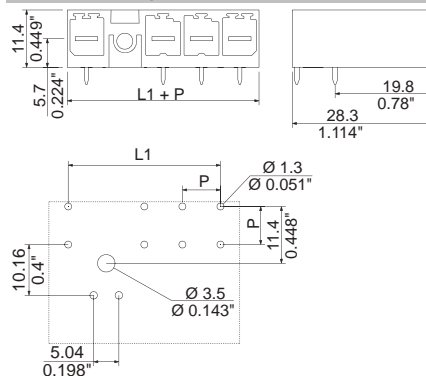
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP/./90MF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

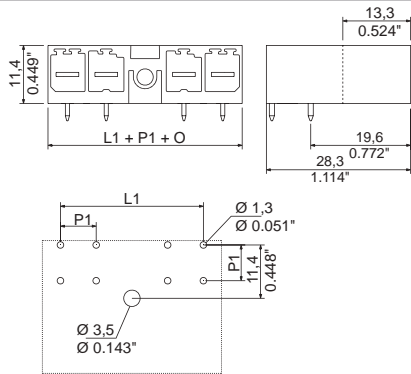
**Ordering data**

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1048390000
3	22.86	0.900	60	1048500000
4	30.48	1.200	48	1464270000
5	38.10	1.500	36	1464280000
6	45.72	1.800	30	1543090000

SV 7.62HP../90MF3



Dimensioned drawing



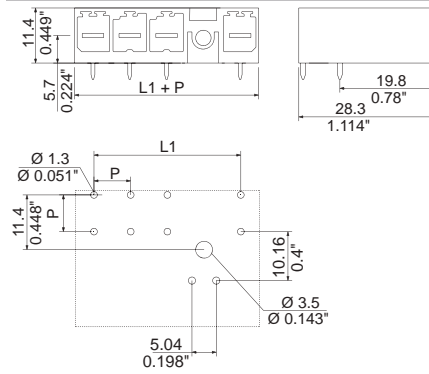
Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
3	22.86	0.900	60 1048490000
4	30.48	1.200	48 1048570000
5	38.10	1.500	36 1048690000
6	45.72	1.800	30 1543120000

SV 7.62HP../90MF4



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	48 1464290000
5	38.10	1.500	36 1048690000
6	45.72	1.800	30 1048760000

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../180**



Male header with 180° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening and integrated positioning aid.

Variants: flange, screw flange and middle flange fastening.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material	PA GF		
UL 94 flammability rating	V-0		
Contact base material	Copper alloy		
Material of contact surface	tinned		
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 57 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

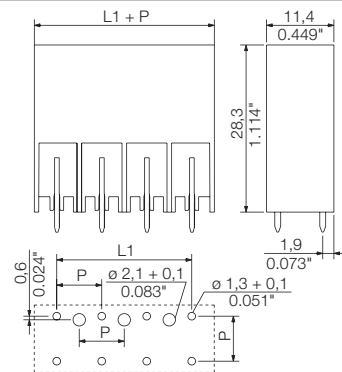
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Diameter of solder eyelet D = 1.4+0.1 mm starting with 8-pole
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP../180G**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
<b>Protection against twisting</b>	
VDS180 SV7.62	1853940000

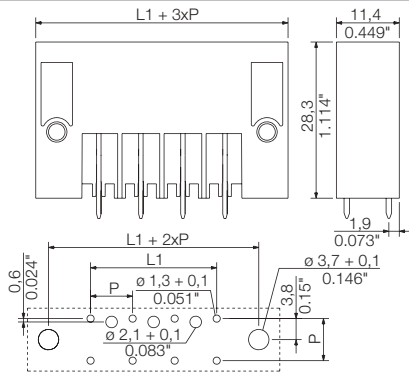
**Ordering data**

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	1930600000
3	15.24	0.600	78	1930610000
4	22.86	0.900	60	1930620000
5	30.48	1.200	48	1930630000
6	38.10	1.500	36	1930640000
7	45.72	1.800	30	1930650000
8	53.34	2.100	30	1930660000
9	60.96	2.400	24	1930670000
10	68.58	2.700	24	1930680000
11	76.20	3.000	18	1930690000
12	83.82	3.300	18	1930700000

SV 7.62HP../180F



Dimensioned drawing



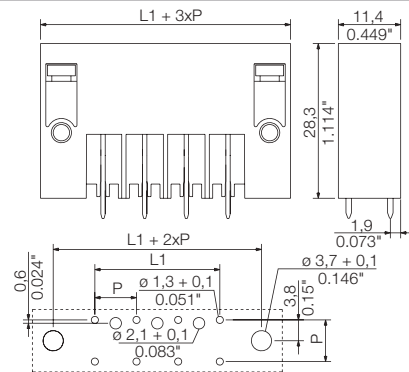
Ordering data

Solder pin length		3.5 mm			
Colour		black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	60	1930710000	
3	15.24	0.600	48	1930720000	
4	22.86	0.900	36	1930730000	
5	30.48	1.200	30	1930740000	
6	38.10	1.500	30	1930750000	
7	45.72	1.800	24	1930760000	
8	53.34	2.100	24	1930770000	
9	60.96	2.400	18	1930780000	
10	68.58	2.700	18	1930790000	
11	76.20	3.000	18	1930800000	
12	83.82	3.300	12	1930810000	

SV 7.62HP../180SF



Dimensioned drawing



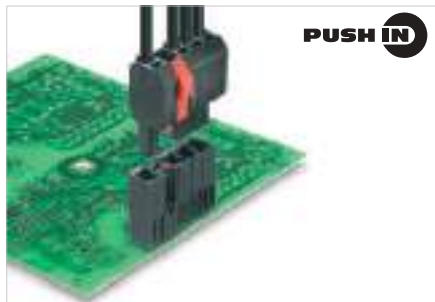
Ordering data

Solder pin length		3.5 mm			
Colour		black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	60	1930820000	
3	15.24	0.600	48	1930830000	
4	22.86	0.900	36	1930840000	
5	30.48	1.200	30	1930850000	
6	38.10	1.500	30	1930860000	
7	45.72	1.800	24	1930870000	
8	53.34	2.100	24	1930880000	
9	60.96	2.400	18	1930890000	
10	68.58	2.700	18	1930900000	
11	76.20	3.000	18	1930910000	
12	83.82	3.300	12	1930920000	



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../180MF**



**PUSH IN**

Male header with 180° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening and integrated positioning aid.

Variants: flange, screw flange and middle flange fastening.

**Product data**

IEC: 1000 V / 57 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

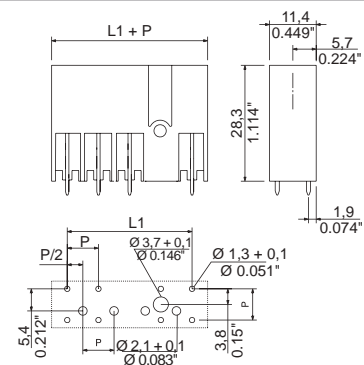
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP../180MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material	PA GF		
UL 94 flammability rating	V-0		
Contact base material	Copper alloy		
Material of contact surface	tinned		
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Protection against twisting</b>		
	VDS180 SV7.62	1853940000

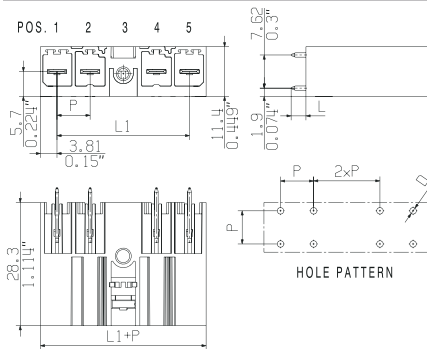
**Ordering data**

Solder pin length		3.5 mm	
Colour		black	
<b>Pitch 7.62 mm</b>			
Pol.	L1	(inch)	Qty. Order No.
2	15.24	0.600	78 <b>1048350000</b>
3	22.86	0.900	60 <b>1048410000</b>
4	30.48	1.200	48 <b>1464310000</b>
5	38.10	1.500	36 <b>1464320000</b>
6	45.72	1.800	30 <b>1543190000</b>

SV 7.62HP../180MF3



Dimensioned drawing



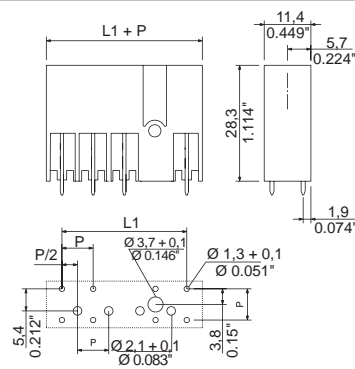
Ordering data

Solder pin length		3.5 mm			
Colour		black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	60	1048420000	
4	30.48	1.200	48	1048530000	
5	38.10	1.500	36	1048590000	
6	45.72	1.800	30	1543210000	

SV 7.62HP../180MF4



Dimensioned drawing

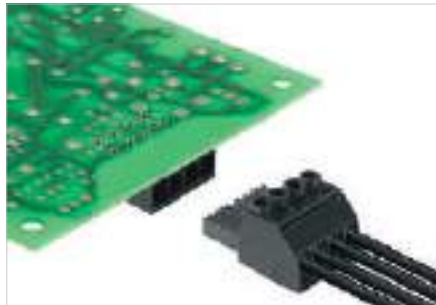


Ordering data

Solder pin length		3.5 mm			
Colour		black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	48	1464330000	
5	38.10	1.500	36	1048600000	
6	45.72	1.800	30	1048720000	

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP/./270**



Male header with 270° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening.

Variants: flange, screw flange and middle flange fastening.

**Product data**

IEC: 1000 V / 57 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

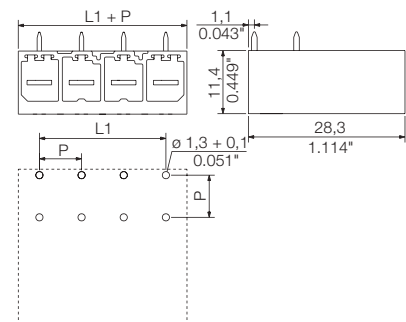
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Diameter of solder eyelet D = 1.4+0.1 mm starting with 8-pole
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SV 7.62HP/./270G**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

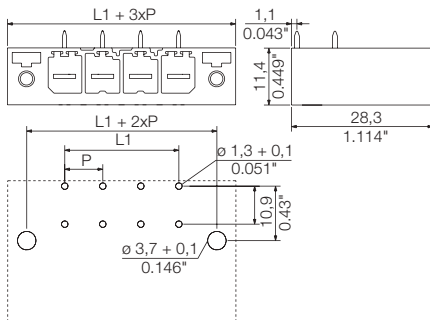
**Ordering data**

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	1931260000
3	15.24	0.600	78	1931270000
4	22.86	0.900	60	1931280000
5	30.48	1.200	48	1931290000
6	38.10	1.500	36	1931300000
7	45.72	1.800	30	1931310000
8	53.34	2.100	30	1931320000
9	60.96	2.400	24	1931330000
10	68.58	2.700	24	1931340000
11	76.20	3.000	18	1931350000
12	83.82	3.300	18	1931360000

SV 7.62HP../270F



Dimensioned drawing



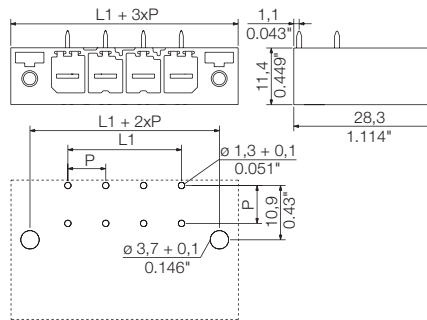
Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	60 1931370000
3	15.24	0.600	48 1931380000
4	22.86	0.900	36 1931390000
5	30.48	1.200	30 1931400000
6	38.10	1.500	30 1931410000
7	45.72	1.800	24 1931420000
8	53.34	2.100	24 1931430000
9	60.96	2.400	18 1931440000
10	68.58	2.700	18 1931450000
11	76.20	3.000	18 1931460000
12	83.82	3.300	12 1931470000

SV 7.62HP../270SF



Dimensioned drawing



Ordering data

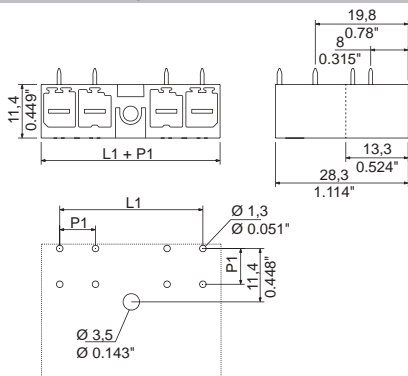
Solder pin length		3.5 mm	
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	60 1931480000
3	15.24	0.600	48 1931490000
4	22.86	0.900	36 1931500000
5	30.48	1.200	30 1931510000
6	38.10	1.500	30 1931520000
7	45.72	1.800	24 1931530000
8	53.34	2.100	24 1931540000
9	60.96	2.400	18 1931550000
10	68.58	2.700	18 1931570000
11	76.20	3.000	18 1931580000
12	83.82	3.300	12 1931590000



SV 7.62HP/./270MF3



Dimensioned drawing



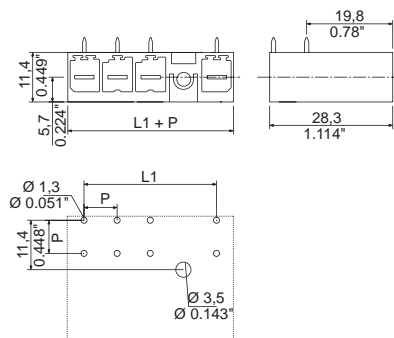
Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	60	1048460000
4	30.48	1.200	48	1048550000
5	38.10	1.500	36	1048640000
6	45.72	1.800	30	1543260000

SV 7.62HP/./270MF4



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	48	1464360000
5	38.10	1.500	36	1048650000
6	45.72	1.800	30	1048740000

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVD 7.62HP../270**



Double-row high-current, high-performance pin headers, with or without flange, for fast, tool-free locking. Optimised for "book-size modules" measuring 50 mm wide and above. With integrated mounting option for mounting to the housing wall. Exceptional reliability and operational safety thanks to 100% failsafe mating profile, unique coding and optional additional screw mounting in the flange.

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>47</b>	<b>42</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>30</b>	<b>30 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 300
Rated current	A		5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 47 A  
 UL: 300 V / 30 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

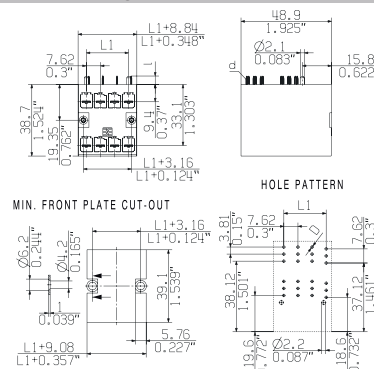
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SVD 7.62HP../270G**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

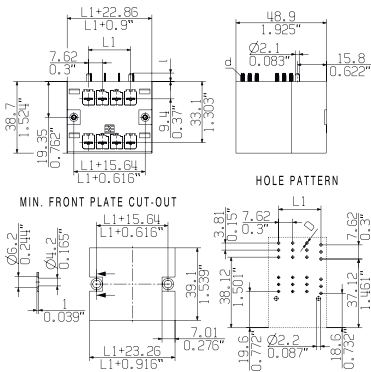
**Ordering data**

<b>Solder pin length</b>	<b>3.2 mm</b>			
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
4	7.62	0.300	60	1543290000
6	15.24	0.600	42	1543310000
8	22.86	0.900	30	1543320000
10	30.48	1.200	24	1543330000
12	38.10	1.500	21	1543340000

SVD 7.62HP/././270F



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	7.62	0.300	33	1523940000
6	15.24	0.600	24	1523950000
8	22.86	0.900	21	1523970000
10	30.48	1.200	18	1523980000
12	38.10	1.500	15	1523990000





**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180**



Male plug in 180° outlet direction and PUSH IN spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and a screw flange (SF).

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

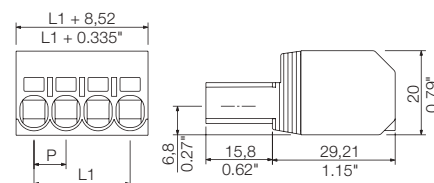
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SVF 7.62HP../180G**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600 600
Rated current	A	36	36 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

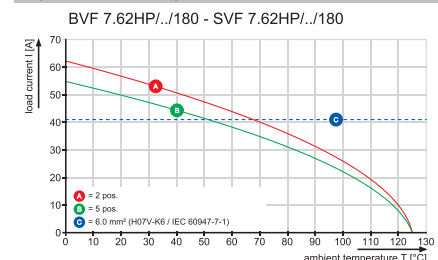
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8X4.5X125	2749370000
Pressing tool		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	1060830000
3	15.24	0.600	65	1060840000
4	22.86	0.900	45	1060850000
5	30.48	1.200	40	1060870000
6	38.10	1.500	30	1060880000

**Representative deratings curve**

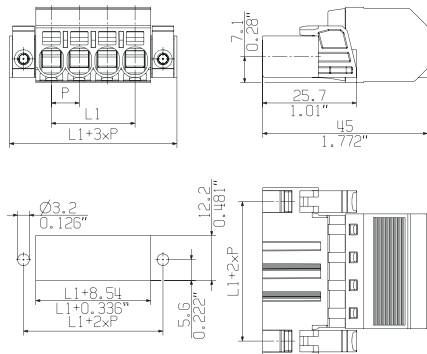


SVF 7.62HP../180F



Dimensioned drawing

POS. 1 2 3 4



Ordering data

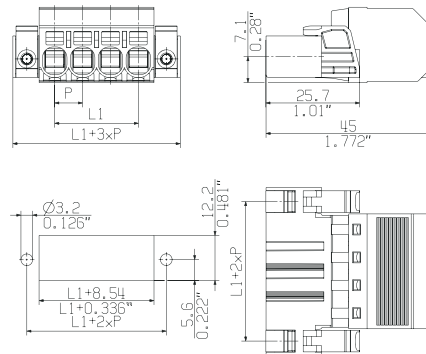
Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060900000	
3	15.24	0.600	40	1060910000	
4	22.86	0.900	30	1060920000	
5	30.48	1.200	25	1060930000	

SVF 7.62HP../180SF



Dimensioned drawing

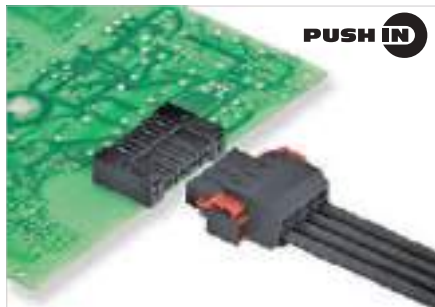
POS. 1 2 3 4



Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060950000	
3	15.24	0.600	40	1060970000	
4	22.86	0.900	30	1060980000	
5	30.48	1.200	25	1061000000	

### SVF 7.62HP../180 I



Male plug in 180° outlet direction and PUSH IN spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and a screw flange (SFI).

### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature	20°C	40°C	
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	36	36 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

### Product data

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

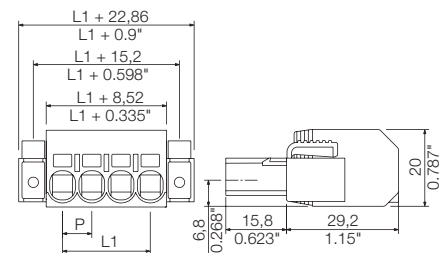
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### SVF 7.62HP../180FI



#### Dimensioned drawing



### Accessories

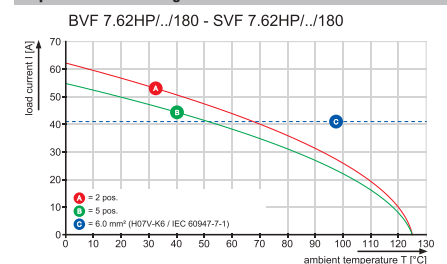
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.8X4.5X125	2749370000
Pressing tool		
	PZ 6/5	9011460000

### Ordering data

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	1124750000
3	15.24	0.600	40	1124760000
4	22.86	0.900	30	1124770000
5	30.48	1.200	25	1124780000

### Representative deratings curve





**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180MF**



**PUSH IN**

Male plug in 180° outlet direction with PUSH IN spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	36	36 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

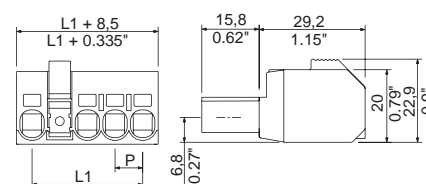
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SVF 7.62HP../180MF2**



**Dimensioned drawing**



**Accessories**

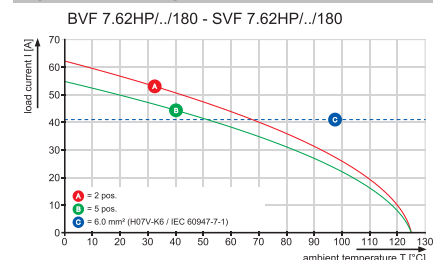
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	2749370000
<b>Pressing tool</b>		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1061020000
3	22.86	0.900	50	1061030000
4	30.48	1.200	40	1430010000
5	38.10	1.500	30	1430020000

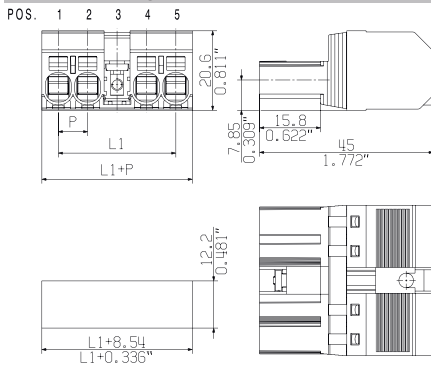
**Representative deratings curve**



SVF 7.62HP../180MF3



Dimensioned drawing



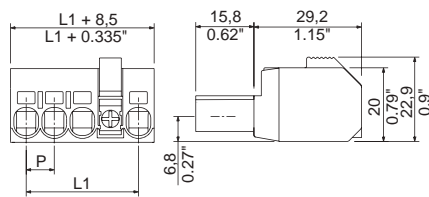
Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1061040000	
4	30.48	1.200	40	1061050000	
5	38.10	1.500	30	1061070000	

SVF 7.62HP../180MF4



Dimensioned drawing



Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430030000	
5	38.10	1.500	30	1061080000	
6	45.72	1.800	25	1061100000	

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180MSF**



**PUSH IN**

Male plug in 180° outlet direction with PUSH IN spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600 600
Rated current	A	36	36 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

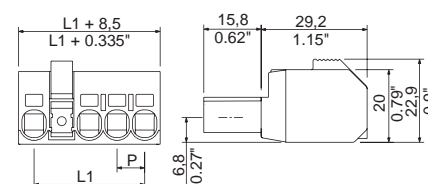
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SVF 7.62HP../180MSF2**



**Dimensioned drawing**



**Accessories**

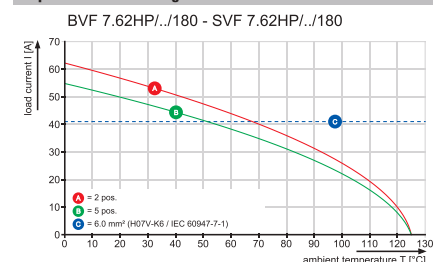
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.6X3.5X100	2749340000
	SDIS 0.6X3.5X100	2749810000
Pressing tool		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1061110000
3	22.86	0.900	50	1061120000
4	30.48	1.200	40	1430060000
5	38.10	1.500	30	1430070000

**Representative deratings curve**







**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180**



180° inverted male header featuring PUSH IN connection technology for field wiring in 6 mm<sup>2</sup> with a 7.62 pitch as a "three-flange variant" for enclosure feed-throughs. Suitable for enclosures with a max. wall thickness of 2 mm. Also a perfect finger-safe solution for reverse voltages. Meets the requirements of UL1059 600 V Class C and IEC 61800-5-1.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.5...10
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10
Flexible with ferrule	mm <sup>2</sup>	1.5...6
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.6 x 3.5

According to norm

Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature	20°C		40°C

For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2

<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800</b>	<b>1000</b>
Rated impulse voltage	kV	8	8	6

**UL / CUL (Use Group)**

<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39</b>	<b>5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>		

**CSA (Use Group)**

Rated voltage	V	600	600	600
Rated current	A	36	36	5
AWG conductor	AWG	24-10		

**General data**

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

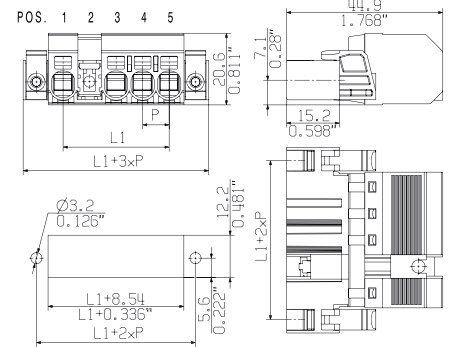
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SVF 7.62HP../180SFMF2**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
<b>Screwdriver</b>		
	SDS 0.8x4.5x125	2749370000
<b>Pressing tool</b>		
	PZ 6/5	9011460000
<b>Coupling set</b>		
	SVF/BVF 7.62HP COUPLE SET	1440850000

**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	15.24	0.600	40	1427220000
3	22.86	0.900	30	1427230000
4	30.48	1.200	25	1427250000

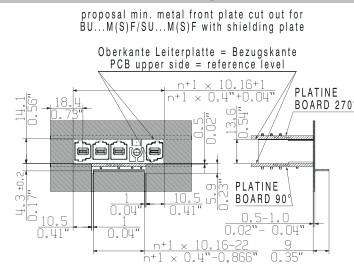
OMNIMATE® Power PCB connectors

P

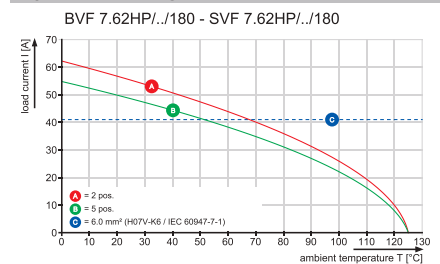
7.62

180°

**Representative dimensional drawing**



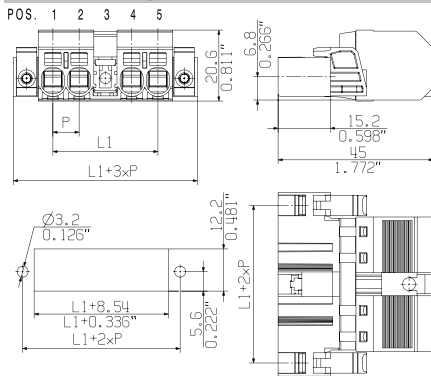
**Representative deratings curve**



SVF 7.62HP../180SFMF3



Dimensioned drawing



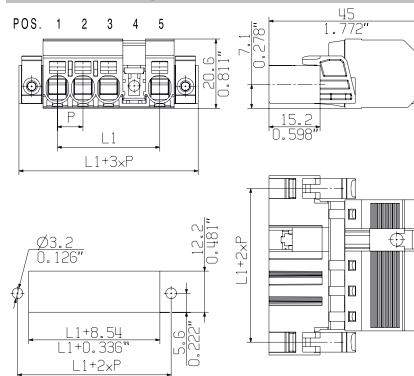
Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	30	1427240000	
4	30.48	1.200	25	1427260000	

SVF 7.62HP../180SFMF4



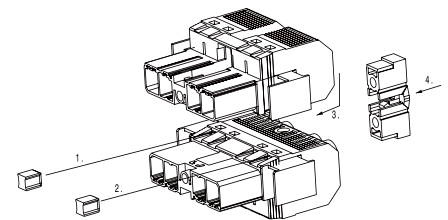
Dimensioned drawing



Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	25	1427270000	

SVF/BCF 7.62HP COUPLE SET



With the aid of the SVF/BVF 7.62HP COUPLE SET the two plug-in elements can be connected back-to-back to form a 2-row connector with a maximum of 2 x 4 poles.

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180**



180° inverted male header featuring PUSH IN connection technology for field wiring in 6 mm<sup>2</sup> with a 7.62 pitch as a "three-flange variant" for enclosure feed-throughs. Suitable for enclosures with a max. wall thickness of 16 mm. Also a perfect finger-safe solution for reverse voltages. Meets the requirements of UL1059 600 V Class C and IEC 61800-5-1.

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	36	36 5
AWG conductor	AWG	24-10	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

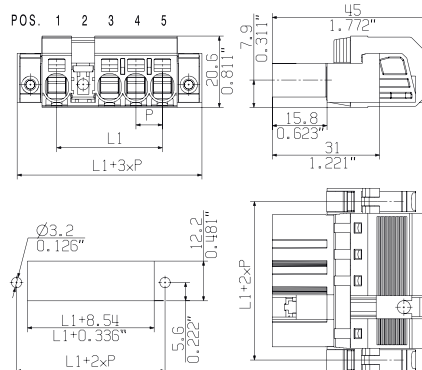
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SVF 7.62HP../180SFBMF2**



**Dimensioned drawing**



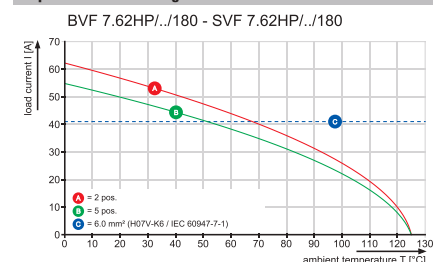
**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	15.24	0.600	40	1429920000
3	22.86	0.900	30	1429930000
4	30.48	1.200	25	1429950000

**Accessories**

<b>Note:</b> Refer to the Accessories chapter for additional accessories.		
<b>Coding</b>	<b>Order No.</b>	
BV/SV 7.62HP K0	<b>1937590000</b>	
<b>Screwdriver</b>		
SDS 0.8X4.5X125	<b>2749370000</b>	
<b>Pressing tool</b>		
PZ 6/5	<b>9011460000</b>	
<b>Coupling set</b>		
SVF/BVF 7.62HP COUPLE SET	<b>1440850000</b>	

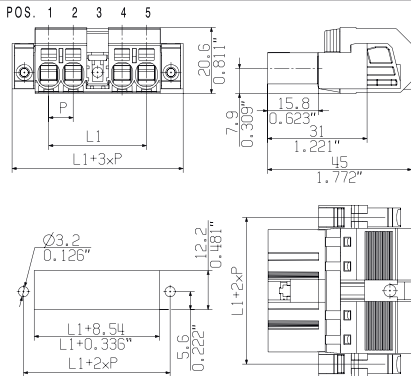
**Representative deratings curve**



SVF 7.62HP../180SFBMF3



Dimensioned drawing



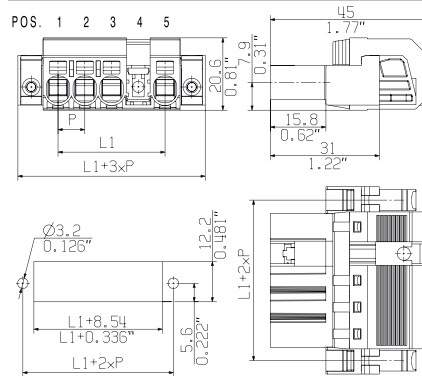
Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	30	1429940000	
4	30.48	1.200	25	1429960000	

SVF 7.62HP../180SFBMF4



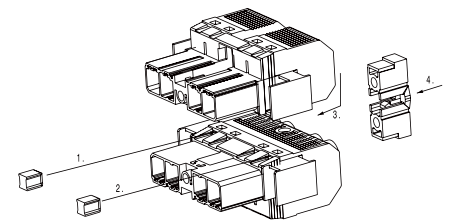
Dimensioned drawing



Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	25	1429970000	

SVF/BCF 7.62HP COUPLE SET



With the aid of the SVF/BVF 7.62HP COUPLE SET the two plug-in elements can be connected back-to-back to form a 2-row connector with a maximum of 2 x 4 poles.

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVFL 7.62HP../180**



Male plug with 180° outlet direction and adjustable actuator (PUSHER) featuring PUSH IN spring connection technology for TNC(S) networks. Also perfect as a touch-safe solution for reverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability due to: derating up to 125°C, a 100 % pin arrangement that prevents wrong connections or wrong wiring, and unique coding diversity.

Variants: middle flange and middle screw flange mountings.

**Product data**

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 36 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

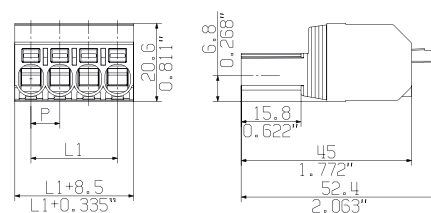
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SVFL 7.62HP../180G**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature	20°C		40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>36</b>	<b>36 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

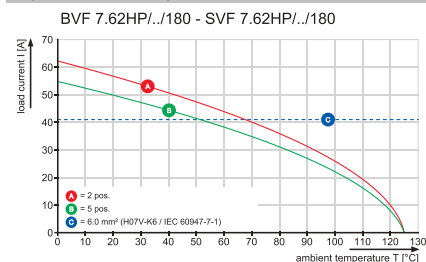
Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.8X4.5X125	2749370000
Pressing tool		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	36	1547550000

Additional pole combinations on request

**Representative deratings curve**

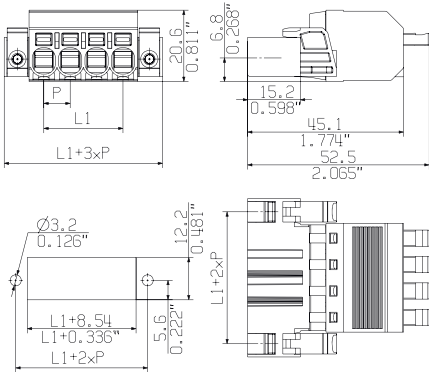


Additional pole combinations on request

SVFL 7.62HP/.. /180F



Dimensioned drawing



Ordering data

Solder pin length			
Colour		black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
4	22.86	0.900	42 1547570000

Additional pole combinations on request

**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVFL 7.62HP../180MF**



Male plug with 180° outlet direction and adjustable actuator (PUSHER) featuring PUSH IN spring connection technology for TNC(S) networks. Also perfect as a touch-safe solution for reverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability due to: derating up to 125°C, a 100 % pin arrangement that prevents wrong connections or wrong wiring, and unique coding diversity.

Variants: middle flange and middle screw flange mountings.

**Product data**

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 36 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

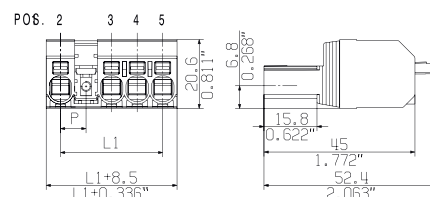
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SVFL 7.62HP../180MF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature	20°C		40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>36</b>	<b>36 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

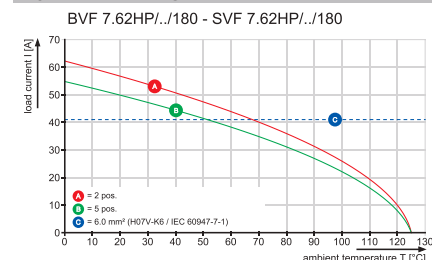
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	2749370000
<b>Pressing tool</b>		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	84	2630260000
3	22.86	0.900	60	2630420000
4	30.48	1.200	48	2630430000
5	38.10	1.500	42	2630440000

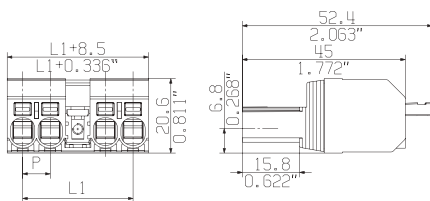
**Representative deratings curve**



SVFL 7.62HP../180MF3



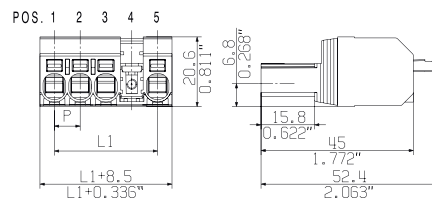
Dimensioned drawing



SVFL 7.62HP../180MF4



Dimensioned drawing



Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	60	2630450000	
4	30.48	1.200	48	1547580000	
5	38.10	1.500	42	2630460000	

Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	48	2630470000	
5	38.10	1.500	42	2630480000	



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVZ 7.62HP../180**



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and clip on screw flange (SFC)

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...10	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.2...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>51</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	V	8	1000 1000
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG	24-8	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
 UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

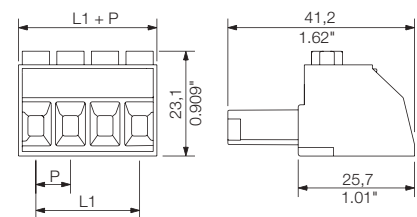
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVZ 7.62HP../180**



**Dimensioned drawing**



**Accessories**

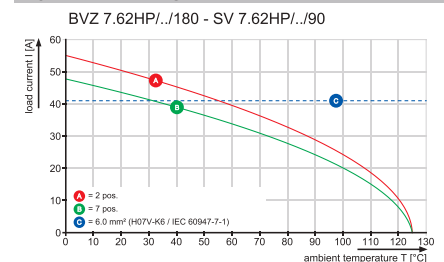
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Strain relief</b>		
	BV/SV 7.62HP/02 ZE GR	1937550000
	BV/SV 7.62HP/04 ZE GR	1937560000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	2749370000
	SDK PH1 X 80	2749410000

**Ordering data**

Solder pin length				
Colour	black			
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929930000
3	15.24	0.600	100	1929940000
4	22.86	0.900	100	1929950000
5	30.48	1.200	50	1929960000
6	38.10	1.500	50	1929970000
7	45.72	1.800	50	1929980000
8	53.34	2.100	50	1929990000
9	60.96	2.400	50	1930000000
10	68.58	2.700	50	1930020000
11	76.20	3.000	50	1930030000
12	83.82	3.300	50	1930040000

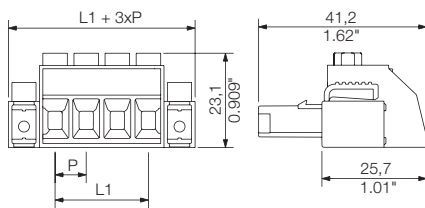
**Representative deratings curve**



BVZ 7.62HP../180F



Dimensioned drawing



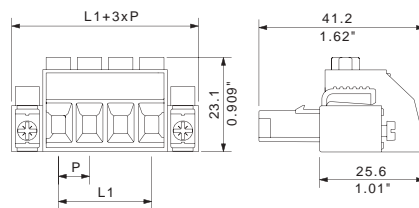
Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930050000	
3	15.24	0.600	100	1930060000	
4	22.86	0.900	100	1930070000	
5	30.48	1.200	50	1930080000	
6	38.10	1.500	50	1930090000	
7	45.72	1.800	50	1930100000	
8	53.34	2.100	50	1930110000	
9	60.96	2.400	50	1930120000	
10	68.58	2.700	50	1930130000	
11	76.20	3.000	50	1930140000	
12	83.82	3.300	50	1930150000	

BVZ 7.62HP../180SF



Dimensioned drawing



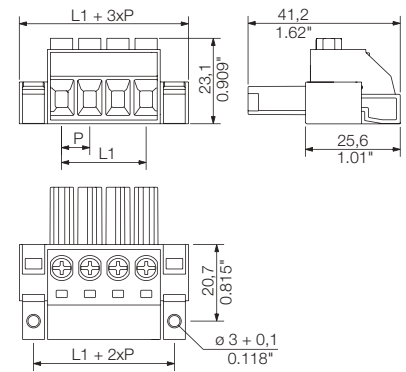
Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930160000	
3	15.24	0.600	100	1930170000	
4	22.86	0.900	100	1930180000	
5	30.48	1.200	50	1930190000	
6	38.10	1.500	50	1930200000	
7	45.72	1.800	50	1930210000	
8	53.34	2.100	50	1930220000	
9	60.96	2.400	50	1930230000	
10	68.58	2.700	50	1930240000	
11	76.20	3.000	50	1930250000	
12	83.82	3.300	50	1930260000	

BVZ 7.62HP../180SFC



Dimensioned drawing

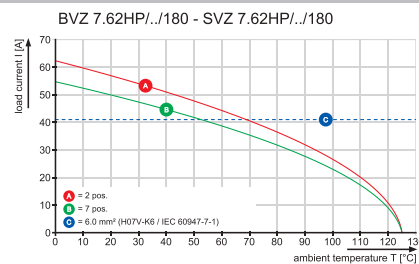
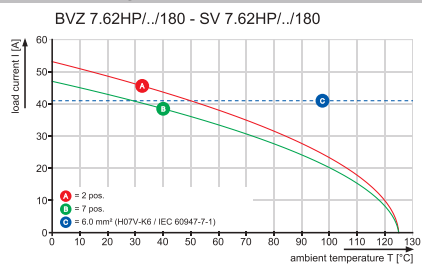


Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1929740000	
3	15.24	0.600	100	1929750000	
4	22.86	0.900	100	1929760000	
5	30.48	1.200	50	1929770000	
6	38.10	1.500	50	1929780000	
7	45.72	1.800	50	1929790000	

Also available with a clip-on flange (-180FC).

Additional deratings curves



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVZ 7.62HP../180RSH**



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...10	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.2...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>51</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	V	8	1000 1000
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
 UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

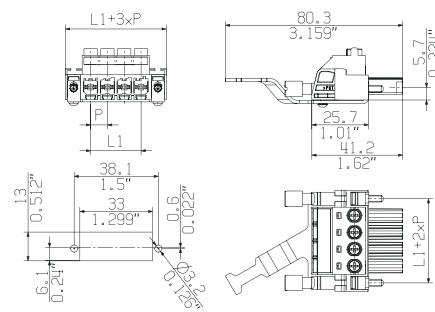
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVZ 7.62HP../180RSH150**



**Dimensioned drawing**



**Ordering data**

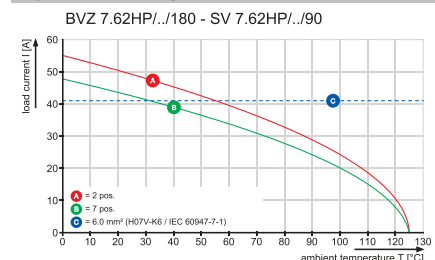
Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929850000
4	22.86	0.900	25	1929860000
5	30.48	1.200	25	1929870000
6	38.10	1.500	25	1929880000

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8X4.5X125	2749370000
	SDK PH1 X 80	2749410000

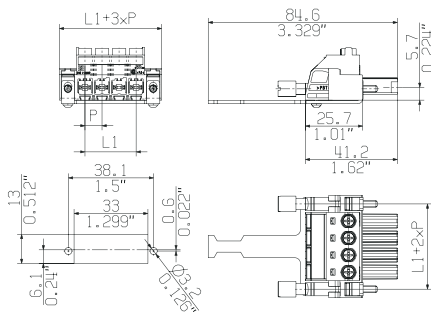
**Representative deratings curve**



**BVZ 7.62HP../180RSH180**



Dimensioned drawing



FRONT PLATE CUT-OUT

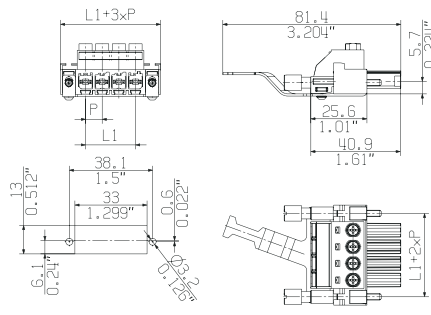
**Ordering data**

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933340000	
4	22.86	0.900	25	1933350000	
5	30.48	1.200	25	1933360000	
6	38.10	1.500	25	1933370000	

**BVZ 7.62HP../180RSH210**



Dimensioned drawing



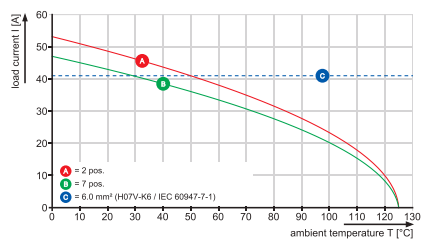
FRONT PLATE CUT-OUT

**Ordering data**

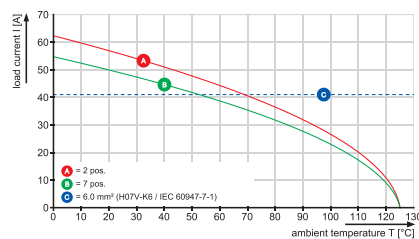
Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933430000	
4	22.86	0.900	25	1933440000	
5	30.48	1.200	25	1933450000	
6	38.10	1.500	25	1933460000	

**Additional deratings curves**

BVZ 7.62HP../180 - SV 7.62HP../180



BVZ 7.62HP../180 - SVZ 7.62HP../180



### BVZ 7.62HP../180SH C



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...10	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.2...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>51</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	V	8	1000 1000
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG	24-8	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

### Product data

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

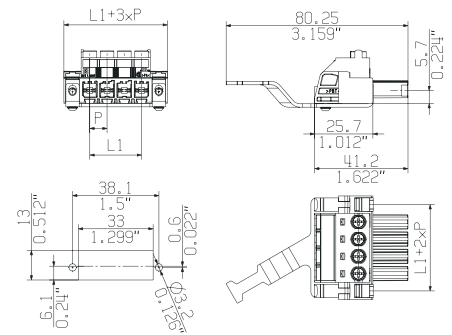
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### BVZ 7.62HP../180SH150C



### Dimensioned drawing



FRONT PLATE CUT-OUT

### Accessories

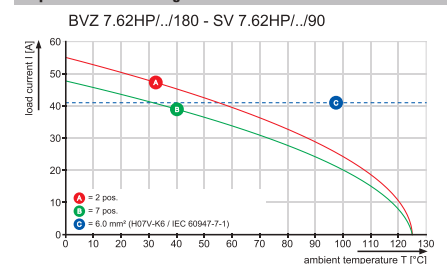
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	2749370000
	SDK PH1 X 80	2749410000

### Ordering data

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929890000
4	22.86	0.900	25	1929900000
5	30.48	1.200	25	1929910000
6	38.10	1.500	25	1929920000

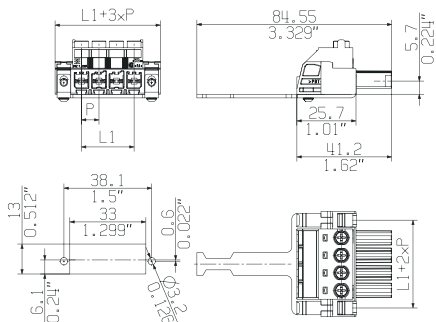
### Representative deratings curve



**BVZ 7.62HP../180SH180C**



Dimensioned drawing



FRONT PLATE CUT-OUT

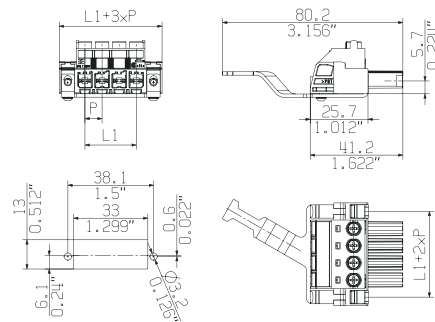
**Ordering data**

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933380000	
4	22.86	0.900	25	1933390000	
5	30.48	1.200	25	1933400000	
6	38.10	1.500	25	1933410000	

**BVZ 7.62HP../180SH210C**



Dimensioned drawing



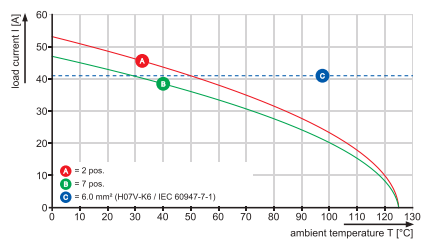
FRONT PLATE CUT-OUT

**Ordering data**

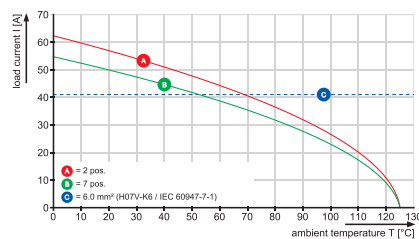
Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933470000	
4	22.86	0.900	25	1933480000	
5	30.48	1.200	25	1933490000	
6	38.10	1.500	25	1933500000	

**Additional deratings curves**

BVZ 7.62HP../180 - SV 7.62HP../180

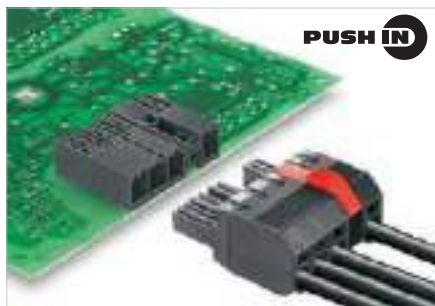


BVZ 7.62HP../180 - SVZ 7.62HP../180



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180**



Female plug in 180° outlet direction with PUSH IN spring connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and middle flange (MF).

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

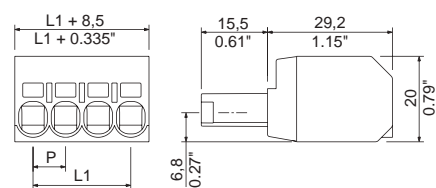
**Note:**

- Additional variants on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVF 7.62HP../180**



**Dimensioned drawing**



**Accessories**

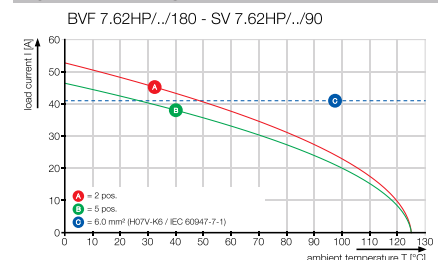
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8X4.5X125	2749370000
Pressing tool		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	1060390000
3	15.24	0.600	65	1060400000
4	22.86	0.900	45	1060410000
5	30.48	1.200	40	1060420000

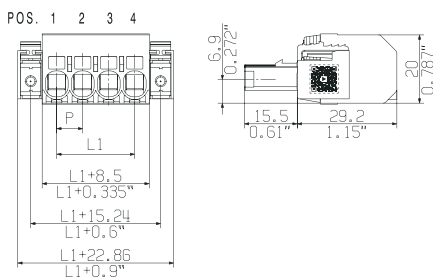
**Representative deratings curve**



BVF 7.62HP../180F



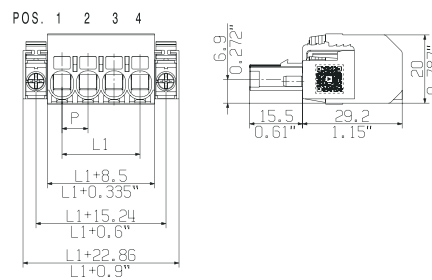
Dimensioned drawing



BVF 7.62HP../180SF



Dimensioned drawing



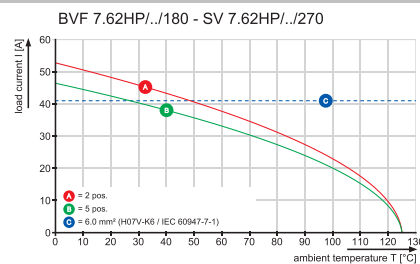
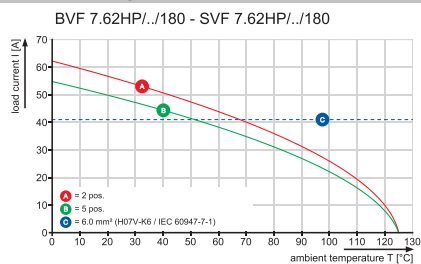
Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060440000	
3	15.24	0.600	40	1060450000	
4	22.86	0.900	30	1060470000	
5	30.48	1.200	25	1060480000	
6	38.10	1.500	25	1060490000	

Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060500000	
3	15.24	0.600	40	1060510000	
4	22.86	0.900	30	1060520000	
5	30.48	1.200	25	1060530000	
6	38.10	1.500	25	1060540000	

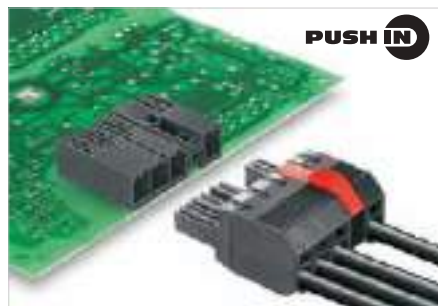
Additional deratings curves





**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180MF**



**PUSH IN**

Female plug in 180° outlet direction with PUSH IN spring connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange available in positions 2, 3 and 4.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

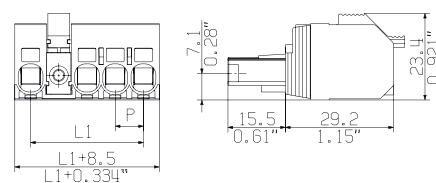
**Note:**

- Additional variants on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVF 7.62HP../180MF2**



**Dimensioned drawing**



7.62

180°

6 mm<sup>2</sup>

**Accessories**

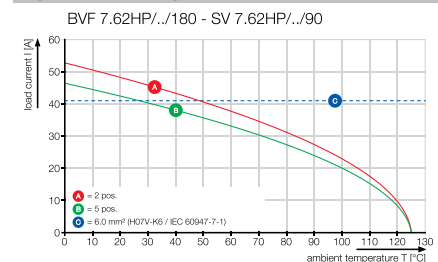
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8X4.5X125	2749370000
Pressing tool		
	PZ 6/5	9011460000
Coupling set		
	SVF/BVF 7.62HP COUPLE SET	1440850000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1060550000
3	22.86	0.900	50	1060570000
4	30.48	1.200	40	1430120000
5	38.10	1.500	30	1430130000
6	45.72	1.800	25	2629920000

**Representative deratings curve**



BVF 7.62HP../180MF3



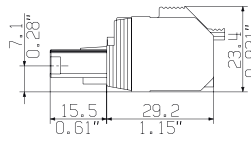
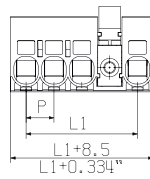
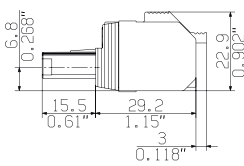
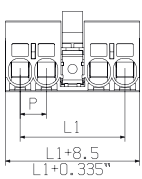
Dimensioned drawing

BVF 7.62HP../180MF4



Dimensioned drawing

POS. 1 2 3 4 5



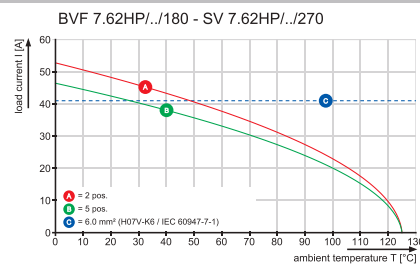
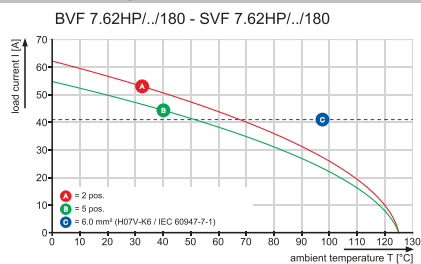
Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1060580000	
4	30.48	1.200	40	1060590000	
5	38.10	1.500	30	1060600000	
6	45.72	1.800	25	2630270000	

Ordering data

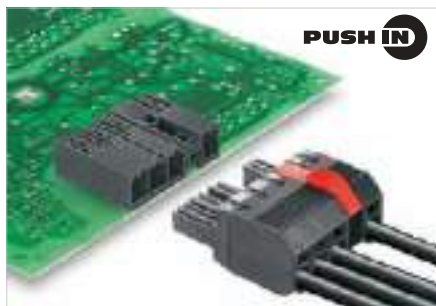
Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430140000	
5	38.10	1.500	30	1060610000	
6	45.72	1.800	25	1060620000	

Additional deratings curves



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180MSF**



Female plug in 180° outlet direction with PUSH IN spring connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange available in positions 2, 3 and 4.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

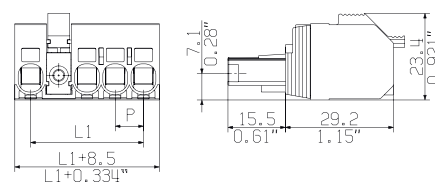
**Note:**

- Additional variants on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVF 7.62HP../180MSF2**



**Dimensioned drawing**



**Ordering data**

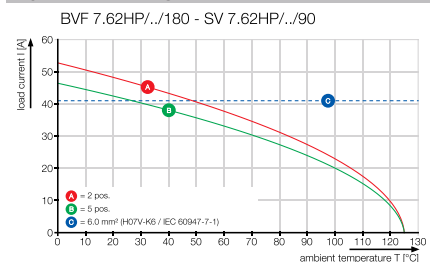
Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	15.24	0.600	65	1060630000	
3	22.86	0.900	50	1060640000	
4	30.48	1.200	40	1430090000	
5	38.10	1.500	30	1430100000	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	2749370000
<b>Pressing tool</b>		
	PZ 6/5	9011460000
<b>Coupling set</b>		
	SVF/BVF 7.62HP COUPLE SET	1440850000

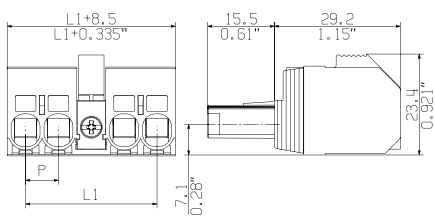
**Representative deratings curve**



BVF 7.62HP../180MSF3



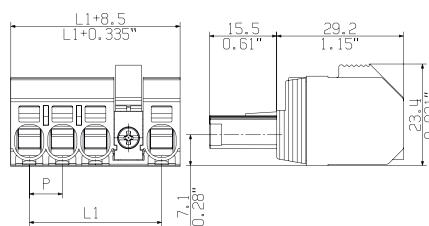
Dimensioned drawing



BVF 7.62HP../180MSF4



Dimensioned drawing



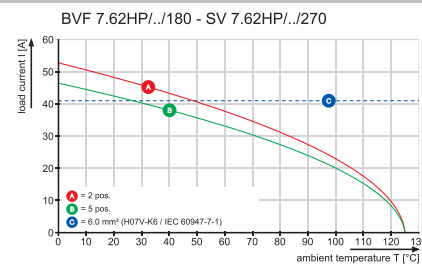
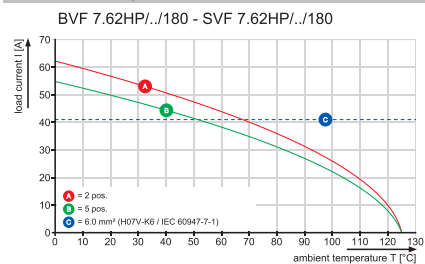
Ordering data

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1060650000	
4	30.48	1.200	40	1060670000	
5	38.10	1.500	30	1060680000	
6	45.72	1.800	25	2630320000	

Ordering data

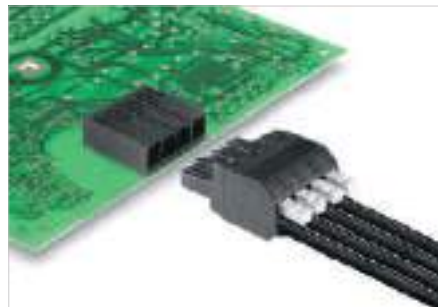
Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430110000	
5	38.10	1.500	30	1060690000	
6	45.72	1.800	25	1060700000	

Additional deratings curves



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP../180**



Female plug with 180° outlet direction, adjustable actuator (pusher) and PUSH IN spring connection technology for TNC(S) networks. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to derating up to 125°C, unique coding diversity and a pin arrangement that ensures failsafe insertion.

Variants: flange, screw flange, middle flange and middle screw flange mounting.

**Product data**

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

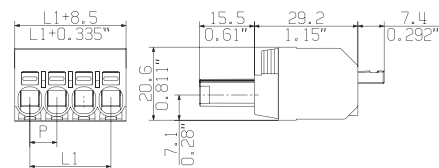
**Note:**

- Additional variants on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVFL 7.62HP../180**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

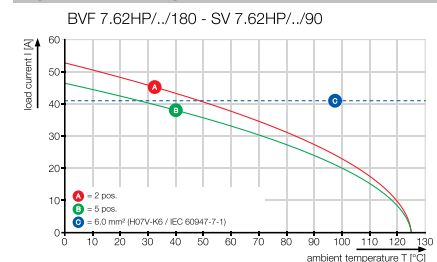
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8X4.5X125	2749370000
Pressing tool		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	2548870000
3	15.24	0.600	84	2548880000
4	22.86	0.900	60	1547520000
5	30.48	1.200	42	2548890000

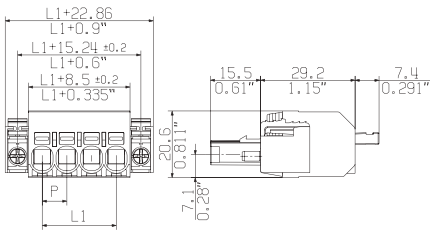
**Representative deratings curve**



**BVFL 7.62HP../180F**



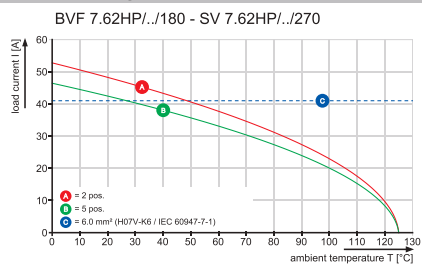
**Dimensioned drawing**



**Ordering data**

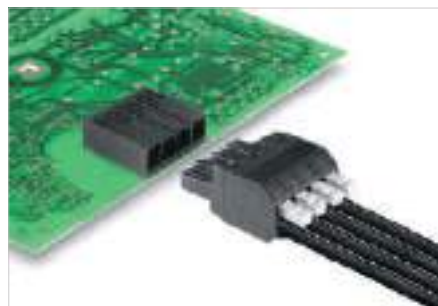
<b>Solder pin length</b>				
<b>Colour</b>				<b>black</b>
<b>Pitch</b>		<b>7.62 mm</b>		
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	7.62	0.300	66	2549280000
3	15.24	0.600	48	2549340000
4	22.86	0.900	42	1547530000
5	30.48	1.200	36	2549350000

**Additional deratings curves**



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP/./180MF**



Female plug with 180° outlet direction, adjustable actuator (pusher) and PUSH IN spring connection technology for TNC(S) networks. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to derating up to 125°C, unique coding diversity and a pin arrangement that ensures failsafe insertion.

Variants: flange, screw flange, middle flange and middle screw flange mounting.

**Product data**

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

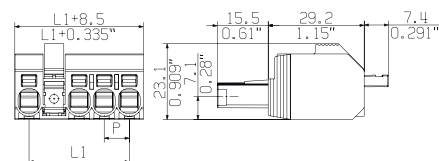
**Note:**

- Additional variants on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVFL 7.62HP/./180MF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

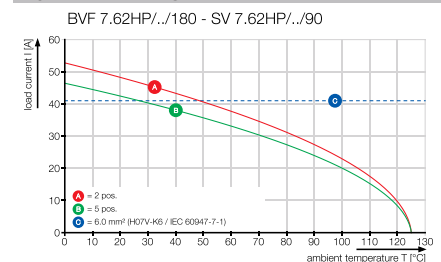
**Accessories**

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8X4.5X125	2749370000
Pressing tool		
	PZ 6/5	9011460000
Coupling set		
	SVF/BVF 7.62HP COUPLE SET	1440850000

**Ordering data**

Solder pin length					
Colour	black				
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	15.24	0.600	84	2549300000	
3	22.86	0.900	60	2549360000	
4	30.48	1.200	48	2630700000	
5	38.10	1.500	42	2630710000	
6	45.72	1.800	36	2630720000	

**Representative deratings curve**



**BVFL 7.62HP../180MF3**

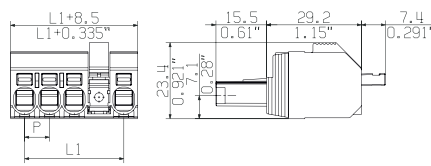
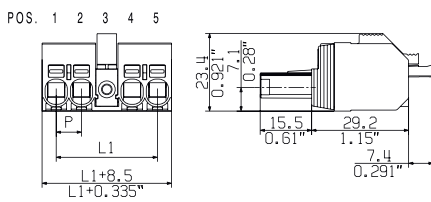


Dimensioned drawing

**BVFL 7.62HP../180MF4**



Dimensioned drawing



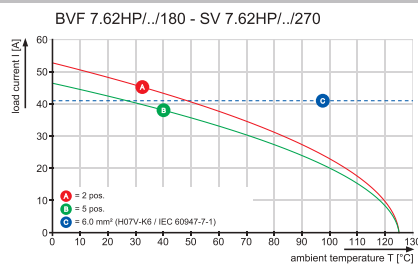
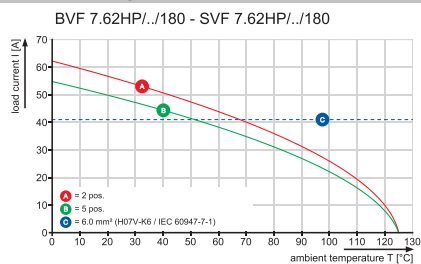
**Ordering data**

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	60	2549370000	
4	30.48	1.200	48	1547540000	
5	38.10	1.500	42	2549380000	
6	45.72	1.800	36	2630730000	

**Ordering data**

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	48	2630740000	
5	38.10	1.500	42	2549390000	

**Additional deratings curves**





### BVDF 7.62HP 180



Bus connector with two connections per pole with the time-saving 6mm<sup>2</sup> PUSH IN connection system.

- The extremely short cross-connection allows you to safely loop through bus currents.
- PUSH IN connection: Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...6	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>46</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
Rated impulse voltage	kV	6	6 4
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 35</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V		
Rated current	A		
AWG conductor	AWG	-	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

### Product data

IEC: 600 V / 46 A / 0.5 - 10 mm<sup>2</sup>  
UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

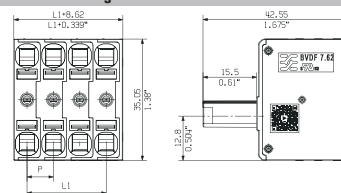
#### Note:

- Additional variants on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### BVDF 7.62HP/.../180



#### Dimensioned drawing



### Accessories

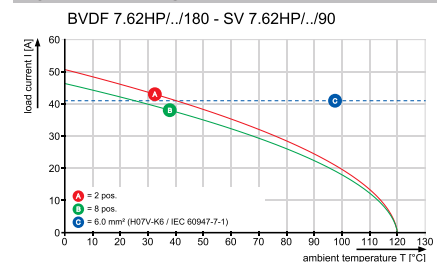
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>		
	SDS 0.6X3.5X100	2749340000
<b>Pressing tool</b>		
	PZ 6/5	9011460000

### Ordering data

Solder pin length				
Colour	black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	57	2719370000
3	15.24	0.600	39	2720430000
4	22.86	0.900	30	2720440000
5	30.48	1.200	24	2720450000
6	38.10	1.500	18	2720460000
7	45.62	1.800	15	2720470000
8	53.34	2.100	15	2720480000

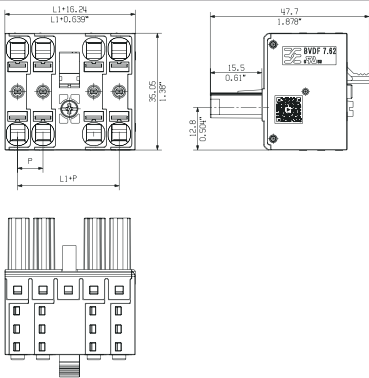
### Representative deratings curve



**BVDF 7.62HP/.../180SF**



**Dimensioned drawing**



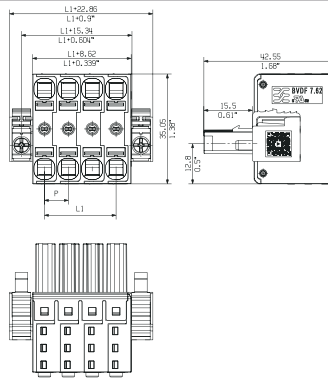
**Ordering data**

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	30	2719380000	
3	15.24	0.600	24	2720490000	
4	22.86	0.900	21	2720500000	
5	30.48	1.200	18	2720510000	
6	38.10	1.500	15	2720520000	
7	45.72	1.800	12	2720530000	
8	53.34	2.100	12	2720540000	

**BVDF 7.62HP/.../180MSF**



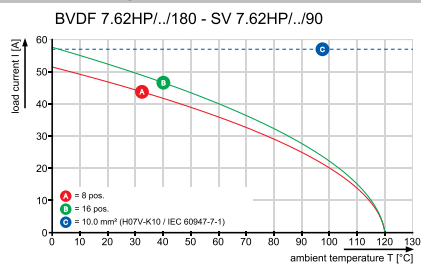
**Dimensioned drawing**



**Ordering data**

Solder pin length					
Colour					black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	39	2720560000	
3	15.24	0.600	30	2720570000	
4	22.86	0.900	24	2720580000	
5	30.48	1.200	18	2720590000	
6	38.10	1.500	15	2720600000	
7	45.72	1.800	15	2720610000	
8	53.34	2.100	12	2720620000	

**Additional deratings curves**



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVL 7.62HP../90**



Touch-safe female header with 90° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>56.8</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 56.8 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

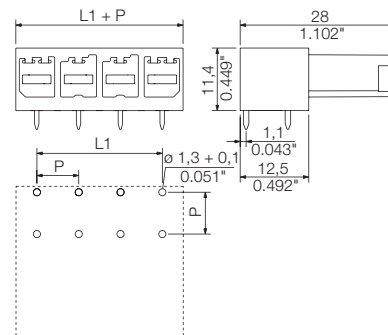
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVL 7.62HP../90**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

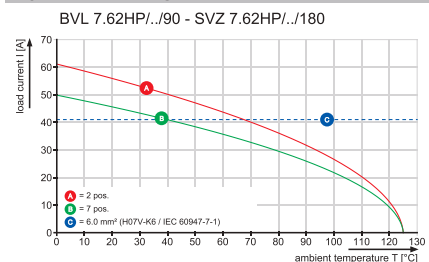
Coding	Order No.
BV/SV 7.62HP K0	1937590000



**Ordering data**

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928280000
3	15.24	0.600	100	1928290000
4	22.86	0.900	100	1928300000
5	30.48	1.200	50	1928310000
6	38.10	1.500	50	1928320000
7	45.72	1.800	50	1928330000

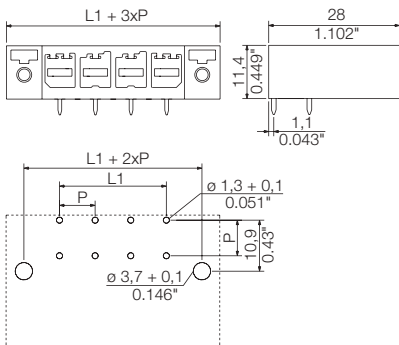
**Representative deratings curve**



BVL 7.62HP../90FI



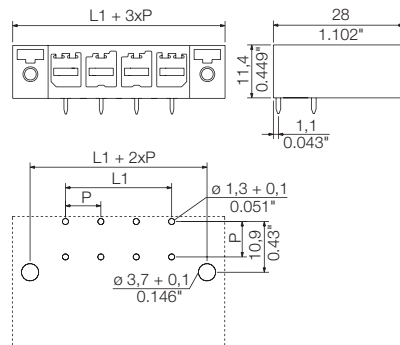
Dimensioned drawing



BVL 7.62HP../90SFI



Dimensioned drawing



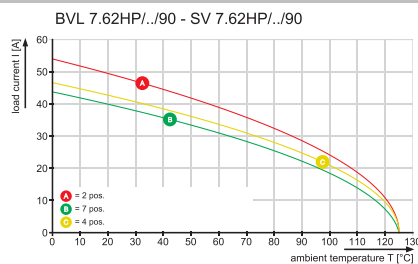
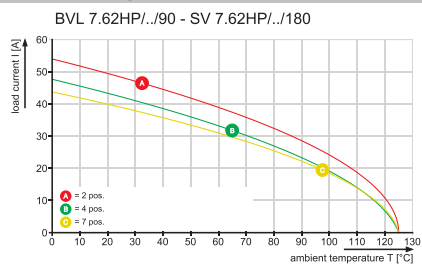
Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928390000
3	15.24	0.600	100	1928400000
4	22.86	0.900	100	1928410000
5	30.48	1.200	50	1928420000
6	38.10	1.500	50	1928430000
7	45.72	1.800	50	1928440000

Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928500000
3	15.24	0.600	100	1928510000
4	22.86	0.900	100	1928520000
5	30.48	1.200	50	1928530000
6	38.10	1.500	50	1928540000
7	45.72	1.800	50	1928550000

Additional deratings curves



**BVL 7.62HP../180**



Touch-safe female header with 180° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Characteristics: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fixing and integral positioning aid.

Variants: flange and screw flange fastening.

**Product data**

IEC: 1000 V / 56.8 A  
UL: 300 V / 42 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

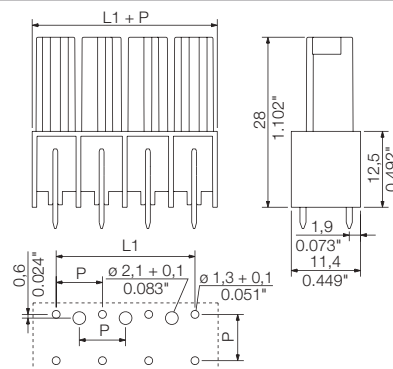
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVL 7.62HP../180**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>56.8</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>42</b>	<b>42 5</b>
<b>AWG conductor</b>	<b>AWG</b>	-	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG	-	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

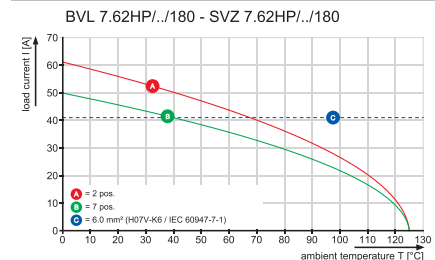
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
	VDS180 SV7.62	1853940000

**Ordering data**

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928610000
3	15.24	0.600	100	1928620000
4	22.86	0.900	100	1928630000
5	30.48	1.200	50	1928650000
6	38.10	1.500	50	1928660000
7	45.72	1.800	50	1928670000

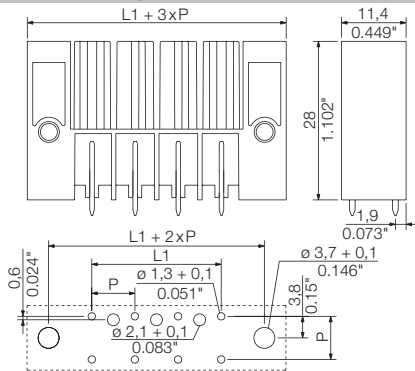
**Representative deratings curve**



BVL 7.62HP../180FI



Dimensioned drawing



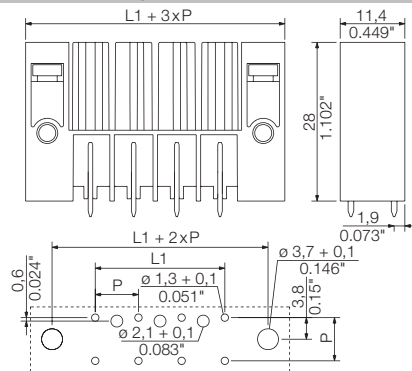
Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928730000
3	15.24	0.600	100	1928740000
4	22.86	0.900	100	1928750000
5	30.48	1.200	50	1928760000
6	38.10	1.500	50	1928770000
7	45.72	1.800	50	1928780000

BVL 7.62HP../180SFI



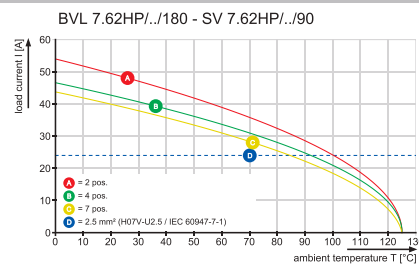
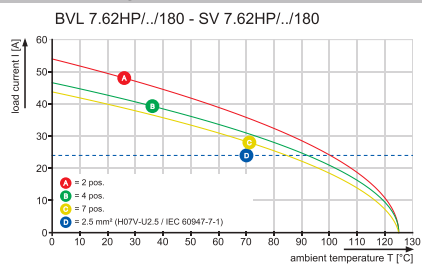
Dimensioned drawing



Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928840000
3	15.24	0.600	100	1928850000
4	22.86	0.900	100	1928860000
5	30.48	1.200	50	1928870000
6	38.10	1.500	50	1928900000
7	45.72	1.800	50	1928910000

Additional deratings curves



**Connectors, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVL 7.62HP../270**



Finger-safe female header with 270° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>56.8</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG	-	-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 56.8 A  
 UL: 300 V / 35 A

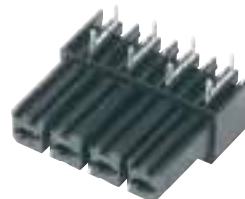


For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

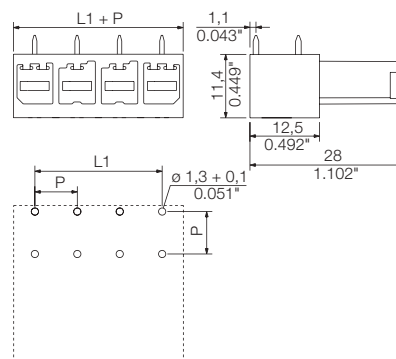
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BVL 7.62HP../270**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

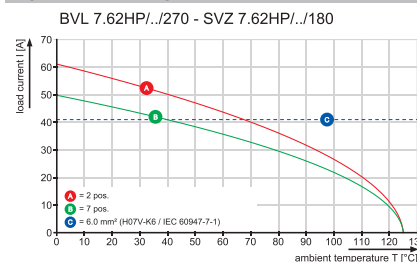
Coding	Order No.
BV/SV 7.62HP K0	1937590000



**Ordering data**

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929300000
3	15.24	0.600	100	1929310000
4	22.86	0.900	100	1929320000
5	30.48	1.200	50	1929330000
6	38.10	1.500	50	1929340000
7	45.72	1.800	50	1929350000

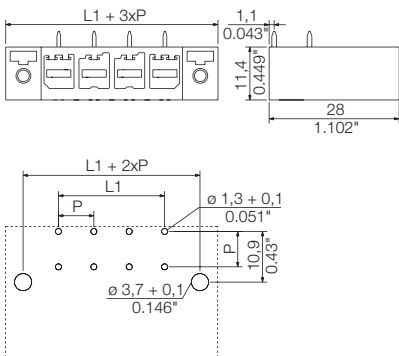
**Representative deratings curve**



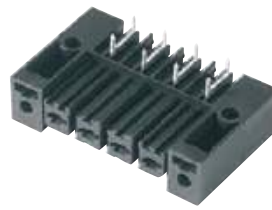
BVL 7.62HP../270FI



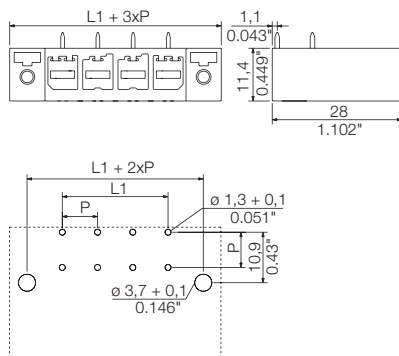
Dimensioned drawing



BVL 7.62HP../270SFI



Dimensioned drawing



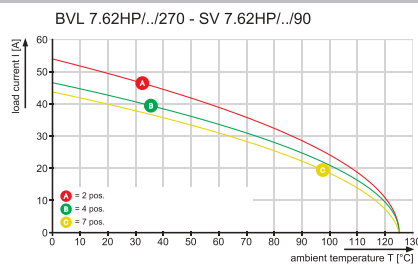
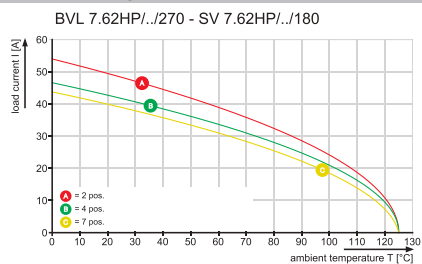
Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929410000
3	15.24	0.600	100	1929420000
4	22.86	0.900	100	1929430000
5	30.48	1.200	50	1929440000
6	38.10	1.500	50	1929450000
7	45.72	1.800	50	1929460000

Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929520000
3	15.24	0.600	100	1929530000
4	22.86	0.900	100	1929540000
5	30.48	1.200	50	1929550000
6	38.10	1.500	50	1929560000
7	45.72	1.800	50	1929570000

Additional deratings curves





## Increased current for better performance

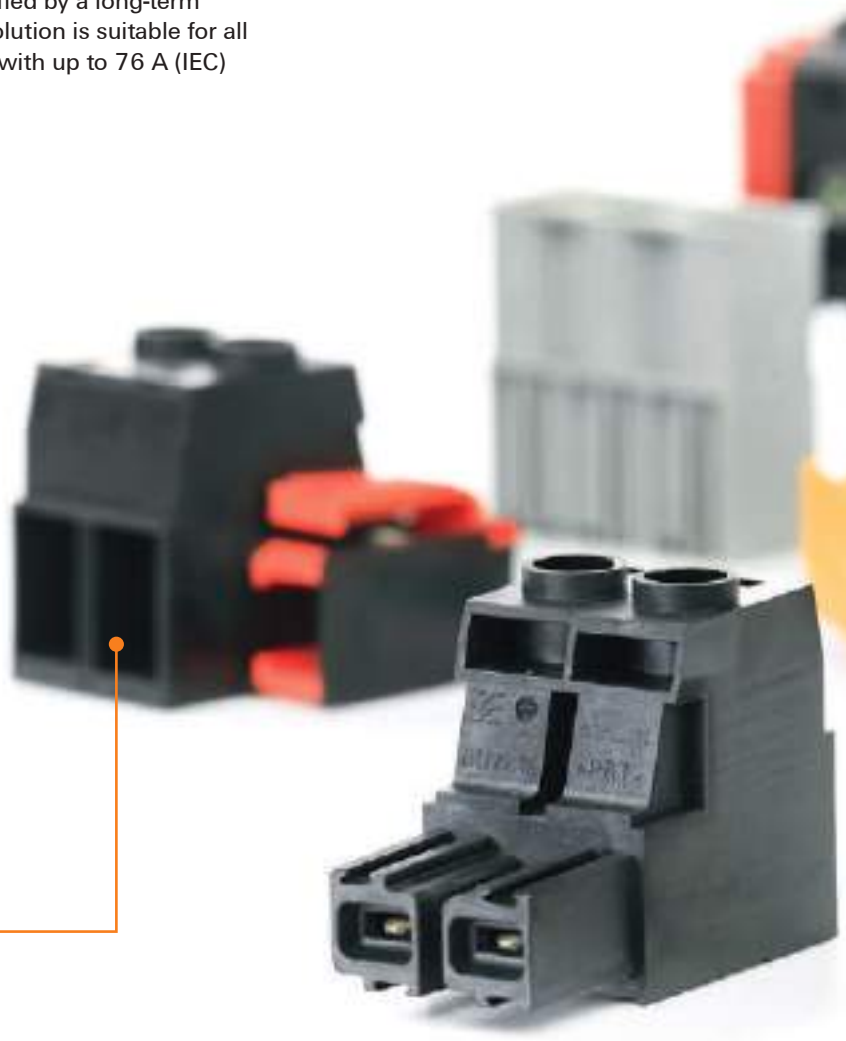
The top class in the OMNIMATE® Power SU / BUZ 10.16HP connector system features a very durable contact system which makes it a pluggable power transmission solution with maximum load reserves.

P

HP stands for High Performance – performance exemplified by a long-term usage temperature of 120 °C. This custom, pluggable solution is suitable for all applications that must meet 600 V UL or 1,000 V (IEC) with up to 76 A (IEC) and 54 A (UL).

### Compact reliability

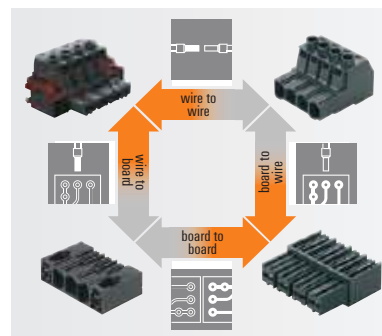
Silver-plated contacts with stainless-steel top springs can tolerate short-circuit currents of 1,000 A for one second. Weidmüller's classic clamping yoke features a plus-minus screw and is protected against under insertion. It ensures a long-term, reliable connection.





**High system performance**

The OMNIMATE® Power System up to 16 mm<sup>2</sup> can be individually combined with plugging mates that have an interlocking flange. It is also possible for the plugging mate to be screwed on.



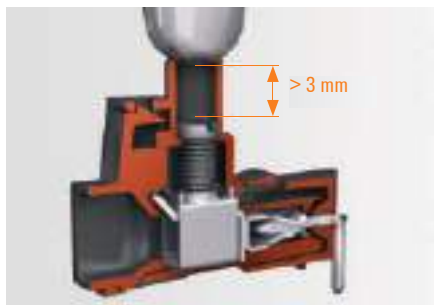
**Individualised configuration**

Clear printed labelling and customised coding are used to prevent damage that could be caused by installation mistakes.



**Compact integration**

No compromises during design and approval: compact and standard-compliant with additional + 3.0 mm finger safety, according to IEC 61800-5-1, and increased creepage and clearance distances according to UL.



## Touch-safe female header for power electronics

### OMNIMATE® Power – plug-in connections for high power up to 76 A

#### P

Touch-safe protection for the contact blade is an important factor when considering high-power connectors. However such protection is currently quite difficult to design into standard products because of the size of the plug contacts.

We meet this challenge with our new BUL 10.16 female header in 10.16 mm pitch. The inverted plug ensures reliable touch protection for the unplugged, live side. This makes the BUL 10.16 a perfect-fit solution for board-to-wire connection in high-power electronics. You can also establish board-to-board connections when combined with the SU 10.16 HP standard male header.

#### Cannot be wrongly inserted

Only mated plugs with the same pole count fit together. The plugs' mating profiles make it impossible to connect plugs with different pole counts together.



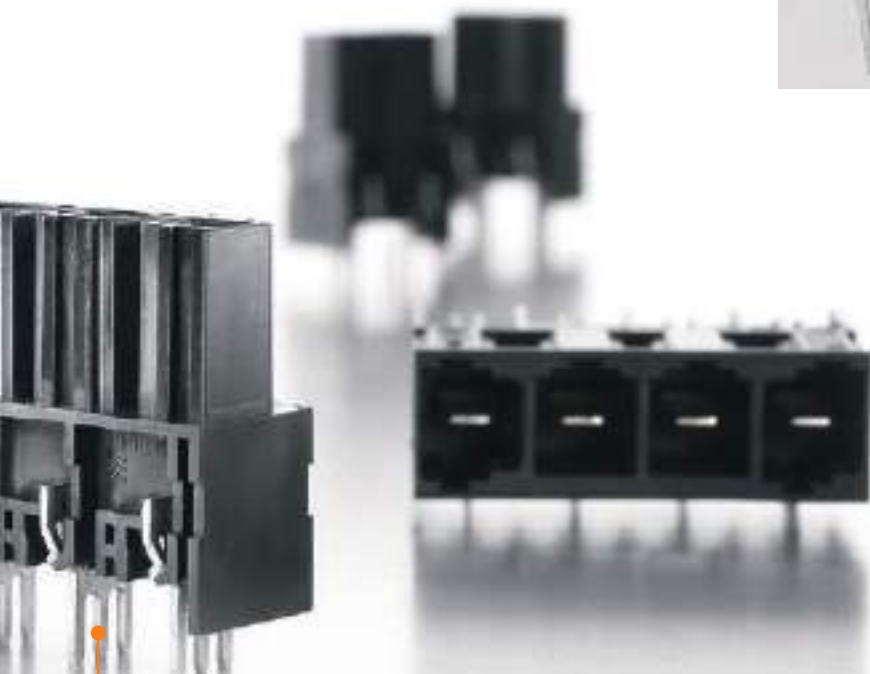
#### Plugging errors are not possible

With inserted coding elements, the male plug can only be connected with its corresponding female header.



**Non-rotating assembly**

Improved reliability while assembling the circuit board: An integrated coding pin serves as an assembly guide so that the plug cannot be accidentally turned 180°.

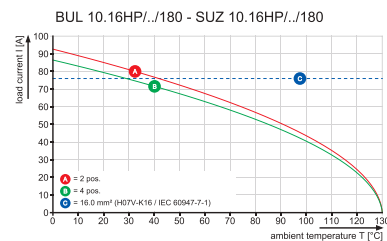


**High performance**

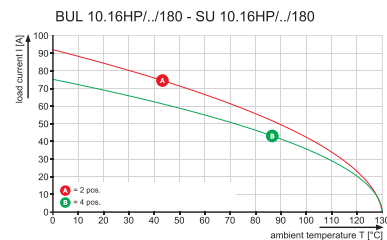
Three solder pins per pole provide the necessary mechanical strength while ensuring maximum current specifications.



**Derating curve for the BUL 10.16 HP female header together with the SUZ 10.16 HP male plug**



**Derating curve for the BUL 10.16 HP female header together with the SU 10.16 HP male header**



# Secure and efficient connection of power electronics devices

## PUSH IN-connector with wire-ready function

### P

High power applications need connection by wires with huge cross sections, which typically are inflexible. Large PUSH IN connections are therefore difficult to plug in. Special tools are often needed for installation in narrow areas or for wiring with flexible wires without ferrules.

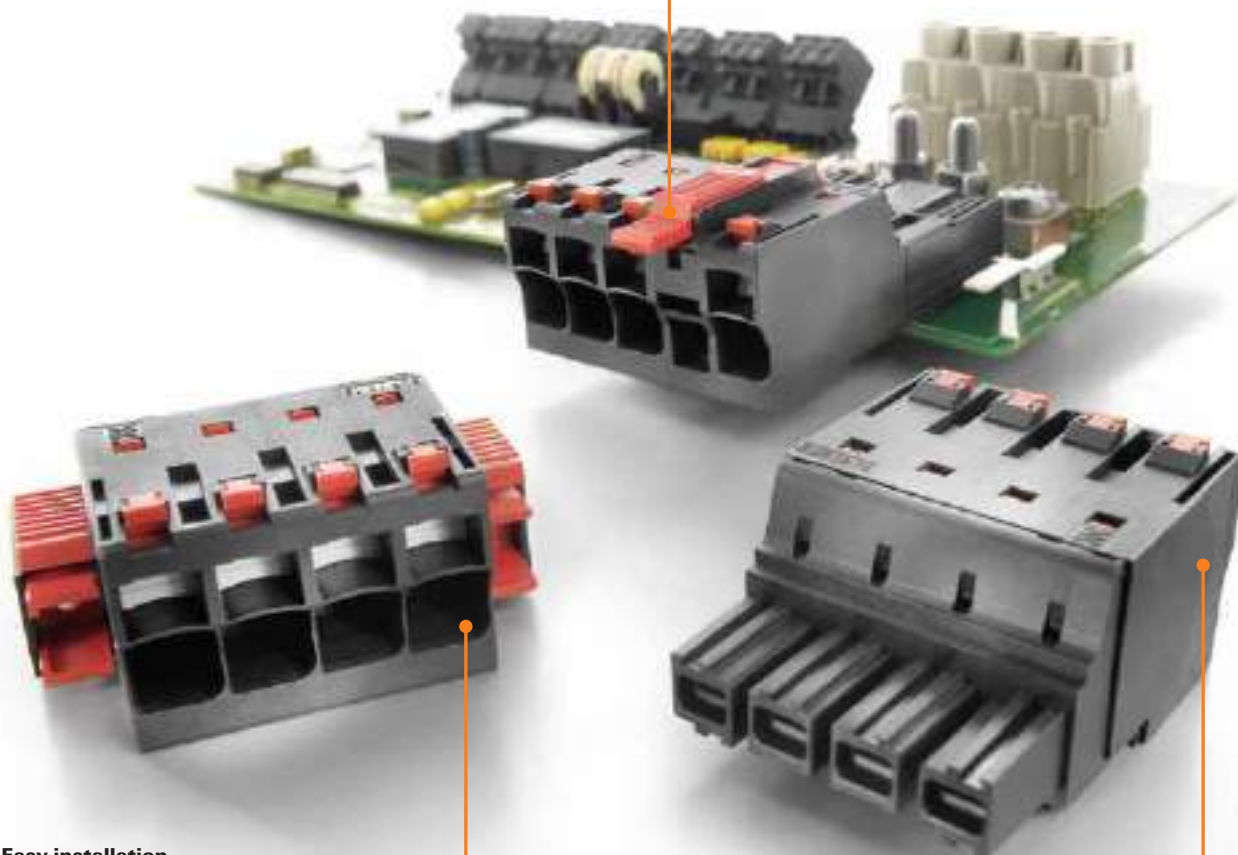
BUF 10.16 facilitates and accelerates this process and does not require additional tools. The operating lever which can be locked in open position (pusher) makes it yet possible to insert conductors with short cladding or rigid insulation into the open terminal. This means that the proven PUSH IN function remains unrestricted while the terminal point, fixed in an open position, allows a comfortable and easy connection under difficult conditions. The result is a noticeable saving of time.

#### Your special advantages:

- PUSH IN-technology with open position fixed clamping point
- Tool-free wiring of flexible wires without ferrules and wires with rigid isolation
- Easy one-hand operation of the connector
- Automatic locking by a centre flange with detent fixing and optional screw fixing

**Easy one hand operation**

Automatic locking by a centre flange with detent fixing and optional screw fixing.



**Easy installation**

PUSH IN technology with open position fixed clamping point for easy wiring of flexible wires without ferrules and wires with rigid isolaton.







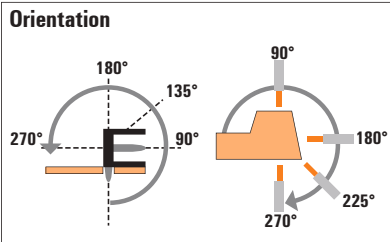
**Fast wiring**

The PUSH IN connection system allows a tool-free connection of solid wires or wires with ferrules.



<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



P

**BU/SU 10.16 series**





Type

Orientation



Flange options

Product code numbers

		Type	Orientation	Flange options	Product code numbers
Female plug	 <b>Screw Clamping yoke</b>	 <b>BUZ</b>	180°	(G)/F/SF	IEC: 1.000 V/78 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4
	 <b>Spring PUSH IN</b>	 <b>BUF IT</b>	180°	(G)/F/SF	IEC: 1.000 V/78 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 4
		 <b>BUF IT SH</b>	180°	(G)/F/SF	IEC: 1.000 V/78 A/0,2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 4
Female header	 <b>Solder connection</b>	 <b>BUL</b>	180°	on request	"IEC: 1.000 V/76 A UL: 300 V/57 A"

**Female:**  
**(G)** = without flange  
**F** = Interlock flange  
**SF** = Interlock flange with screw

**Pin:**  
**G** = Closed (without flange)  
**F** = Interlock flange  
**SF** = Interlock flange with nut

Male header	Male plug
 <b>Solder connection</b>	 <b>Screw Clamping yoke</b>



SU	SU	SU	SUZ
90°	180°	270°	180°
G/F	G/F/SF	G/F/SF	G
IEC: 1.000 V/76 A UL: 300 V/54 A"	IEC: 1.000 V/76 A UL: 300 V/54 A"	EC: 1.000 V/76 A UL: 300 V/54 A"	IEC: 1.000 V/78 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/57 A/AWG 24 - 4
○	○	○	●
○	○	○	●
○	○	○	●
●	●	●	●



**Connectors, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**SU 10.16HP../90**



Male header with 90° outlet direction for TNC(S) systems. UL approval for 600 V in acc. with UL508-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

**Product data**

IEC: 1000 V / 78.3 A  
 UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

**Note:**

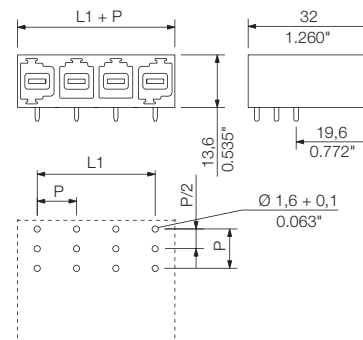
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SU 10.16HP../90G**

without flanges



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
Mounting screw	
SU 10.16 BFSC P 35X 14	2812340000
SU 10.16 BFSC S 35X12	2812290000

**Ordering data**

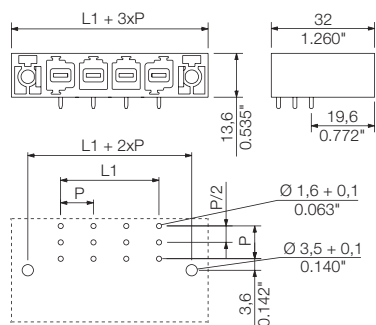
Solder pin length		3.5 mm		
Colour		black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	90	1813330000
3	20.32	0.800	1	1813340000
4	30.48	1.200	42	1813350000
5	40.64	1.600	36	1813360000
6	50.80	2.000	30	1813370000
7	60.96	2.400	24	1813380000
8	71.12	2.800	18	1813390000
9	81.28	3.200	18	1813400000

### SU 10.16HP../90F

#### Interlock flanges



Dimensioned drawing



#### Ordering data

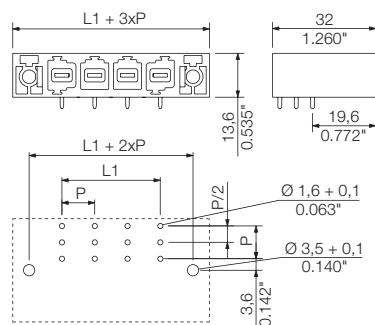
Solder pin length		3.5 mm		
Colour		black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	42	1813570000
3	20.32	0.800	36	1813580000
4	30.48	1.200	30	1813590000
5	40.64	1.600	24	1813600000
6	50.80	2.000	18	1813610000
7	60.96	2.400	18	1813620000
8	71.12	2.800	18	1813630000
9	81.28	3.200	12	1813640000

### SU 10.16HP../90SF

#### Interlock flanges with nuts



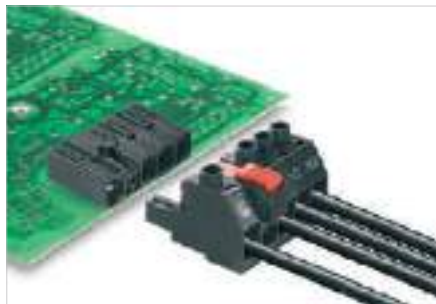
Dimensioned drawing



#### Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	42	1851040000
3	20.32	0.800	36	1851050000
4	30.48	1.200	30	1851060000
5	40.64	1.600	24	1851070000
6	50.80	2.000	18	1851080000
7	60.96	2.400	18	1851090000
8	71.12	2.800	18	1851100000
9	81.28	3.200	12	1851110000

### SU 10.16HP../90MF



Male header in 90° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

### Product data

IEC: 1000 V / 78.3 A  
UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

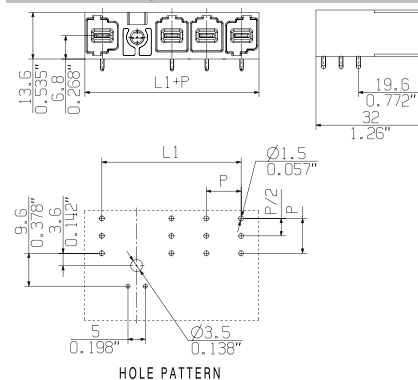
#### Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### SU 10.16HP../90MF2



#### Dimensioned drawing



### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
<b>Mounting screw</b>	
SU 10.16 BFSC P 35X 14	2812340000
SU 10.16 BFSC S 35X12	2812290000

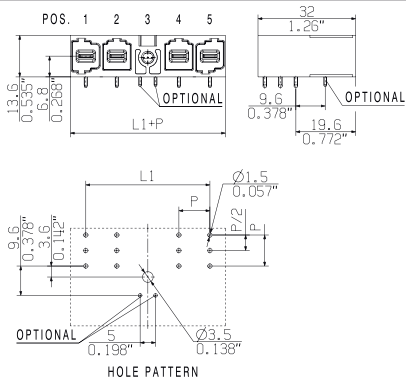
### Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	60	2580340000
3	30.48	1.200	42	2580390000
4	40.64	1.600	36	2580410000
5	50.80	2.000	30	2597200000
6	60.96	2.400	24	2597210000

SU 10.16HP/./90MF3



Dimensioned drawing



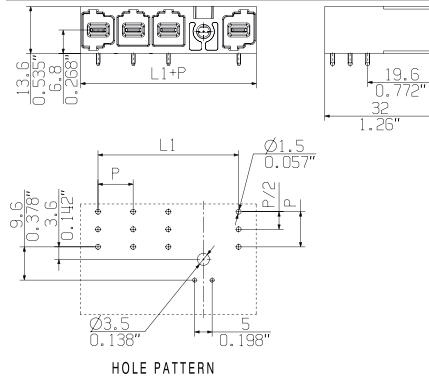
Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
3	30.48	1.200	42 2580400000
4	40.64	1.600	36 2580420000
5	50.80	2.000	30 2597220000
6	60.96	2.400	24 2597230000

SU 10.16HP/./90MF4



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
4	40.64	1.600	36 2580430000
5	50.80	2.000	30 2597240000
6	60.96	2.400	24 2597250000

**Connectors, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**SU 10.16HP../180**



Male header with 180° outlet direction for TNC(S) systems. UL approval for 600 V in acc. with UL508-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity and integral positioning aid.

Variants: flange and screw flange fastening.

**Product data**

IEC: 1000 V / 78.3 A  
 UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

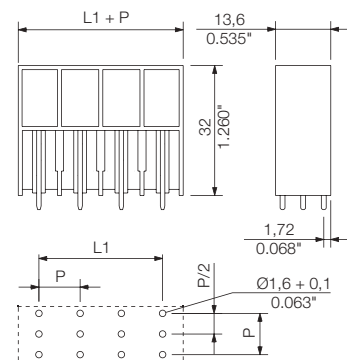
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SU 10.16HP../180G**

without flanges



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Protection against twisting	Order No.
VDS180 SV7.62	1853940000
<b>Coding</b>	
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
<b>Mounting screw</b>	
SU 10.16 BFSC P 35X 14	2812340000
SU 10.16 BFSC S 35X12	2812290000

**Ordering data**

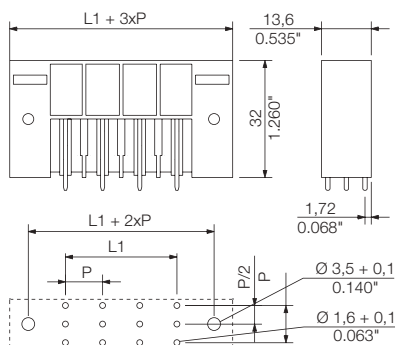
Solder pin length		3.5 mm		
Colour		black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	90	1813410000
3	20.32	0.800	60	1813420000
4	30.48	1.200	42	1813430000
5	40.64	1.600	36	1813440000
6	50.80	2.000	30	1813450000
7	60.96	2.400	24	1813460000
8	71.12	2.800	18	1813470000
9	81.28	3.200	18	1813480000

### SU 10.16HP../180F

#### Interlock flanges



Dimensioned drawing



#### Ordering data

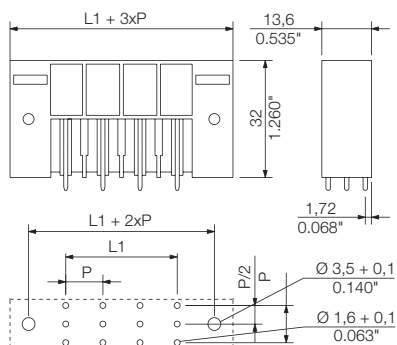
Solder pin length		3.5 mm		
Colour		black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	42	1813650000
3	20.32	0.800	36	1813660000
4	30.48	1.200	30	1813670000
5	40.64	1.600	24	1813680000
6	50.80	2.000	18	1813690000
7	60.96	2.400	18	1813700000
8	71.12	2.800	18	1813710000
9	81.28	3.200	12	1813720000

### SU 10.16HP../180SF

#### Interlock flanges with nuts



Dimensioned drawing

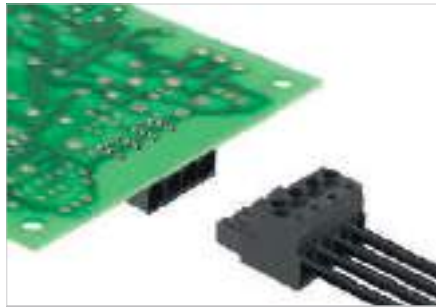


#### Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	42	1850880000
3	20.32	0.800	36	1850890000
4	30.48	1.200	30	1850900000
5	40.64	1.600	24	1850910000
6	50.80	2.000	18	1850920000
7	60.96	2.400	18	1850930000
8	71.12	2.800	18	1850940000
9	81.28	3.200	12	1850950000

**Connectors, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**SU 10.16HP../270**



Male header with 270° outlet direction for TNC(S) systems. UL approval for 600 V in acc. with UL508-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

**Product data**

IEC: 1000 V / 78.3 A  
 UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

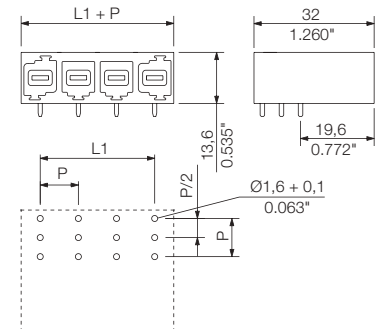
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SU 10.16HP../270G**

without flanges



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
<b>Mounting screw</b>	
SU 10.16 BFSC P 35X 14	2812340000
SU 10.16 BFSC S 35X12	2812290000

**Ordering data**

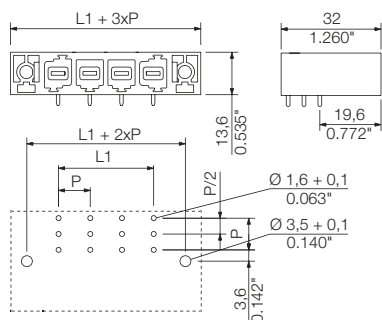
<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	black			
<b>Pitch</b>	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	90	1813490000
3	20.32	0.800	60	1813500000
4	30.48	1.200	42	1813510000
5	40.64	1.600	36	1813520000
6	50.80	2.000	30	1813530000
7	60.96	2.400	24	1813540000
8	71.12	2.800	18	1813550000
9	81.28	3.200	18	1813560000

### SU 10.16HP/./270F

#### Interlock flanges



Dimensioned drawing



#### Ordering data

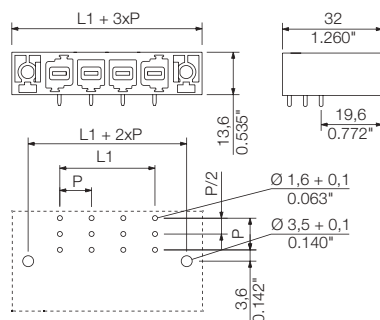
Solder pin length		3.5 mm		
Colour		black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	42	1813730000
3	20.32	0.800	36	1813740000
4	30.48	1.200	30	1813750000
5	40.64	1.600	24	1813760000
6	50.80	2.000	18	1813770000
7	60.96	2.400	18	1813780000
8	71.12	2.800	18	1813790000
9	81.28	3.200	12	1813800000

### SU 10.16HP/./270SF

#### Interlock flanges with nuts



Dimensioned drawing



#### Ordering data

Solder pin length		3.5 mm		
Colour		black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	42	1851120000
3	20.32	0.800	36	1851130000
4	30.48	1.200	30	1851140000
5	40.64	1.600	24	1851150000
6	50.80	2.000	18	1851160000
7	60.96	2.400	18	1851170000
8	71.12	2.800	18	1851180000
9	81.28	3.200	12	1851190000



**Connectors, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**SU 10.16HP../270MF**



Male header with 270° outlet direction for TNC(S) systems. UL approval for 600 V in acc. with UL508-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

**Product data**

IEC: 1000 V / 78.3 A  
 UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

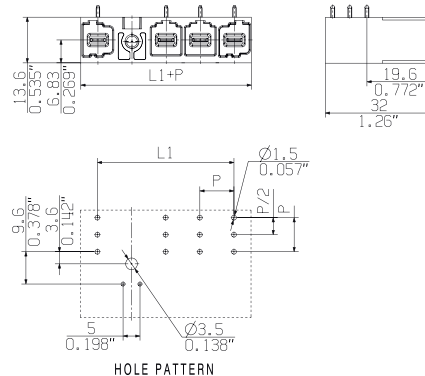
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SU 10.16HP../270MF2**



**Dimensioned drawing**



**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG	-	-
<b>General data</b>			
Type of insulation material			
UL 94 flammability rating			
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2	1.1
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
<b>Mounting screw</b>	
SU 10.16 BFSC P 35X 14	2812340000
SU 10.16 BFSC S 35X12	2812290000

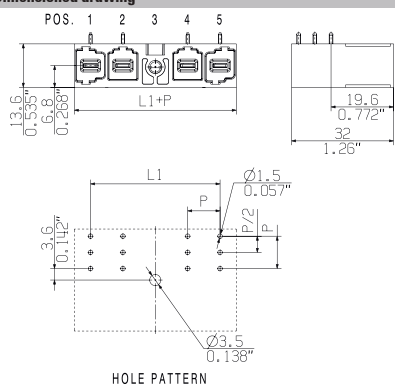
**Ordering data**

<b>Solder pin length</b>		3.5 mm	
<b>Colour</b>		black	
<b>Pitch</b>		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
2	10.16	0.400	60 2580350000
3	20.32	0.800	42 2580830000
4	30.48	1.200	36 2580860000
5	40.64	1.600	30 2597290000
6	50.80	2.000	24 2597300000

SU 10.16HP../270MF3



Dimensioned drawing



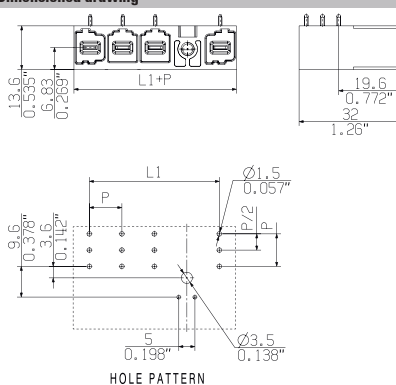
Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
3	20.32	0.800	42 <b>2580850000</b>
4	30.48	1.200	36 <b>2580870000</b>
5	40.64	1.600	30 <b>2597310000</b>
6	50.80	2.000	24 <b>2597320000</b>

SU 10.16HP../270MF4



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	36 <b>2580880000</b>
5	40.64	1.600	30 <b>2597330000</b>
6	50.80	2.000	24 <b>2597340000</b>

**Connectors, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**SUZ 10.16HP/./180**



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch safety of more than 3 mm according to IEC 61800-5-1 when connected.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange on request.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.25...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>78</b>	<b>72</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	57	57 5
AWG conductor	AWG	24-6	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 78 A / 0.2 - 16 mm<sup>2</sup>  
 UL: 600 V / 57 A / AWG 24 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

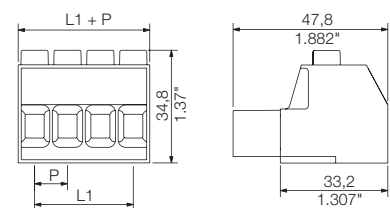
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**SUZ 10.16HP/./180G**



**Dimensioned drawing**



**Accessories**

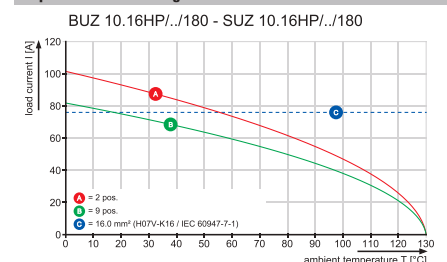
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
Screwdriver	
SDIS 1.0X5.5X125	2749850000
Crosshead screwdriver	
SDIK PZ2 X 100	2749930000
SDK PZ2 X 100	2749450000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	64	1947480000
3	20.32	0.800	44	1947490000
4	30.48	1.200	32	1947500000
5	40.64	1.600	26	1947510000
6	50.80	2.000	22	1966920000
7	60.96	2.400	18	1966930000
8	71.12	2.800	16	1962400000
9	81.28	3.200	14	1966910000

**Representative deratings curve**





**Connectors, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**BUZ 10.16HP/./180**



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. Ensures touch-safety of

> 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

**Product data**

IEC: 1000 V / 78.3 A / 0.2 - 16 mm<sup>2</sup>  
 UL: 600 V / 60 A / AWG 22 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

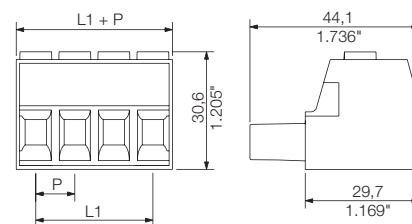
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BUZ 10.16HP/./180**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.25...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...16	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B C D</b>	<b>B C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>22-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B C D</b>	<b>B C D</b>
Rated voltage	V	600	600 600
Rated current	A	60	60 5
AWG conductor	AWG	22-4	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

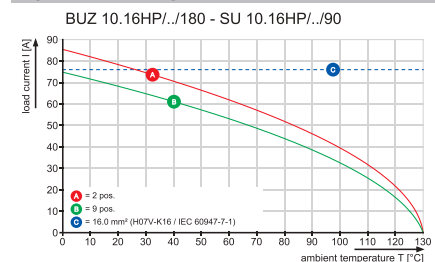
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
Screwdriver	
SDIS 1.0X5.5X125	2749850000
Crosshead screwdriver	
SDIK PZ2 X 100	2749930000
SDK PZ2 X 100	2749450000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	60	1924540000
3	20.32	0.800	40	1924550000
4	30.48	1.200	28	1924560000
5	40.64	1.600	24	1924570000
6	50.80	2.000	20	1924580000
7	60.96	2.400	16	1924590000
8	71.12	2.800	12	1924600000
9	81.28	3.200	12	1924610000

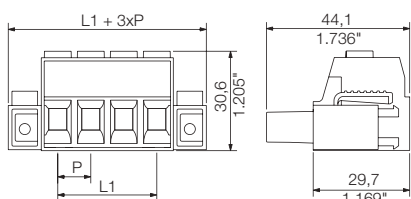
**Representative deratings curve**



**BUZ 10.16HP../180F**



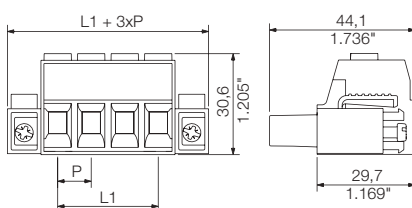
Dimensioned drawing



**BUZ 10.16HP../180SF**



Dimensioned drawing



**Ordering data**

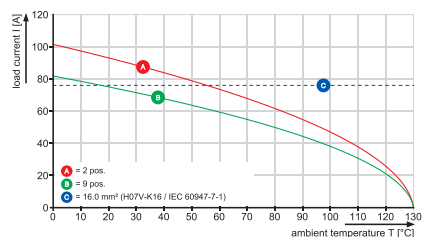
Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	28	1924620000	
3	20.32	0.800	24	1924630000	
4	30.48	1.200	20	1924640000	
5	40.64	1.600	16	1924650000	
6	50.80	2.000	12	1924660000	
7	60.96	2.400	12	1924670000	
8	71.12	2.800	12	1924680000	
9	81.28	3.200	8	1924690000	

**Ordering data**

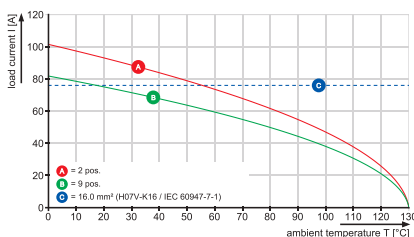
Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	28	1924700000	
3	20.32	0.800	24	1924710000	
4	30.48	1.200	20	1924720000	
5	40.64	1.600	16	1924740000	
6	50.80	2.000	12	1924750000	
7	60.96	2.400	12	1924760000	
8	71.12	2.800	12	1924770000	
9	81.28	3.200	8	1924780000	

**Additional deratings curves**

BUZ 10.16HP../180 - SU 10.16HP../180



BUZ 10.16HP../180 - SUZ 10.16HP../180

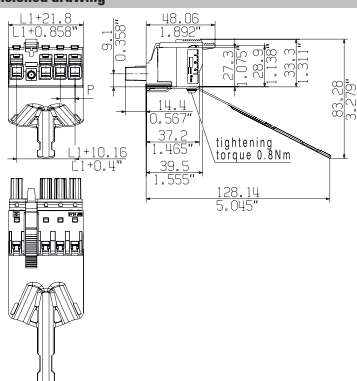




BUF 10.16IT../180MF2 SH180



Dimensioned drawing



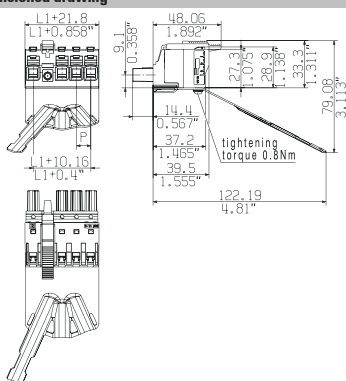
Ordering data

Solder pin length				
Colour				black
Pitch 10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	2627710000
4	40.64	1.600	20	2627720000

BUF 10.16IT../180MF2 SH200



Dimensioned drawing

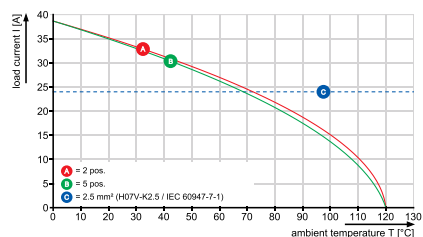


Ordering data

Solder pin length				
Colour				black
Pitch 10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	2627760000
4	40.64	1.600	20	2627770000

Additional deratings curves

BUF 10.16IT../180 - SU 10.16HP../90



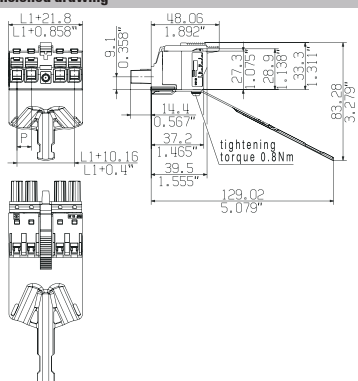




BUF 10.16IT../180MF3 SH180



Dimensioned drawing



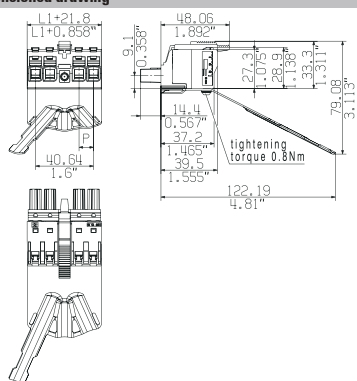
Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	2627730000
4	40.64	1.600	20	2627740000

BUF 10.16IT../180MF3 SH200



Dimensioned drawing

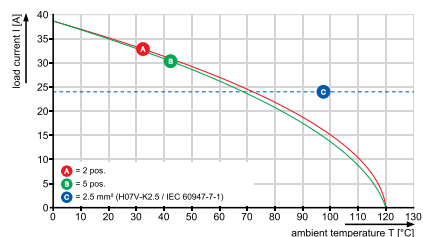


Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	2627780000
4	40.64	1.600	20	2627790000

Additional deratings curves

BUF 10.16IT../180 - SU 10.16HP../90



BUF 10.16IT../180MF SH



PUSH IN female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

Technical data

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>34</b>	<b>34</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

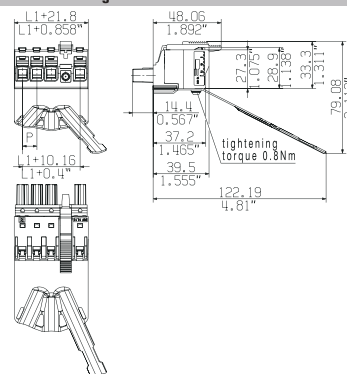
Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

BUF 10.16IT../180MF4 SH160



Dimensioned drawing



Accessories

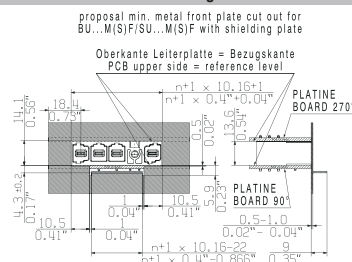
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BU/SU10.16HP BK	1824410000
	KO BU/SU10.16HP WT	2592600000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	2749370000

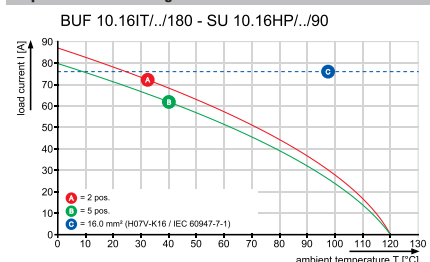
Ordering data

<b>Solder pin length</b>				
<b>Colour</b>				
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4			20	2638870000

Representative dimensional drawing



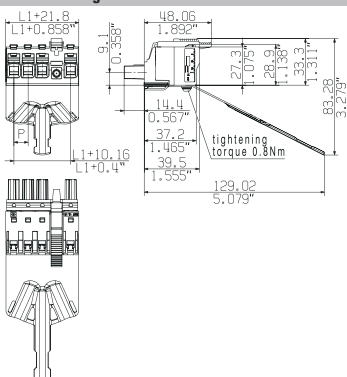
Representative deratings curve



BUF 10.16IT../180MF4 SH180



Dimensioned drawing



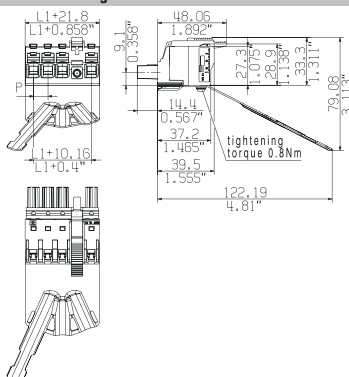
Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	40.64	1.600	20	2627750000

BUF 10.16IT../180MF4 SH200



Dimensioned drawing

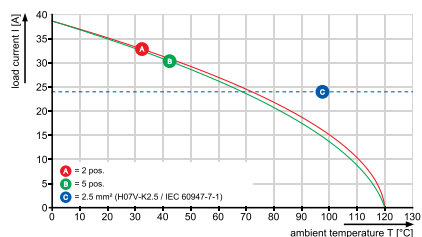


Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	40.64	1.600	20	2627800000

Additional deratings curves

BUF 10.16IT../180 - SU 10.16HP../90

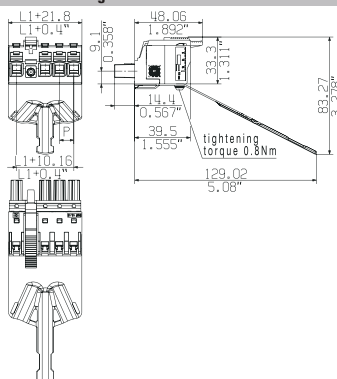




BUF 10.16IT../180MSF2 SH180



Dimensioned drawing



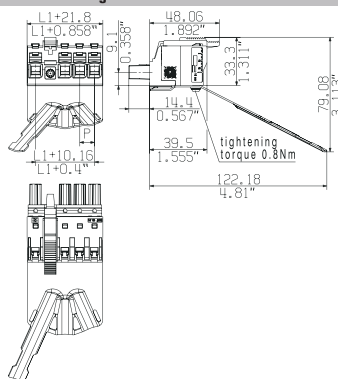
Ordering data

Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	30.48	1.200	20	2627860000	
4	40.64	1.600	20	2627870000	

BUF 10.16IT../180MSF2 SH200



Dimensioned drawing

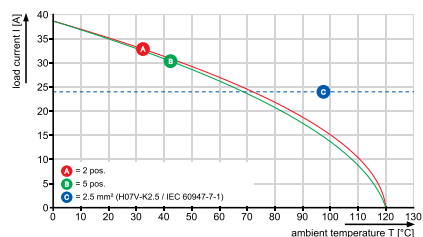


Ordering data

Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	30.48	1.200	20	2627910000	
4	40.64	1.600	20	2627920000	

Additional deratings curves

BUF 10.16IT../180 - SU 10.16HP../90



BUF 10.16IT../180MSF SH



PUSH IN female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>34</b>	<b>34</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

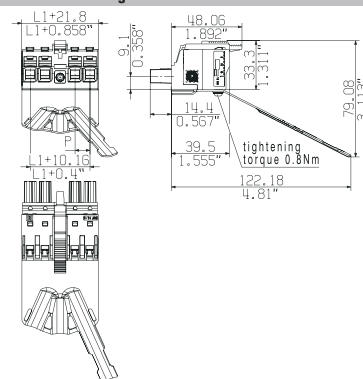
Note:

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

BUF 10.16IT../180MSF3 SH160



Dimensioned drawing



Accessories

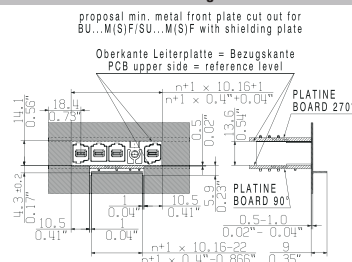
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
Screwdriver	
SDS 0.8X4.5X125	2749370000

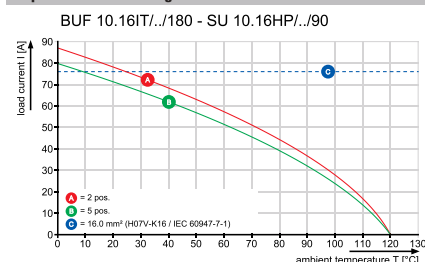
Ordering data

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	20	2627830000
4	40.64	1.600	20	2627840000

Representative dimensional drawing



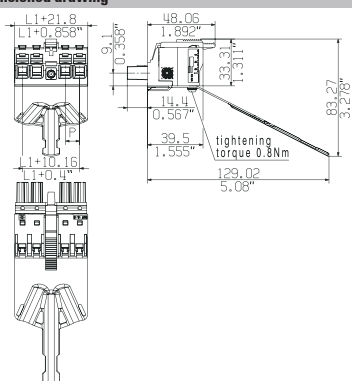
Representative deratings curve



**BUF 10.16IT../180MSF3 SH180**



**Dimensioned drawing**



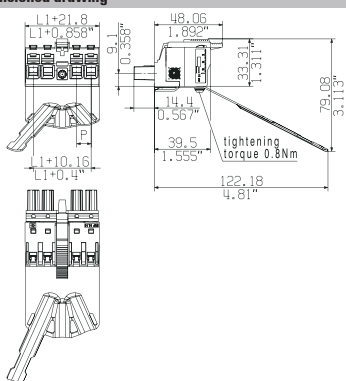
**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627880000</b>
4	40.64	1.600	20	<b>2627890000</b>

**BUF 10.16IT../180MSF3 SH200**



**Dimensioned drawing**

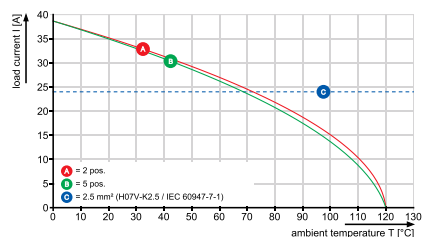


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
3	30.48	1.200	20	<b>2627930000</b>
4	40.64	1.600	20	<b>2627940000</b>

**Additional deratings curves**

BUF 10.16IT../180 - SU 10.16HP../90





**Connectors, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**BUF 10.16IT../180MSF SH**



**PUSH IN** female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B C D</b>	
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>34</b>	<b>34</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B C D</b>	
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

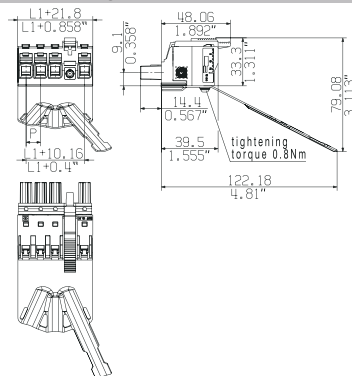
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BUF 10.16IT../180MSF4 SH160**



**Dimensioned drawing**



**Accessories**

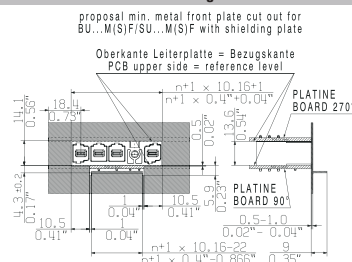
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP BK	1824410000
KO BU/SU10.16HP WT	2592600000
Screwdriver	
SDS 0.8X4.5X125	2749370000

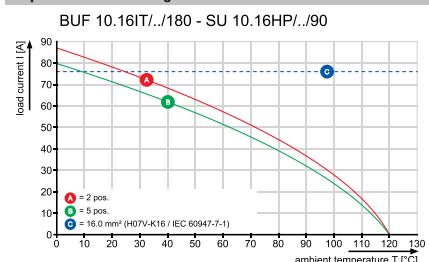
**Ordering data**

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	40.64	1.600	20	2627850000

**Representative dimensional drawing**



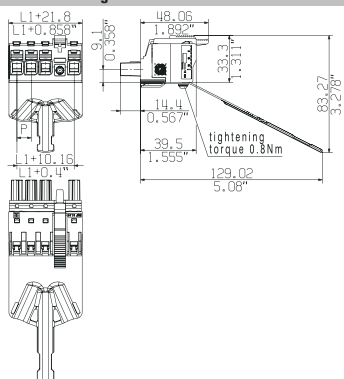
**Representative deratings curve**



**BUF 10.16IT../180MSF4 SH180**



**Dimensioned drawing**



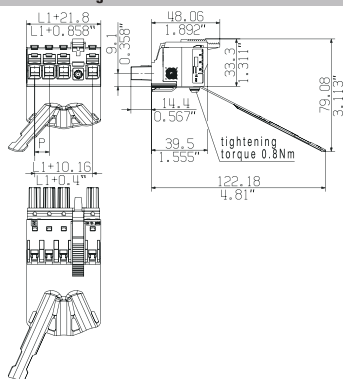
**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4	40.64	1.600	20	2627900000

**BUF 10.16IT../180MSF4 SH200**



**Dimensioned drawing**

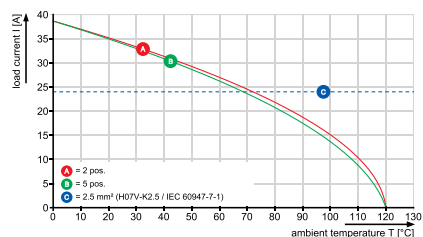


**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
4	40.64	1.600	20	2627950000

**Additional deratings curves**

BUF 10.16IT../180 - SU 10.16HP../90



**Connectors, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**BUF 10.16IT../180**



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. Ensures touch-safety of

> 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

**Product data**

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 34 A / AWG 12 - 6



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

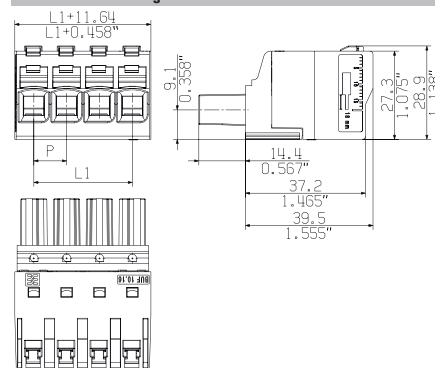
**Note:**

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BUF 10.16IT../180**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>34</b>	<b>34</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG	-	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

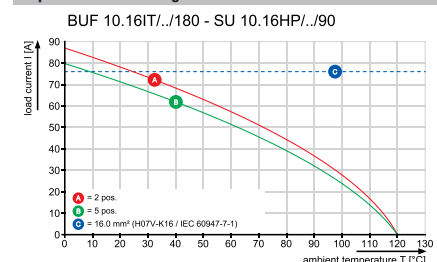
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BU/SU10.16HP BK	1824410000
	KO BU/SU10.16HP WT	2592600000
Screwdriver		
	SDS 0.8X4.5X125	2749370000

**Ordering data**

Solder pin length				
Colour	black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	56	2493170000
3	20.32	0.800	36	2493400000
4	30.48	1.200	28	2493410000
5	40.64	1.600	24	2493420000
6	50.80	2.000	20	2586520000
7	60.96	2.400	20	2586550000
8	71.12	2.800	20	2586560000
9	81.28	3.200	20	2586570000

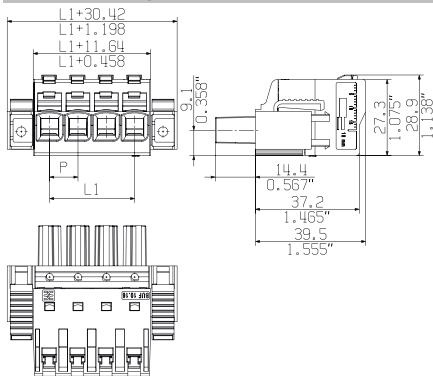
**Representative deratings curve**



BUF 10.16IT../180F



Dimensioned drawing



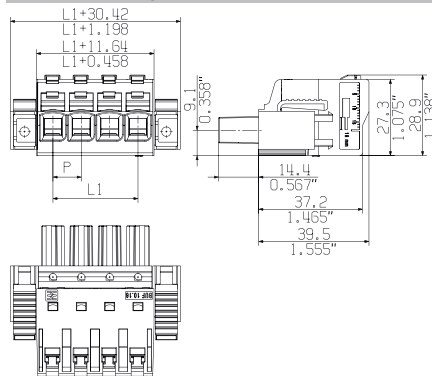
Ordering data

Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	28	2493300000	
3	20.32	0.800	24	2493310000	
4	30.48	1.200	20	2493320000	
5	40.64	1.600	16	2493330000	
6	50.80	2.000	16	2586530000	
7	60.96	2.400	20	2586580000	
8	71.12	2.800	20	2586650000	
9	81.28	3.200	20	2586600000	

BUF 10.16IT../180SF



Dimensioned drawing

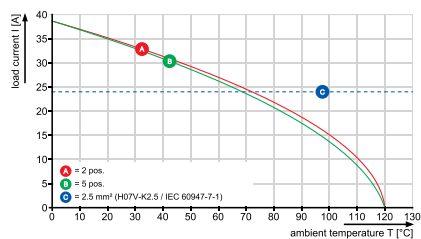


Ordering data

Solder pin length					
Colour					black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	28	2493340000	
3	20.32	0.800	24	2493350000	
4	30.48	1.200	20	2493360000	
5	40.64	1.600	16	2493370000	
6	50.80	2.000	20	2586610000	
7	60.96	2.400	20	2586620000	
8	71.12	2.800	20	2586630000	
9	81.28	3.200	20	2586640000	

Additional deratings curves

BUF 10.16IT../180 - SU 10.16HP../90



**Connectors, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**BUL 10.16HP../180**



Finger-safe female header with 180° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL508 / UL840 for 600 V. An ideal finger-safe solution for power output and DC-link applications. The pin arrangement is finger-safe. The assembly coding ensures that it cannot be assembled on the PCB turned through 180°.

**Features:**

- Derating up to 130°C, 100%
- Pin arrangement that prevents wrong connections or wrong wiring
- Unique coding diversity and assembly coding

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>69</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	57	57 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 76 A  
 UL: 300 V / 57 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

**Note:**

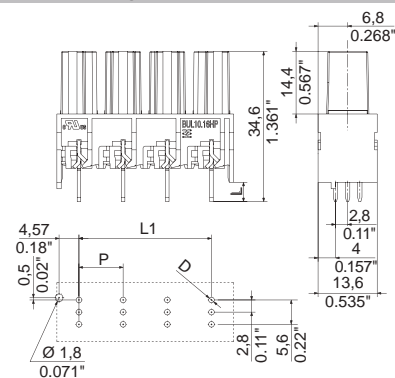
- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**BUL 10.16HP../180**

**Without flange**



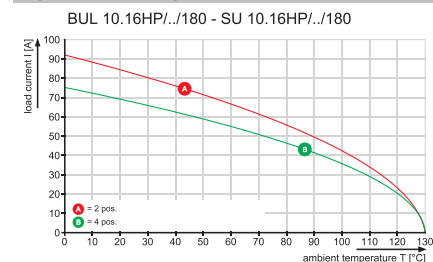
**Dimensioned drawing**



**Ordering data**

<b>Solder pin length</b>	4.5 mm			
<b>Colour</b>	black			
<b>Pitch</b>	10.16 mm			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	10.16	0.400	50	1289000000
3	20.32	0.800	50	1341270000
4	30.48	1.200	50	1289010000

**Representative deratings curve**



# OMNIMATE® Power BUS connection system

<b>OMNIMATE® Power BUS connection system</b>	Explanation <span style="float: right;">0.2</span>
	OMNIMATE® Power BUS connection system 160 A <span style="float: right;">0.4</span>

# Quick and simple installation of energy recovery by DC-Link for drives

## OMNIMATE® Power BUS connection system

In the field of power electronics, straightforward and economical installation is becoming increasingly important. The new OMNIMATE® Power BUS connection system is the optimal busbar solution for use in IP20 multi-axis servo drives for intermediate circuits for energy recovery and 24V control voltage supplies.

The innovative latch-in bus system consists of two different busbar connectors with spring contacts. They enable a fast, tool-free connection of individual modules in addition to the connection of the entire module network to the power supply. A significant advantage of the modular system is the possibility of connecting intermediate circuits to the front or top of the device. Thus, the system is ideally adaptable to any particular installation conditions.

### Your special advantages:

- Quick and easy installation of multi-axis servo drives without tools
- 100 % finger-safe system construction due to insulation end cap
- Safe latching of the busbar connectors
- Tolerance compensation for a module offset of up to 2 mm
- Simple device integration and uncomplicated device approval

**High safety**

The system guarantees a secure, absolutely finger-safe latching of the busbar connectors. The tolerance compensation of the rail system facilitates the secure fastening of the entire axle system.



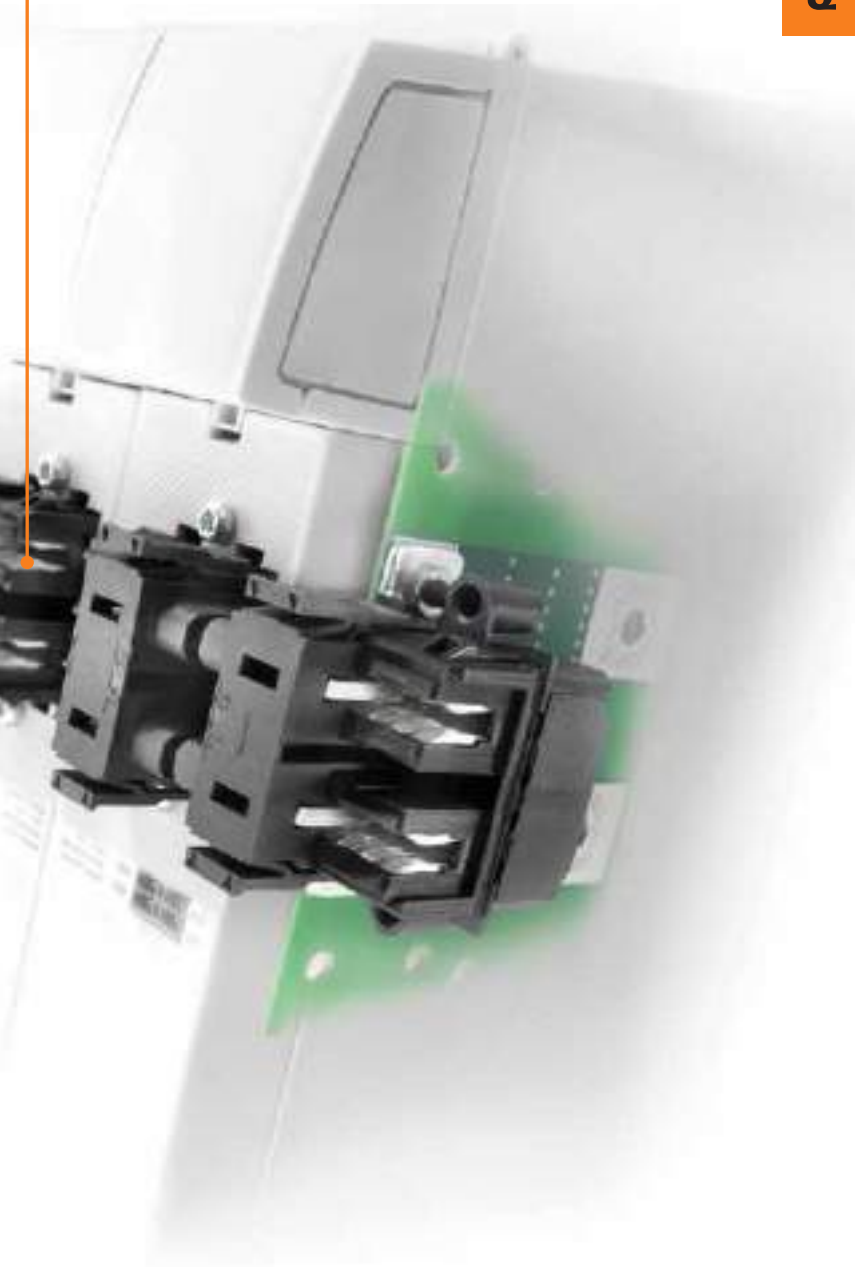
**Quick and easy installation**

The simple plug-and-play solution is ideal for the fast, tool-free replacement of individual modules from a network of multi-axis servo drives.



**Simple device integration**

The use of already registered UL components promotes approval. Besides, development becomes superfluous, the project lead time shortens, and unnecessary investments decline significantly.





BUS connection system 160 A



Modular current bar solution from Weidmüller. Optimally designed for use in IP20 multi-axis servo amplifiers for the intermediate circuit and the 24 V control voltage supply. The busbar system is designed in such a way that each module in the same axis system is quickly and easily connected to a spring contact by snapping a current bar into place. No tools are required for the innovative snap-in bus system. This simplifies assembly and installation.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>160</b>	<b>140</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6

UL 508

<b>Rated voltage</b>	<b>V</b>	<b>750</b>
<b>Rated current</b>	<b>A</b>	<b>160</b>

CSA (Use Group)

Rated voltage	
Rated current	

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Copper alloy
Material of contact surface	silver-plated
Pin dimensions = d	mm
Solder eyelet Ø = D	
Solder eyelet Ø tolerance	mm

Product data

IEC: 1000 V / 160 A  
UL: 750 V / 160 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

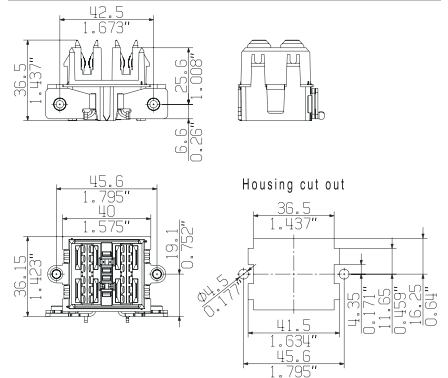
Note:

- Additional colours on request
- IEC-rated current is based on 20 °C ambiente temperature, further values see derating curve
- UL508-rated current based on 65 °C ambiente temperature and max. 20 devices
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70 %, 36 months

PB-CON 160



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Cover		Order No.
	PB-ENDCAP 160 02RF BK BX	2594970000
<b>Coding</b>		
	PB-CO RD	2654620000
<b>Mounting screw</b>		
	PB-CON IKSC M4X8 A2	2708610000
	PB-CON SF DELTA PT 40X12	2708620000

Ordering data

<b>Solder pin length</b>			
<b>Colour</b>		<b>black</b>	
<b>Pitch</b>	<b>42.50 mm</b>		
<b>L1</b>	<b>Qty.</b>	<b>Order No.</b>	
	20	2594720000	

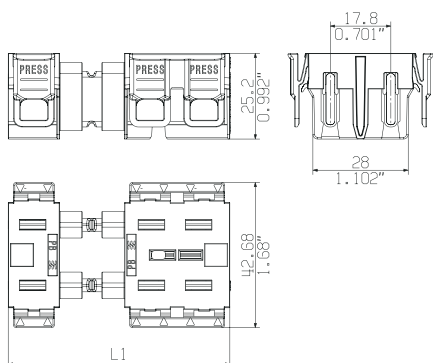
**PB-FEED 160**



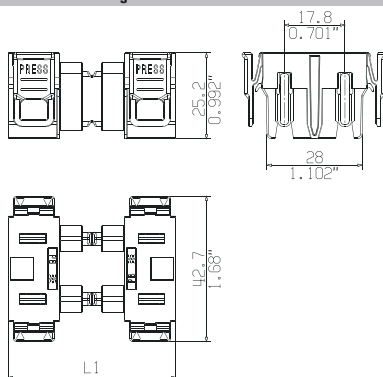
**PB-LINK 160**



Dimensioned drawing



Dimensioned drawing



**Ordering data**

Solder pin length		
Colour	black	
Pitch	42.50 mm	
L1	Qty.	Order No.
50	20	2594950000
100	10	2595180000

**Ordering data**

Solder pin length		
Colour	black	
Pitch	42.50 mm	
L1	Qty.	Order No.
50	20	2595540000
100	10	2594960000



# OMNIMATE® Power Through-Panel Terminals

**OMNIMATE® Power  
Through-Panel Terminals**

Through-Panel Terminals for devices  
Series PGK 4 and WGK

Explanation	R.2
System overview	R.6
Quick selection	R.8

Through-Panel Terminals for devices  
Series PGK 4 – PUSH IN connection

Product selection	
- Max. clamping range 4 mm <sup>2</sup>	R.10

Through-Panel Terminals for devices  
Series WGK – connects up to 95 mm<sup>2</sup>

Product selection	
- Max. clamping range 6 mm <sup>2</sup>	R.12
- Max. clamping range 10 mm <sup>2</sup>	R.14
- Max. clamping range 16 mm <sup>2</sup>	R.16
- Max. clamping range 25 mm <sup>2</sup>	R.18
- Max. clamping range 35 mm <sup>2</sup>	R.20
- Max. clamping range 50 mm <sup>2</sup>	R.22
- Max. clamping range 95 mm <sup>2</sup>	R.24

# OMNIMATE® – PUSH IN PGK 4 through-panel terminal

## Comfortable, cost-saving installation and connection of conductors up to 4 mm<sup>2</sup>

**In your applications space is limited. Save space and time for your housing feedthrough with our flexible connection system.**

You are looking for a space-saving solution to quickly install wire connections for your device with panel or housing feed-throughs.

You'll find what you are looking for with our innovative PUSH IN connectivity technology solutions. Our PGK 4 feed-through terminal is worthy of note for its tool-free wire connection on the interior and exterior of your device. Thanks to its flexible, sliced construction and the intuitive fastening mechanism, it's easy for you to build blocks with plenty of poles.

With such features, our PGK 4 is currently the most compact and fastest solution for housing feedthroughs.

### Flexible application options

Due to its construction with only 5.1 mm wide slices, you can build simple, space-saving terminal blocks with plenty of poles.



### Clear marking

The terminals can be clearly labelled on the top and bottom, so that the terminal block can always be marked regardless of mounting position.

### Simple handling and reduced assembly costs

Enjoy the benefits of the intuitive fastening mechanism and the ability to fasten the terminal block in the housing cut-out in seconds.



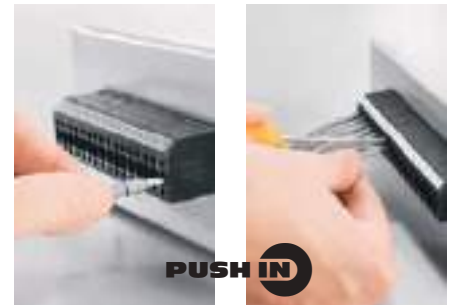
**Secure attachment through thick and thin**

The innovative terminal block fixing mechanism ensures a safe and reliable hold for the device feedthrough and is suited to panel thicknesses between 1.50 mm and 3.00 mm.



**Solid contact with a large connection cross-section**

Our innovative PUSH IN connection technology allows users to quickly and conveniently connect conductors. It also meets the need for permanent and vibration-resistant contacts. Conductor connections with a cross-section of up to 4.0 mm<sup>2</sup> with ferrules are possible.



R

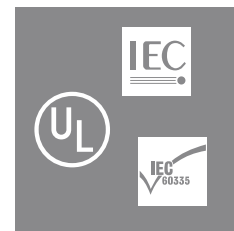
**Available for testing at any time**

You can perform a simple function check at any time using the easily accessible diagnostic test points.



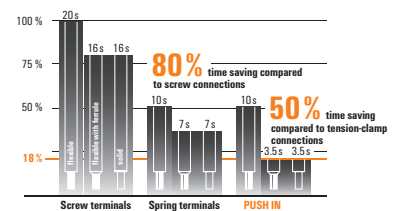
**Future-proofed materials and approvals**

Halogen-free materials and additional international approvals increase the application options for new device designs.



**Direct connected**

PUSH IN the quick, tool-free, intuitive connection mechanism for prepared wires. [www.push-in.com](http://www.push-in.com)



# Through-Panel Terminals

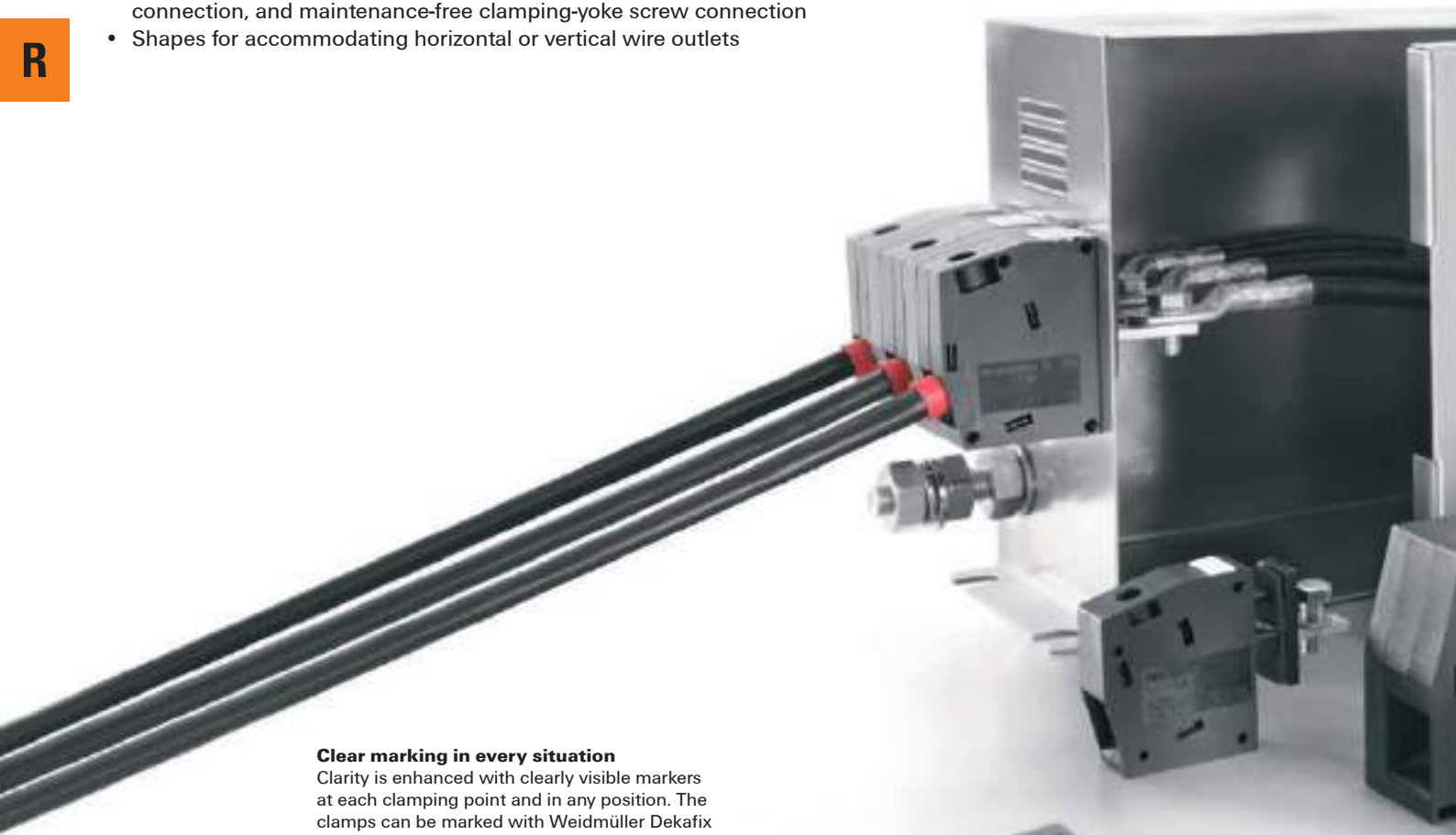
## WGK – OMNIMATE® Power

The universal solution to feed power through housing walls. Suitable for applications such as EMC filters, discretely structured converters for drive engineering, encapsulated equipment or inverters in the production of renewable energy.

Choose from the flexible range:

- Wide performance spectrum for currents up to 232 A and wire cross sections from 4 to 95 mm<sup>2</sup> (AWG 4/0)
- Various types of connections: castable solder connection, cable-lug-stud connection, and maintenance-free clamping-yoke screw connection
- Shapes for accommodating horizontal or vertical wire outlets

R



### Clear marking in every situation

Clarity is enhanced with clearly visible markers at each clamping point and in any position. The clamps can be marked with Weidmüller Dekafix markers and flexible paster tabs.





#### Safety with extra power

The high-performance insulating material WEMID meets maximum system availability requirements: With an RTI (relative temperature index) of 120 °C, the OMNIMATE® power Through-Panel Terminals exceed the highest continued use temperature of standard PA (100 °C) at +20° K, thus creating more power reserves and maximum safety with temperature fluctuations and overloads



#### Easy handling

WGK series lead-through terminals consist of an inside and outside component that are easily locked with one another through the housing wall without any tools.



#### Solid and proven connection

Connections proven a million times. The terminal unit consists of hardened steel, for very high contact force. The current bar is made of copper, which gives a low voltage drop. The tin-plated surface ensures minimum contact resistances.





## WGK series – System overview

### WGK



#### Easy installation

WGK series feedthrough terminals consist of an inside and outside component that are easily locked with one another through the housing wall without any tools.



### VWGK



#### Maximum freedom of design

Different types of connection on the inside such as a castable soldering connection (VWGK...), cable lug bolt connection (WGK ...VP) and a no-service clamping yoke-screw connection (WGK...) provide the optimum connection in any installation situation.

### WGK...VP



### WGK...WGKV



Weidmüller offers two models with a horizontal (WGK) and vertical (WGKV) outgoing direction to adapt the conductor guide to the given installation conditions.

The VP and VWGK models of the WGK lead-through terminals with an insulating housing and clamping yoke connection on the outside are enhanced for use in encapsulated and cast equipment (such as EMV filters).

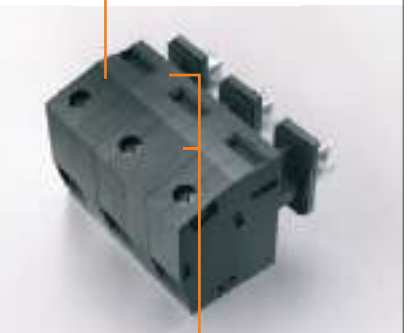
These products are developed for 100 % sealing in completely cast units.



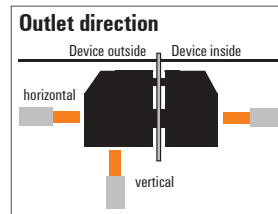
All Through-Panel Terminals terminals are available with pins (WGK.../Z) for easy locking. Multi-pole blocks can be built up quickly and easily.

Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.

Distance plates (DP WGK...) can be easily mounted with locking pins.



<http://www.OMNIMATE.net>



### Through-Panel terminals - WGK

Device Outside	Device Inside	Clamping range IEC Clamping range UL	Max. rated voltage IEC Nominal current UL	Type	Outlet direction	
 <b>PUSH IN</b>	 <b>PUSH IN</b>	0.5 - 4 mm <sup>2</sup> 24 - 10 AWG	32 A 30 A	 PGK 4	horizontal	
 <b>Screw Clamping yoke</b>	 <b>Solder connection</b>	0.5 - 6 mm <sup>2</sup> 30 - 10 AWG	32 A 30 A	 VWGK 4	horizontal	
		0.5 - 10 mm <sup>2</sup> 22 - 8 AWG	41 A 50 A	 VWGK 6	horizontal	
	 <b>Screw Clamping yoke</b>	0.5 - 6 mm <sup>2</sup> 30 - 10 AWG	32 A 30 A	 WGK 4 WGKV 4	horizontal vertical	
		0.5 - 16 mm <sup>2</sup> 24 - 6 AWG	57 A 65 A	 WGK 10 WGKV 10	horizontal vertical	
	 <b>Screw Clamping yoke</b>	 <b>Cable lug</b>	0.5 - 25 mm <sup>2</sup> 20 - 4 AWG	76 A 85 A	 WGK 16 WGKV 16	horizontal vertical
					 WGK 16 VP	horizontal
	 <b>Screw Clamping yoke</b>	 <b>Cable lug</b>	6 - 35 mm <sup>2</sup> 10 - 3 AWG	101 A 100 A	 WGK 25 WGKV 25	horizontal vertical
					 WGK 25 VP	horizontal
	 <b>Screw Clamping yoke</b>	 <b>Cable lug</b>	16 - 50 mm <sup>2</sup> 6 - 1/0 AWG	150 A 145 A	 WGK 50	horizontal
					 WGK 50 VP	horizontal
	 <b>Screw Clamping yoke</b>	 <b>Cable lug</b>	35 - 95 mm <sup>2</sup> 4 - 4/0 AWG	232 A 230 A	 WGK 95	horizontal
					 WGK 95 F VP	horizontal

Max. rated voltage IEC	400 V	500 V	690 V	1,000 V
	300 V		600 V	
Nominal voltage UL				
		○		
		○		
		○		
	○			
		○		
			○	
			○	
			○	
			○	
				○
				○

## Feed-through terminals for devices PGK series – PUSH IN connection

max. clamping range: 4 mm<sup>2</sup>



The PGK 4 device feed-through terminal is the fastest and most compact solution for feed-throughs in housings.

The innovative PUSH IN connection system from Weidmüller makes for a simple, tool-free wire connection on the inside and outside of devices. The sliced design and an intuitive fastening mechanism enable high-density blocks to be constructed quickly and easily.

### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.5...4
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...4</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...4
Flexible with ferrule	mm <sup>2</sup>	0.5...4
Ferrule with plastic collar	mm <sup>2</sup>	0.5...2.5
Stripping length	mm	12
Screwdriver blade	mm	0.4 x 2.5

According to norm

Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>32</b>	
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	4	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>		<b>500</b>	
Rated impulse voltage		6	

#### UL / CUL (Use Group)

	V	B	C	D
<b>Rated voltage</b>	<b>300</b>	<b>150</b>	<b>300</b>	
<b>Rated current</b>	<b>A</b>	<b>30</b>	<b>30</b>	<b>30</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>		
<b>CSA (Use Group)</b>				
	V	B	C	D
Rated voltage	300	150	300	
Rated current	A	30	30	30
AWG conductor	AWG	24-10		

#### General data

Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

### Product data

IEC: 500 V / 32 A / 0.5 - 4 mm<sup>2</sup>  
UL: 300 V / 30 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

#### Note:

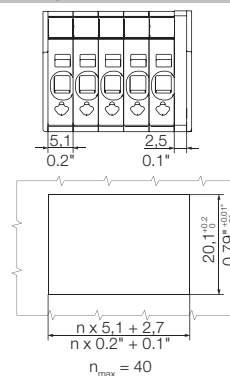
- Packing unit incl. 30 locking elements (VREL PGK 4 OR - 1288610000)
- End plate required
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### PGK 4

#### PUSH IN connection



#### Dimensioned drawing



### Accessories

Note: Refer to the Accessories chapter for additional accessories.

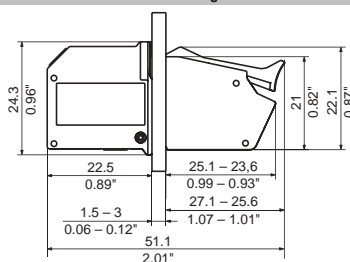
Additional locking		Order No.
	VREL PGK4 OR VPE 30	<b>1288610000</b>
Testing / Checking		
	PS 2.3 RT	<b>0180400000</b>
Screwdriver		
	SDS 0.4X2.5X75	<b>2749320000</b>
	SDS 0.5X3.0X80	<b>2749330000</b>
Pressing tool		
	PZ 6/5	<b>9011460000</b>

### Ordering data

Type	Qty.	Order No.
PGK 4 BK	100	<b>1288470000</b>

**With lock pins**

### Representative dimensional drawing

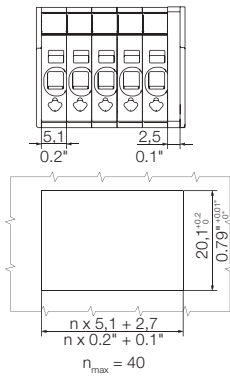


**PGK 4 BT**

**PUSH IN connection**



Dimensioned drawing



**Ordering data**

			With lock pins
Type	Qty.	Order No.	
PGK 4 BT BK	100	1288590000	

**EPL PGK 4**



Dimensioned drawing

**Ordering data**

			With lock pins
Type	Qty.	Order No.	
EPL PGK4 BK	50	1288600000	

R

## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 6 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside such as solder connections which can be encapsulated (VWGK...), cable lug connections (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) with vertical and horizontal wire insertion provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 500 V / 32 A / 0.5 - 6 mm<sup>2</sup>  
UL: 300 V / 30 A / AWG 30 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

#### Note:

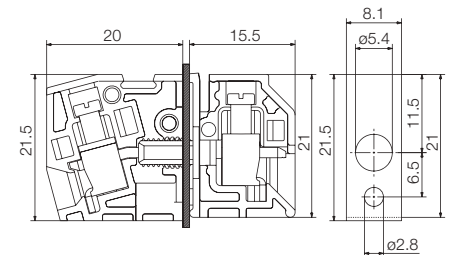
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V
- WGKV: Rated voltage plastic walls: 1 - 4 mm = 400 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V
- VWGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 4 mm = 500 V
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### WGK 4

#### Screw connection



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.5...6
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...4
Flexible with ferrule	mm <sup>2</sup>	0.5...4
Ferrule with plastic collar		
Stripping length	mm	8
Screwdriver blade	mm	0.6 x 3.5
According to norm		
Tightening torque range	Nm	0.6...0.8
<b>Rated current, max.</b>	<b>A</b>	<b>32</b>
At ambient temperature	20°C	40°C
For conductor cross-section	mm <sup>2</sup>	4
Overvoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>		<b>500</b>
Rated impulse voltage		6

UL / CUL (Use Group)	B	C	D	
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>30</b>	<b>30</b>	<b>10</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>30-10</b>		
CSA (Use Group)	B	C	D	
Rated voltage	V	300	300	300
Rated current	A	30	30	10
AWG conductor	AWG	30-10		

#### General data

Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	
Solder eyelet Ø tolerance	mm

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate		Order No.
	DP WGK 4 BK BX	1297840000
	DP WGK 4 GY BX	1936450000
	DP VWGK 4 BK BX	1251030000
	DP VWGK 4 GY BX	1936430000
Screwdriver		
	SDIS 0.6X3.5X100	2749810000
Marking tags		
	DEK 5/8 MC NE WS	1856740000
	DEK 5/5 MC NE WS	1609801044
	DEK 5/6 MC NE WS	1609820000

### Ordering data

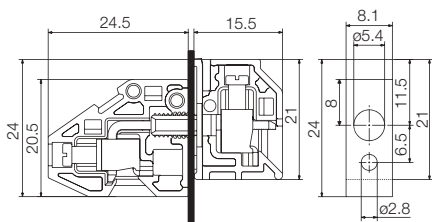
Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 4/Z BK BX	50	1250940000	
WGK 4/Z GN/YE BX	50	1936560000	
WGK 4/Z GY BX	50	1936570000	
WGK 4 BK BX	50		1250930000
WGK 4 GN/YE BX	50		1936540000
WGK 4 GY BX	50		1936550000

### WGKV 4

Screw connection



Dimensioned drawing



#### Ordering data

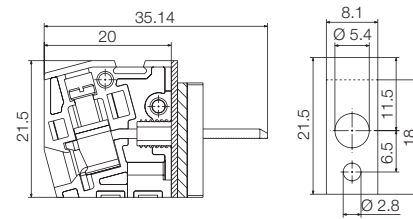
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGKV 4/Z BK BX	50	1250960000			
WGKV 4/Z GN/YE BX	50	1936620000			
WGKV 4/Z GY BX	50	1936630000			
WGKV 4 BK BX	50		1250950000		
WGKV 4 GN/YE BX	50		1936610000		
WGKV 4 GY BX	50		1934050000		

### WGK 4 VP

Solder connection



Dimensioned drawing



#### Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 4 VP/Z GN/YE BX	50	1003900000			
WGK 4 VP/Z GY BX	50	1003910000			
WGK 4 VP GN/YE BX	50		1003890000		
WGK 4 VP GY BX	50		1981890000		

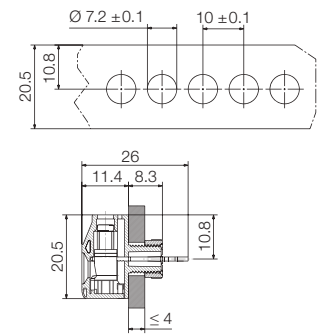
For the rated voltage of plastic and metal walls, see the "WGK" notes

### VWGK 4

Solder connection



Dimensioned drawing



#### Ordering data

Type	Qty.	With lock pins	
		Order No.	Order No.
VWGK 4 BK BX	50	1250650000	
VWGK 4 GN/YE BX	50	1936480000	
VWGK 4 GY BX	50	1936490000	



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 10 mm<sup>2</sup>



The V versions of the WGK feed-through terminals with an insulated housing and clamping yoke connection on the outside, and a solder connection on the inside. Optimal connection options for use in encapsulated devices (e.g. EMC filters and/or fully insulated transformers).

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 500 V / 41 A / 0.5 - 10 mm<sup>2</sup>  
UL: 300 V / 50 A / AWG 22 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

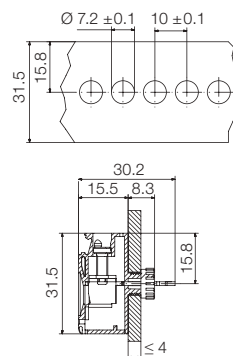
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- VWGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 4 mm = 500 V
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### VWGK 6



#### Dimensioned drawing



### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...6	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar			
Stripping length	mm	13	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range	Nm	0.8...1.8	
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>		<b>500</b>	
Rated impulse voltage		6	
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>300 300 300</b>	
<b>Rated current</b>	<b>A</b>	<b>50 50 10</b>	
<b>AWG conductor</b>	<b>AWG</b>	<b>22-10</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	300 300 300	
Rated current	A	50 50 10	
AWG conductor	AWG	22-10	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate		Order No.
	DP VWGK 6 BK BX	1250630000
	DP VWGK 6 GY BX	1965750000
Screwdriver		
	SDIS 0.8X4.0X100	2749820000
Marking tags		
	DEK 5/5 MC NE WS	1609801044
	DEK 5/6 MC NE WS	1609820000
	DEK 5/8 MC NE WS	1856740000

### Ordering data

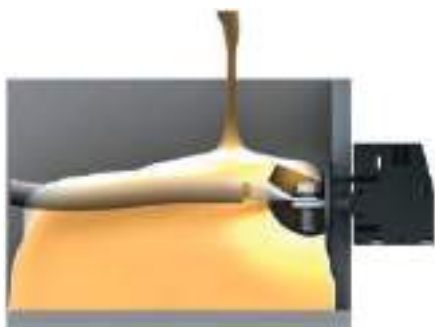
No lock pins		
Type	Qty.	Order No.
VWGK 6 BK BX	50	2484810000
VWGK 6 GN/YE BX	50	2484680000
VWGK 6 GY BX	50	2484800000

## Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications.

These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



## Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today.

Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection.

When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved.

Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 16 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Different types of connection on the inside, such as a solder connection which can be encapsulated (WGK...VP) or a maintenance-free clamping yoke screw connection (WGK...) with vertical and horizontal wire connections, provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 500 V / 57 A / 0.5 - 16 mm<sup>2</sup>  
UL: 300 V / 65 A / AWG 24 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

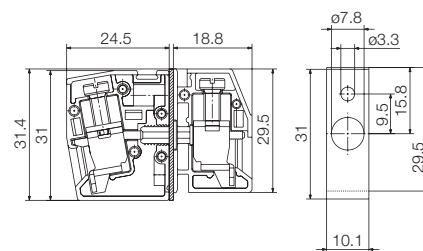
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### WGK 10



#### Dimensioned drawing



### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.5...10	
Ferrule with plastic collar			
Stripping length	mm	11	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range	Nm	1.2...2.4	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	10	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>		<b>500</b>	
Rated impulse voltage		6	
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>65</b>	<b>65</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	300	300
Rated current	A	65	65
AWG conductor	AWG	24-6	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP VWGK 6 BK BX	1250630000
DP VWGK 6 GY BX	1965750000
DP WGK 10 BK BX	
DP WGK 10 GY BX	
DP WGKV 10	
Screwdriver	Order No.
SDIS 0.8X4.0X100	2749820000
Marking tags	Order No.
DEK 5/5 MC NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

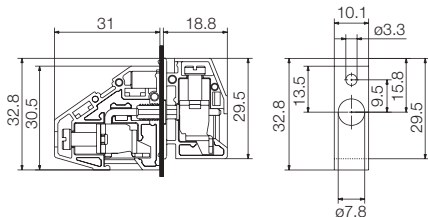
### Ordering data

Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 10/Z BK BX	50	2439460000	
WGK 10/Z GN/YE BX	50	2439400000	
WGK 10/Z GY BX	50	2439410000	
WGK 10 BK BX	50		2439470000
WGK 10 GN/YE BX	50		2439380000
WGK 10 GY BX	50		2439390000

## WGKV 10



Dimensioned drawing



### Ordering data

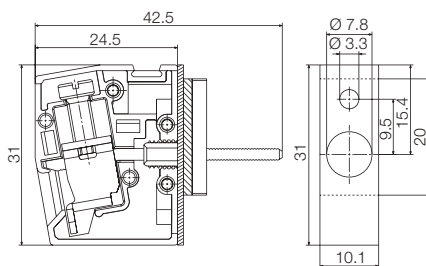
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGKV 10/Z BK BX	50	2439580000			
WGKV 10/Z GN/YE BX	50	2439540000			
WGKV 10/Z GY BX	50	2439550000			
WGKV 10 BK BX	50		2439570000		
WGKV 10 GN/YE BX	50		2439530000		
WGKV 10 GY BX	50		2439520000		

For the rated voltage of plastic and metal walls, see the "WGK" notes

## WGK 10 VP



Dimensioned drawing



### Ordering data

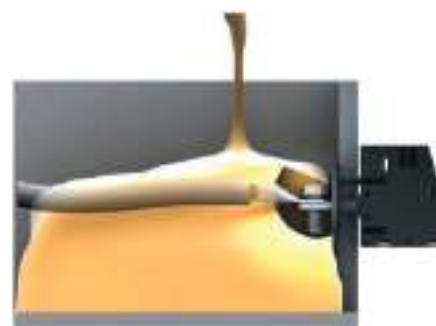
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 10 VP/Z GN/YE BX	50	2439440000			
WGK 10 VP/Z GY BX	50	2439420000			
WGK 10 VP GN/YE BX	50		2439430000		
WGK 10 VP GY BX	50		2439450000		

For the rated voltage of plastic and metal walls, see the "WGK" notes

## Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



### Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today.

Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved. Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 25 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) with vertical and horizontal wire insertion provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 500 V / 76 A / 0.5 - 25 mm<sup>2</sup>  
UL: 600 V / 85 A / AWG 20 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

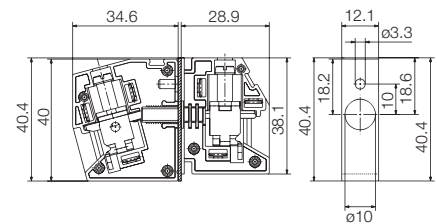
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### WGK 16



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.5...25
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>
Stranded H07 V-R	mm <sup>2</sup>	10...25
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16
Flexible with ferrule	mm <sup>2</sup>	0.5...16
Ferrule with plastic collar		
Stripping length	mm	16
Screwdriver blade	mm	1.0 x 5.5
According to norm		
Tightening torque range	Nm	2...2.3
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>
At ambient temperature	20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16
Overvoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>		<b>500</b>
Rated impulse voltage		6

#### UL / CUL (Use Group)

	B	C	D
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>85</b>	<b>85</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-4</b>	

#### CSA (Use Group)

	B	C	D
Rated voltage	V	600	600
Rated current	A	85	85
AWG conductor	AWG	20-4	

#### General data

Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP WGK 16 BK BX	1250580000
DP WGK 16 GY BX	1936700000

Screwdriver	Order No.
SDIS 1.0X5.5X125	2749850000

Marking tags	Order No.
DEK 5/5 MC NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

### Ordering data

Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 16/Z BK BX	50	2440600000	
WGK 16/Z GN/YE BX	50	2440570000	
WGK 16/Z GY BX	50	2440580000	
WGK 16 BK BX	50		2440590000
WGK 16 GN/YE BX	50		2439600000
WGK 16 GY BX	50		2440560000



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 35 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) with vertical and horizontal wire insertion provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 690 V / 101 A / 6 - 35 mm<sup>2</sup>  
UL: 600 V / 100 A / AWG 10 - 3



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

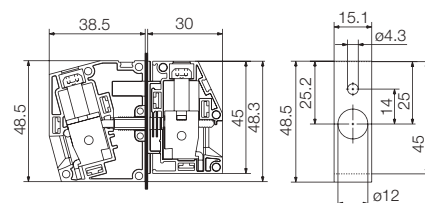
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGKV: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGK...VP: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V
- Wire-end ferrules are mandatory for stranded wires with more than 19 strands.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### WGK 25



Dimensioned drawing



### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	4...35	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>6...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...35	
Flexible H05(07) V-K	mm <sup>2</sup>	6...16	
Flexible with ferrule	mm <sup>2</sup>	4...25	
Ferrule with plastic collar			
Stripping length	mm	18	
Screwdriver blade	mm	1.2 x 6.5	
According to norm			
Tightening torque range	Nm	4...4.5	
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	25	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>		<b>690</b>	
Rated impulse voltage		6	
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>100</b>	<b>100</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>10-3</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600
Rated current	A	100	100
AWG conductor	AWG	10-3	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate		Order No.
	DP WGK 25 BK BX	1250590000
	DP WGK 25 GY BX	1936710000
Screwdriver		
	SDIS 1.2X6.5X150	2749860000
Marking tags		
	DEK 5/5 MC NE WS	1609801044
	DEK 5/6 MC NE WS	1609820000
	DEK 5/8 MC NE WS	1856740000

### Ordering data

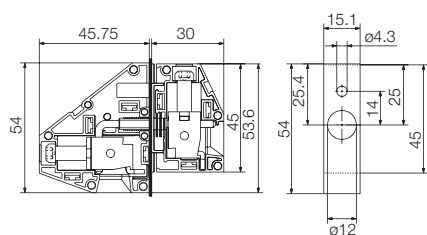
Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 25/Z BK BX	50	2444680000	
WGK 25/Z GN/YE BX	50	2444640000	
WGK 25/Z GY BX	50	2444300000	
WGK 25 BK BX	50		2444670000
WGK 25 GN/YE BX	50		2444650000
WGK 25 GY BX	50		2444660000



## WGKV 25



Dimensioned drawing



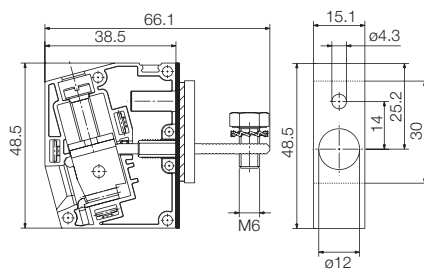
### Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGKV 25/Z BK BX	25	2444870000			
WGKV 25/Z GN/YE BX	25	2444810000			
WGKV 25/Z GY BX	25	2444860000			
WGKV 25 BK BX	25		2444840000		
WGKV 25 GN/YE BX	25		2444830000		
WGKV 25 GY BX	25		2444820000		

## WGK 25 VP



Dimensioned drawing



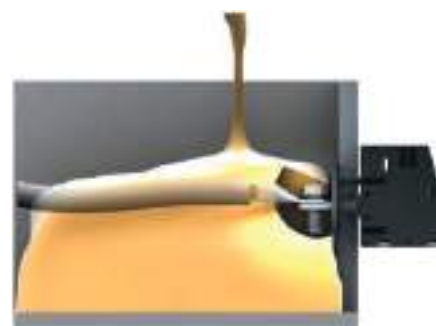
### Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 25 VP/Z BK BX	50	2444790000			
WGK 25 VP/Z GN/YE BX	50	2444720000			
WGK 25 VP/Z GY BX	50	2444730000			
WGK 25 VP BK BX	50		2444800000		
WGK 25 VP GN/YE BX	50		2444700000		
WGK 25 VP GY BX	50		2444710000		

## Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



### Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today.

Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved. Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



Rated voltage for plastic and metal walls such as WGK



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 50 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 690 V / 150 A / 16 - 50 mm<sup>2</sup>  
UL: 600 V / 150 A / AWG 6 - 1/0



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

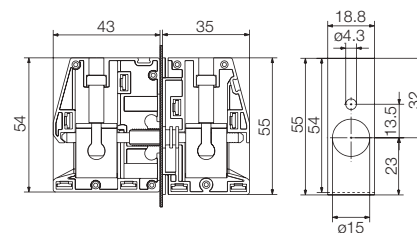
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 6 mm = 690 V
- Wire-end ferrules are mandatory for stranded wires with more than 19 strands.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### WGK 50



#### Dimensioned drawing



### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	10...50	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>16...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	16...50	
Flexible H05(07) V-K	mm <sup>2</sup>	16...50	
Flexible with ferrule	mm <sup>2</sup>	10...50	
Ferrule with plastic collar			
Stripping length	mm	24	
Screwdriver blade	mm	1.2 x 6.5	
According to norm			
Tightening torque range	Nm	4...5.5	
<b>Rated current, max.</b>	<b>A</b>	<b>150</b>	
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	50	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>		<b>690</b>	
Rated impulse voltage		6	
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>150</b>	<b>150</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>6-1/0</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600
Rated current	A	150	150
AWG conductor	AWG	6-1/0	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate		Order No.
	DP WGK 50 BK BX	1250610000
	DP WGK 50	1937030000
Screwdriver		
	SDIS 1.2X6.5X150	2749860000
Marking tags		
	DEK 5/5 MC NE WS	1609801044
	DEK 5/6 MC NE WS	1609820000
	DEK 5/8 MC NE WS	1856740000

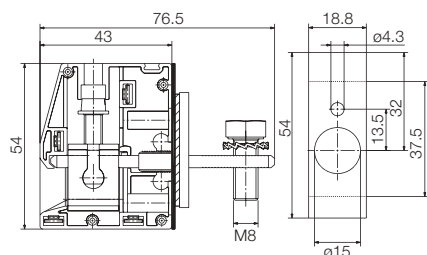
### Ordering data

Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 50/Z BK BX	10	2427690000	
WGK 50/Z GN/YE BX	10	2427810000	
WGK 50/Z GY BX	10	2427650000	
WGK 50 BK BX	10		2427680000
WGK 50 GN/YE BX	10		2427660000
WGK 50 GY BX	10		2427640000

## WGK 50 VP



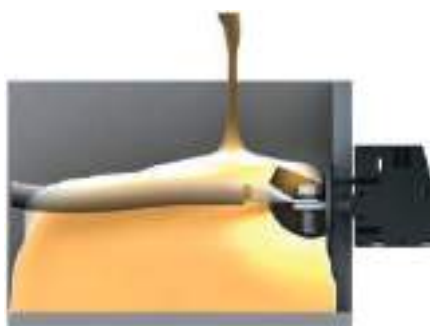
Dimensioned drawing



## Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



## Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 50 VP/Z BK BX	10	2428450000			
WGK 50 VP/Z GY BX	10	2428300000			
WGK 50 VP/Z GN/YE BX	10	2428290000			
WGK 50 VP BK BX	10		2428440000		
WGK 50 VP GN/YE BX	10		2428270000		
WGK 50 VP GY BX	10		2428280000		

## Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today.

Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection.

When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved.

Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.

For the rated voltage of plastic and metal walls, see the "WGK" notes



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 95 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 1000 V / 232 A  
UL: 600 V / 255 A / AWG 4 - kcmil 250



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

#### Note:

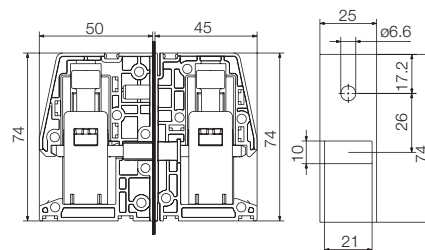
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1-6 mm = 1000 V; metal walls: < 1 mm = 1000 V; metal walls: 1-3.5 mm = 800 V; metal walls: 3.5-5.5 mm = 690 V
- Wire-end ferrules are mandatory for stranded wires with more than 19 strands.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### WGK 95

#### Screw connection



#### Dimensioned drawing



### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	35...95	
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R	mm <sup>2</sup>	35...95	
Flexible H05(07) V-K	mm <sup>2</sup>	35...95	
Flexible with ferrule	mm <sup>2</sup>	35...95	
Ferrule with plastic collar			
Stripping length	mm	27	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm	15...20	
<b>Rated current, max.</b>	<b>A</b>	<b>232</b>	
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	95	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>		<b>1000</b>	
Rated impulse voltage		8	
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>255</b>	<b>255</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>4-kcmil 250</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600
Rated current	A	255	255
AWG conductor	AWG	4-kcmil 250	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP WGK 95 BK BX	<b>1250620000</b>
DP WGK 95 GY BX	<b>1937020000</b>
Marking tags	
DEK 5/5 MC NE WS	<b>1609801044</b>
DEK 5/6 MC NE WS	<b>1609820000</b>
DEK 5/8 MC NE WS	<b>1856740000</b>

### Ordering data

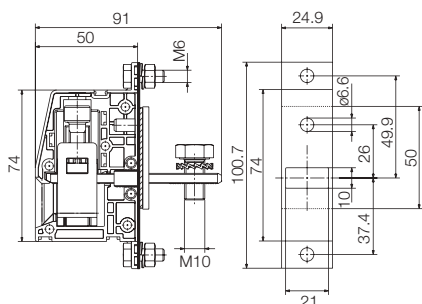
Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 95/Z BK BX	10	<b>1250690000</b>	
WGK 95/Z GN/YE BX	10	<b>1937390000</b>	
WGK 95/Z GY BX	10	<b>1937400000</b>	
WGK 95 BK BX	10		<b>1250680000</b>
WGK 95 GN/YE BX	10		<b>1937370000</b>
WGK 95 GY BX	10		<b>1937380000</b>

## WGK 95 F VP

### Cable lug connection



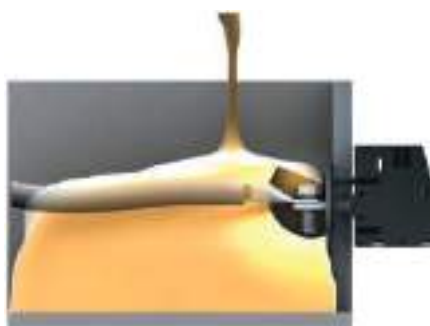
### Dimensioned drawing



### Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



### Ordering data

		With lock pins	No lock pins
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>	<b>Order No.</b>
WGK 95F VP/Z BK BX	10	1250670000	
WGK 95F VP/Z GN/YE BX	10	1937360000	
WGK 95F VP/Z GY BX	10	1937140000	
WGK 95F VP BK BX	10		1250660000
WGK 95F VP GN/YE BX	10		1937120000
WGK 95F VP GY BX	10		1937130000

### Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today. Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening. As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved. Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



For the rated voltage of plastic and metal walls, see the "WGK" notes



# OMNIMATE® Power Accessories

<b>OMNIMATE® Power Accessories</b>	Strain relief	S.2
	Shielding	S.3
	Coding elements / Anti-twist mechanism	S.4
	Screwdrivers	S.5
	Test plug	S.6

Strain relief

**BV/SV 7.62HP/02 ZE GR**

Strain relief



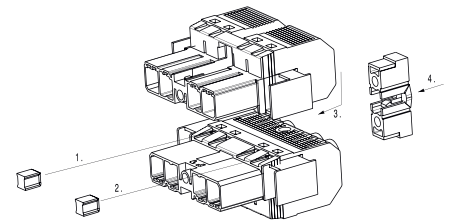
**BV/SV 7.62HP/04 ZE GR**

Strain relief



**SVF/BVF 7.62HP COUPLE SET**

Couple Set



**Ordering data**

Colour		Grey
Type	Qty.	Order No.
BV/SV 7.62HP/02 ZE GR		<b>1937550000</b>

**Ordering data**

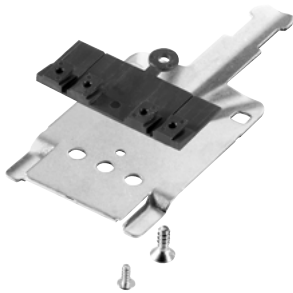
Colour		Grey
Type	Qty.	Order No.
BV/SV 7.62HP/04 ZE GR		<b>1937560000</b>

**Ordering data**

Colour		Grey
Type	Qty.	Order No.
SVF/BVF 7.62HP COUPLE SET		<b>1440850000</b>

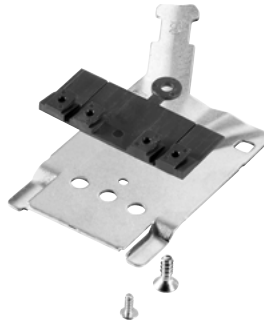
**BVF 7.62HP SH180 4-6 KIT**

Shield support



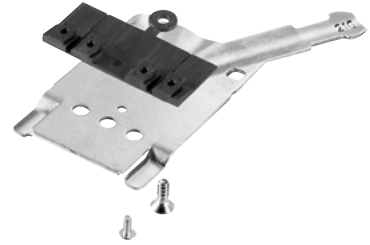
**BVF 7.62HP SH150 4-6 KIT**

Shield support



**BVF 7.62HP SH150 4-6 KIT**

Shield support



**Ordering data**

Colour		Grey
Type	Qty.	Order No.
BVF 7.62HP SH180 4-6 KIT		<b>1118470000</b>

**Ordering data**

Colour		Grey
Type	Qty.	Order No.
BVF 7.62HP SH150 4-6 KIT		<b>1118480000</b>

**Ordering data**

Colour		Grey
Type	Qty.	Order No.
BVF 7.62HP SH210 4-6 KIT		<b>1118490000</b>



**BV/SV 7.62 KO**

Coding element



**BV/SV 7.62 KO**

Anti-twist mechanism



**KO BU/SU 10.16HP BK**

Coding element



**Ordering data**

Typ	Qty.	Order No.
BV/SV 7.62HP KO	100	1937590000

**Ordering data**

Type	Qty.	Order No.
SV 7.62 VDS	1	1853940000

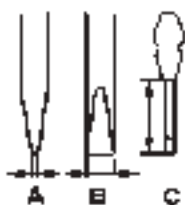
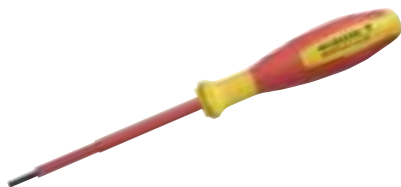
**Ordering data**

Type	Qty.	Order No.
KO BU/SU 10.16HP BK	1	1824410000



**SDI**

**VDE-insulated slotted screwdriver**



- VDE-insulated slotted screwdriver, SDI**
- SDI DIN 7437, ISO 2380/2
  - Drive output acc. to DIN EN ISO/IEC 60900 and DIN ISO 2380

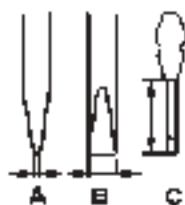


**Ordering data**

Type	Dims. (mm)	A	B	C	Order No.
SDI		0,4	2,5	75	2749790000
SDI		0,5	3,0	100	2749800000
SDI		0,6	3,5	100	2749810000
SDI		0,8	4,0	100	2749820000
SDI		1,0	4,5	125	2749830000
SDI		1,0	5,5	125	2749850000
SDI		1,2	6,5	150	2749860000
SDI		1,6	8,0	175	2749870000

**SD**

**Slotted screwdriver with round blade**



- Slotted screwdriver with round blade, SD**
- SD DIN 5265, DIN ISO 2380
  - Drive output acc. to DIN 5264, DIN ISO 2380/1
  - ChromTop tip

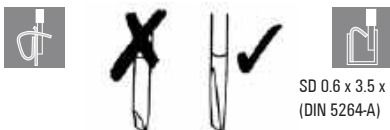


**Ordering data**

Type	Dims. (mm)	A	B	C	Order No.
SD		0,4	2,5	75	2749320000
SD		0,5	3,0	80	2749330000
SD		0,6	3,5	100	2749340000
SD		0,8	4,0	100	2749360000
SD		0,8	4,5	125	2749370000
SD		1,0	5,5	150	2749380000
SD		1,2	6,5	150	2749390000

**Tension clamp terminal tool**

**Tool for PCB terminals with tension clamp connection**



SD 0.6 x 3.5 x 100 (DIN 5264-A)

You do not need any special tool to connect or disconnect our tension clamp connection. The opening is designed to accommodate a standard 0.6 x 3.5 x 100 screwdriver 9008330000 to DIN 5264-A (with flat blade).

**SDK PH/PZ**

**Crosshead screwdriver**



- Crosshead screwdriver PH (Philips)**
- SDK PH DIN 5262, DIN ISO 8764-PH
  - Drive output acc. to DIN ISO 8764-PH
  - ChromTop tip



**Crosshead screwdriver PZ (Pozidrive)**

- SDK PZ DIN 5262, DIN ISO 8764-PZ
- Drive output acc. to DIN ISO 8764-PZ
- Chrome top tip



**Ordering data PH**

Type	Dims. (mm)	A	B	C	Order No.
SDK PH0	0			60	2749400000
SDK PH1	1			80	2749410000
SDK PH2	2			100	2749420000
SDK PH3	3			150	2749430000

**Ordering data PZ**

Type	Dims. (mm)	A	B	C	Order No.
SDK PZ1	1			80	2749440000
SDK PZ2	2			100	2749450000
SDK PZ3	3			150	2749460000

**Test plug****PS 2.0 MC****Test plug**

- For conductors up to 0.75 mm<sup>2</sup> (AWG 18).
- Gold-plated lantern-type contact.
- Conductor must be soldered to contact in test plug.

**Ordering data**

Typ	Wire cross-sections	Qty.	Order No.
PS 2.0 MC	≤ 0,75 mm <sup>2</sup>	20	<b>031000000</b>

# OMNIMATE® Housings

## Electronic housings

<b>OMNIMATE® Housings</b> <b>Electronic housings</b>	OMNIMATE® Housings		
		Explanation	T.2
		Orientation guide	T.4
<hr/>			
	CH20M modular housing series		
		Explanation	T.6
		Orientation guide	T.15
		Connection technology selection guide	T.18
		Product selection	T.20
<hr/>			
	MICROBOX / TERMINALBOX		
	Small housing series		
		Explanation	T.42
		Product selection	T.44
<hr/>			
	RS profile housing series		
		Explanation	T.46
		Orientation guide	T.48
		Product selection	T.50
<hr/>			
	Accessories		
		Mounting foot	T.56
		Identification systems	T.56
		Screwdrivers	T.57

# OMNIMATE® Housings

## Electronic housings

**The perfect platform for form and function – including terminal layouts, bulk products and “tailor-made suits straight off the rack”.**

Weidmüller’s electronics provide a state-of-the-art platform for electronics applications: for all design types and usage areas. The application and its requirements are the foundation for the housing design:

Modular housing using the standard pitch sizes are particularly well suited for standardised electrical cabinet applications.

Because of their excellent flexibility and variability, profile housings are the perfect solution for custom constructions and small-batch series.

The perfect blend of design, connection technology and functionality result in a design that is well tailored to market and application requirements.

### Flexibility

Profile housing – the perfect solution for custom constructions and smallbatch series.



### Reliability

Weidmüller’s legendary quality and well established, proven connection technology guarantee maximum availability for your systems.



**Innovation**

Attention to detail: with the integrated, captive "AutoSet" coding function.



**Efficiency**

Reduce costs and increase productivity: SMT/SMD connectors packed suitably for fully automated production.



**Modular housing for mounting on rail**

Modular housing: function, form and processing all contribute to a single cohesive unit that offers safety, manufacturing efficiency and usability.



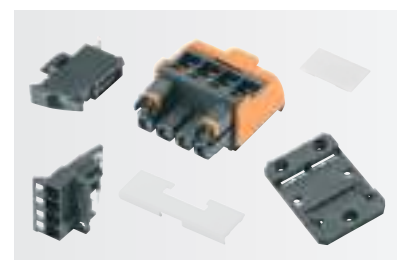
**Profile housing in profile shape**

Profile housing in profile shape - the flexible modular system of coloured and transparent plastic profiles and support modules provides the optimum balance between flexibility and efficiency.



**Accessories**

Comprehensive range of system accessories for integrating your assembled electronics "package" into the system environment - from attachment and connection to marking systems.



### Electronic housings

With 6 housing systems, Weidmüller's electronics housing portfolio offers a platform for electronic applications in any design and for all application areas.

Detailed design information and the most important product-related data is available on the respective product pages. Data sheets and CAD models are available online for download.




### CH20M – Modular Rail-mounted housing



System description (key points)
Scalability
Widths
Design
Type of assembly of the PCB
Application
Connection system
Number of conductors that can be connected
Number of slots for female plugs
Design options
Housing design
PCB layout
Labelling & marking
Standard housing colours (Other colours on request)
Additional features
optional (excerpt)
standard (excerpt)

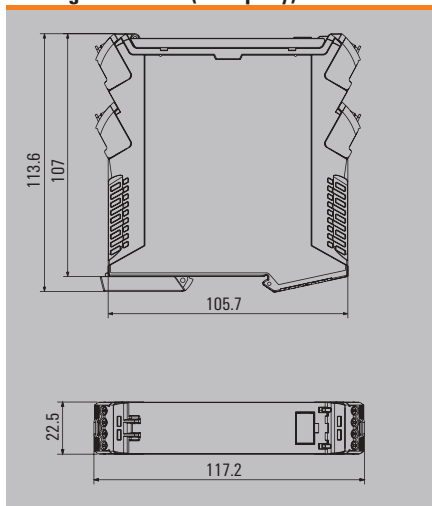
Component housing system IP 20
<ul style="list-style-type: none"> <li>• 7 housing widths from 6 to 67.5 mm:</li> <li>• 6,1 / 12,5 / 17,5 / 22,5 / 35<sup>1)</sup> / 45 / 67,5</li> <li>• Individually configurable</li> <li>• THR and THT assemblies</li> <li>• Optional connection of devices via mounting rail bus</li> </ul>
Connectors (touch-safe both sides)
<ul style="list-style-type: none"> <li>• 2 - 72</li> <li>• 1 - 18</li> </ul>
Individually configurable
<ul style="list-style-type: none"> <li>• Asymmetrical port configuration</li> <li>• Individual processing / modification</li> <li>• Large net layout space of up to 9000 mm<sup>2</sup></li> <li>• Up to 3 flexibly positioned PCBs</li> <li>• Both sides can be fitted with components</li> <li>• Pad &amp; laser printing</li> <li>• Device markers for female connector</li> <li>• Device markers for hinged cover</li> </ul>
Optional or standard
<ul style="list-style-type: none"> <li>• Integrated mounting rail bus</li> <li>• FE mounting rail contac</li> <li>• Preparation for SIM card insertion</li> <li>• Integrated, captive 16-fold "AutoSet" coding</li> <li>• Integrated release lever</li> <li>• Choice of PUSH-IN or clamping yoke connection</li> <li>• "Wire ready" and "wire guard" (protection against mis-inserting)</li> <li>• Transparent hinged cover, sealable</li> </ul>

### Legend of symbols

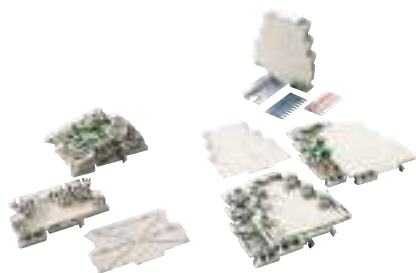
-  Clamping yoke screw connections
-  PUSH IN spring connection
-  Tension clamp connection

Note: 1) On request

### Housing dimensions (exemplary)



**MICROBOX – Small housing**  
**TERMINALBOX – Terminal housing**



**Small housing IP 20**

- MICROBOX: 6.1 mm
- TERMINALBOX: 6.0 mm
- Miniature plate housing
- Compact enclosure in terminal format
- E.g. for I/O-plate applications

**Connection terminals**

- 4 - 6
- 2 - 3



**2 versions**

- MICROBOX: closed
- TERMINALBOX: optionally with cover plate

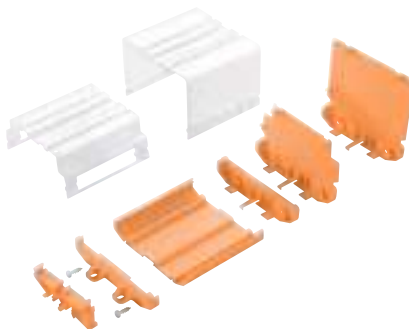
- Pad-print printing

- Black
- Pebble grey
- Grey beige
- Light blue

**Optional**

- Cross-connector 32 A

**RS 45-122 – Profile housing variable**



**Variable extruded profile case IP 20**

- Standard length 2 m, optionally cut to size
- Circuit boards 45 to 122 mm
- Precisely cut lengths
- Modules protected with a clear cover

**Female connectors or terminals**

- As needed
- 1 - 3



**Combinable and a perfect fit**

- See-through covers in 2 sizes
- End plates in 3 sizes
- Standard circuit cards (EURO format)
- Up to 2 PCBs stackable
- Double-sided installation
- Pad-print printing
- Standard connector markings
- Marking strips for the cover hood

- Black
- Orange
- Pebble grey
- Signal green

**Optional**

- Direct mounting

**RS 70 – Profile housing modular**



**Modular profile case IP 00**

- Individual elements, stackable modular
- Elements of 5 / 10 / 15 / 25 / 30 / 45 mm
- For 68 mm circuit boards
- Tool-free installation
- Sub-assembly accessible when opened

**Female connectors or terminals**

- As needed
- 1 - 3



**tool-free installation**

- 4 snap-on feet
- 5 different intermediate elements
- Standard circuit boards
- Double-sided installation

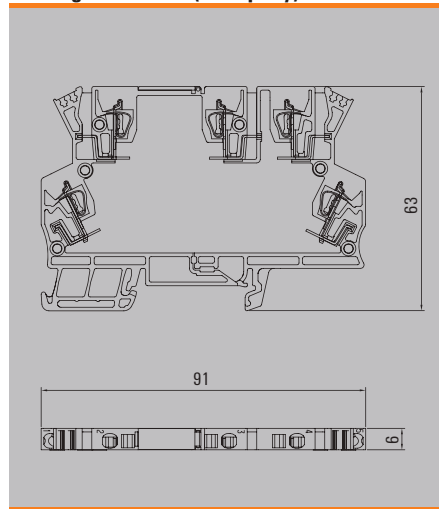
- Pad-print printing
- Standard connector markings

- Black
- Orange
- Grey beige

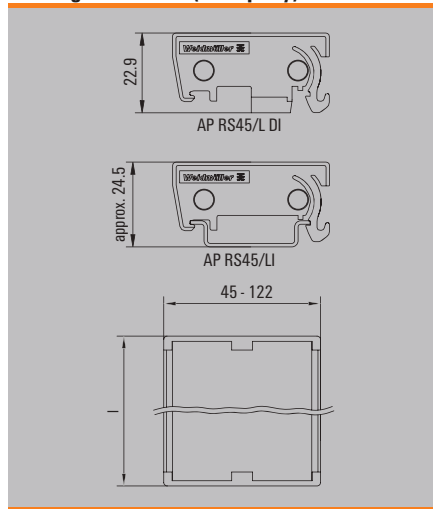
**Optional**

- Direct mounting

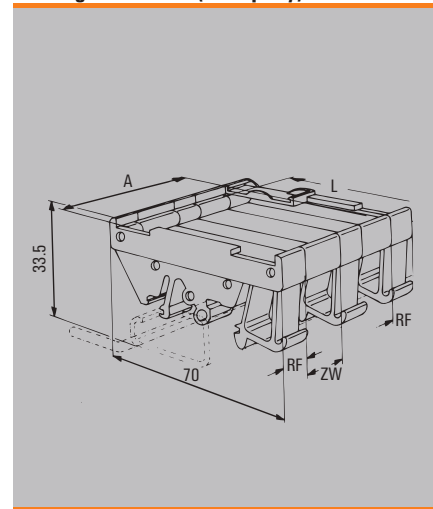
**Housing dimensions (exemplary)**



**Housing dimensions (exemplary)**



**Housing dimensions (exemplary)**





# Individual design by combining form, function and appearance

**CH20M (Component Housing IP 20 Modular) – Weidmüller’s new housing standard – represents the ideal platform for basing customised electronic applications.**

Like a “tailor-made suit straight off the rack”, the ground breaking module concept combines freedom in design with the low cost and planning security of a standard system.

In addition to scalability, a high level of safety and innovative functionality in the application, the system also convinces with superior attention to detail.

The results are quicker installation, user-friendly operation, high operational reliability and resistance to interference. From development to production, the CH20M represents efficiency. It covers all of the requirements for a modern electronics platform built with the future in mind.

## Designed configuration

As many connections as you require and as affordable as you need: scalable connection levels, up to 72 wire connections, individually configurable for each side with 1, 2 or 3 connection levels across all housing widths.



## Designed basic colours

With a focus on the important elements: the unobtrusive housing colours (black graphite, grey graphite and light grey) make a competent impression without distracting from the key operational and display elements.



OMNIMATE® Housings  
Electronic housings

T

**Designed printing**

Detailed symbols, data, graphics or text can be printed (with either laser or pad printing) on the large surface available on the housing element.



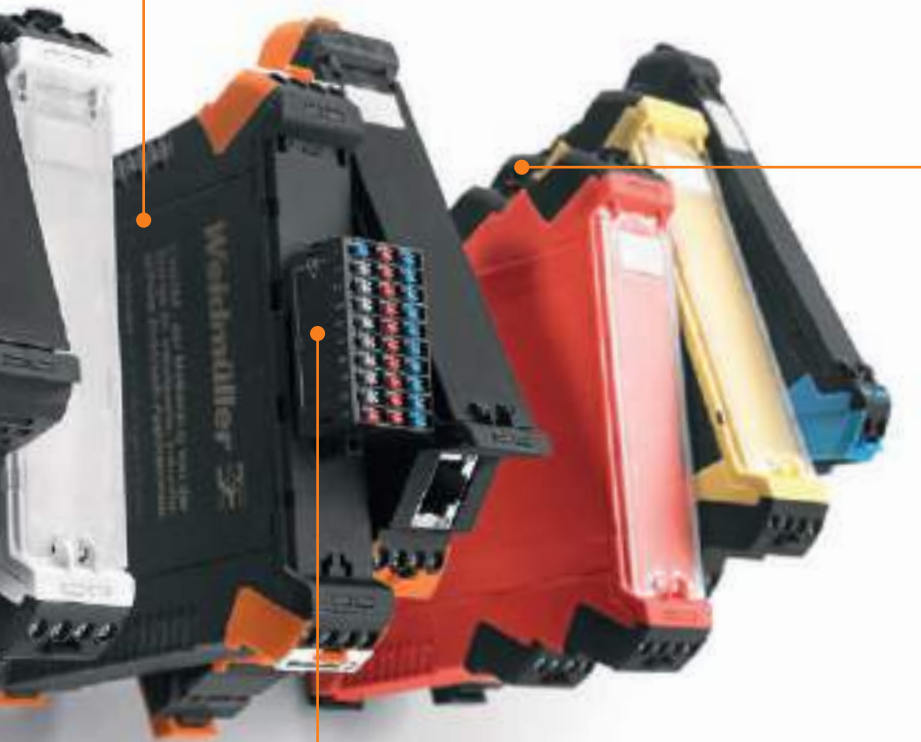
**Designed optical appearance**

The standard variants, with their modularity and variety, enable you to customise a wide range of designs to fit your application.



**Designed functionality**

Our comprehensive, standardised configuration variants can be further supplemented with modification and design changes to fit your custom needs.



**Designed modifications**

Modifying after the configuration: for example by integrating the pluggable 30-pole BL-I/O LED digital I/O connection level in the front or with the RJ45 socket on the side.



**Designed functional colours**

More operational confidence with functionally appropriate colour coding: three functional colours (red, yellow and blue coding) can be assigned to key industrial applications.



# Power, signals and data are provided, connected and distributed securely and consistently

This customer-friendly bus solution brings power, signals and data to the rail in a quick and reliable manner. When supplying, connecting or distributing within modular applications, the rail bus can replace the tedious individual wiring process with a flexible and uninterrupted system solution. As a result, the wiring overhead and the error rate are both reduced. Redundant functions within complex applications can be efficiently centralised or intelligently distributed.

The system bus is securely integrated within the 35 mm standard mounting rail. The SMD-bus contact block can be reflow-soldered so that it can be completely automatically processed during the component assembly. The resistant, gold-plated contact surfaces ensure a permanent and reliable contact for all housing widths.

### Scalability with no limits

Unique: The integrated connection solution covers all system widths: from the 6 mm slice to the 67 mm large-area housing.



### Easy to service during installation:

Quick: It's easy to replace a module, even in existing modules groups - without any influence on the neighbouring modules.



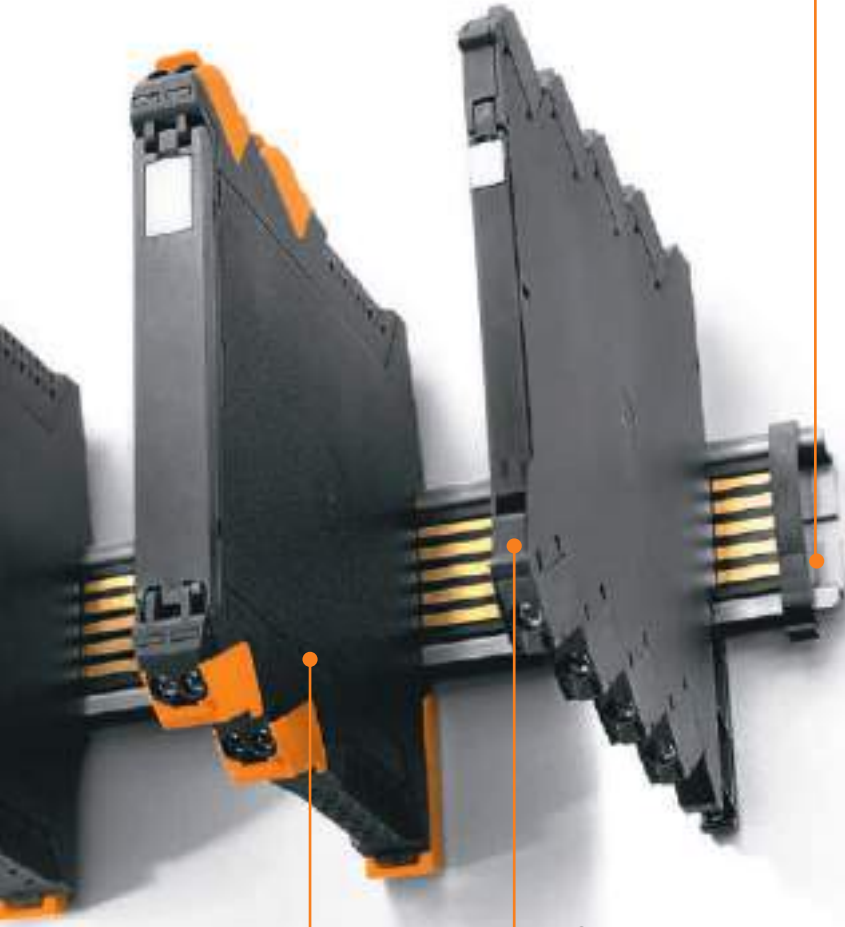
### Unlimited configuration

Compatible: The individual modules can be positioned anywhere on any TS 35 standard top-hat rail. Unused areas are safely covered.



**Maximum availability:**

Reliable: Five fully-galvanised and partially gold-plated twin-arched contacts are used to establish a permanent contact to the rail bus. THR solder flanges ensure that the connection to the circuit board is stable.



**State-of-the-art processing**

Efficient: The SMD-compatible bus contact block is made from high-temperature-resistant LCP. It is designed for the SMT reflow process and is delivered in machine-ready packaging.



**Affordable assembly**

Fully automatic: No manual post processing is required for the bus contact block – it is processed with the assembly group in a single SMT assembly process.



**Safe installation**

Low loss: You can safely avoid undesired bus interruptions and high contact resistances. Maximum facility availability ensured by the gold-plated contact surfaces on the system bus and contact block, as well as the consistent system design.



**More flexibility in design**

From design through production to application - CH20M6 sets the market standard with maximal board space with minimal exterior dimensions as well as allowing fully automatic reflow processing or bus connections.





## OMNIMATE® Housing – CH20M67

The new housing offers new assembly dimensions in the 67.5 mm equipment class.

The CH20M-67 sets new standards on the market as a large-scale housing in terms of flexibility for integrating intricate electronic subassemblies. You can distribute the electronic functions over as many as three printed-circuit boards. The front surface of the housings also has a unique size that can be used for freely laying out the operator interface.

Like all housings of the CH20M family from Weidmüller, the CH20M-67 also supports the connection to the mounting rail bus. The system bus is reliably integrated into the 35-mm standard mounting rail and replaces painstaking and error-prone individual wiring.

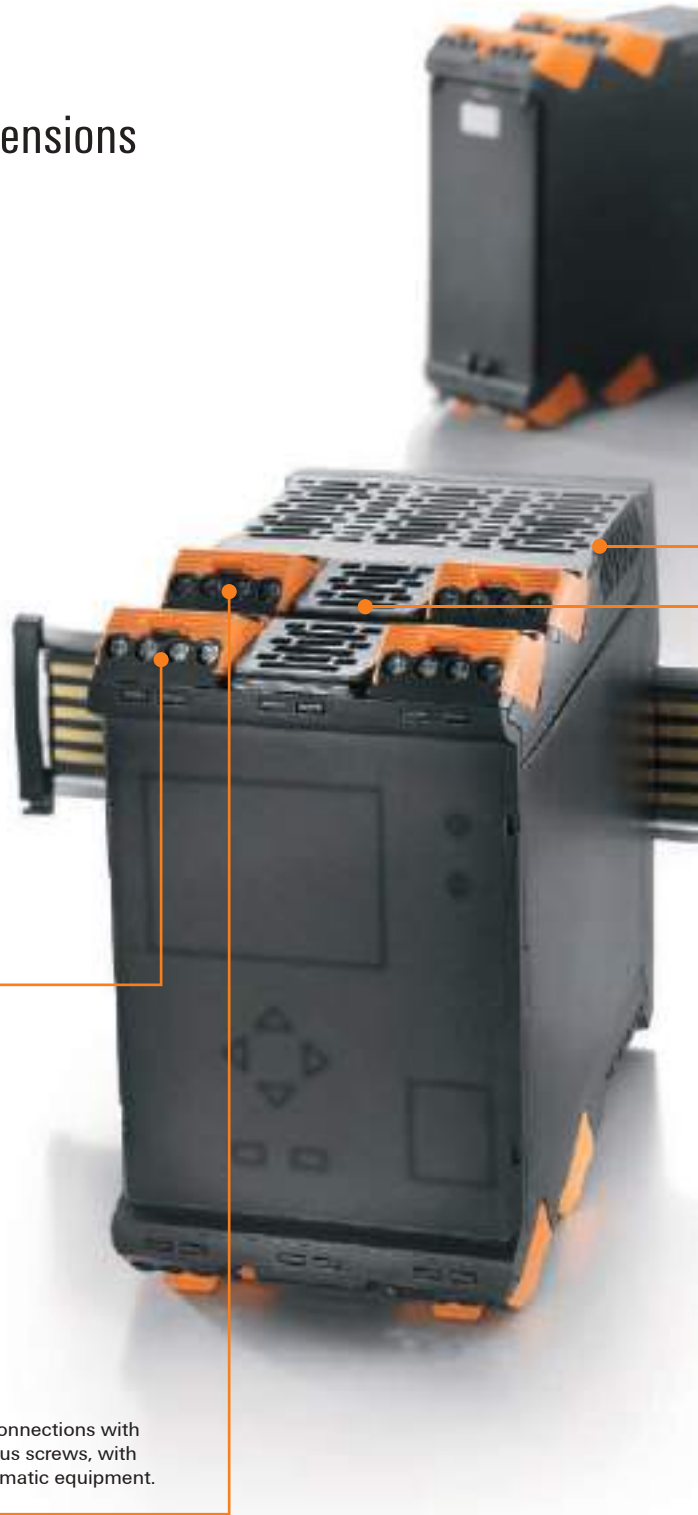
### More reliability when connecting the conductors

Series equipment: The built-in conductor wire guard underinsertion protection prevents the hazardous underinsertion of the conductor and protects it from concealed contact faults. Being wire ready ensures that all connecting points are completely open at delivery.



### More speed at installation

Series equipment: Screwed connections with wiring, supported by plus-minus screws, with power tools just right for automatic equipment.





**More layout area**

The side Ventilation openings are standard equipment in the semi-cooling design and provide sufficient convection for demanding electronics with the maximised layout area on the printed-circuit board.



**More flexibility for interfaces**

Unused plug-in stations or connections that are only accessible from the factory side can be reliably and permanently sealed with the optional AD-SHL-SMT cover.



**More stability on the mounting rail**

The built-in click-in base is premounted at the factory which guarantees easy, reliable and vibration-free fastening on the DIN mounting rail. A guide with four points of support provides a solid base.



**More design freedom**

There is room for one to three printed-circuit boards placed on both sides CH20M-67. There is maximum design flexibility since each printed-circuit board can take four freely selectable positions in the housing.



**More mounting space**

The printed-circuit boards can be positioned at a distance of 2.3 mm (and also 5 mm to the housing wall). This gives you the free choice of single- or double-sided assembly.



# OMNIMATE® Housings Design-IN made easy

## From the circuit diagram to the PCB

Our electronics housings can be customised quickly and easily with the aid of the Weidmüller Configurator.

### Efficient digital engineering

The Weidmüller Configurator (WMC) & EDA data

#### 1. Tried-and-tested configuration designs in real 3D

Configure your own housing quickly and easily with the Weidmüller Configurator. The smart linking of our assembly-specific individual parts enables a simple and clear assembly of your housing. The integrated plausibility and collision check together with the complete digital documentation ensures that you can rely 100% on your configuration.

#### 2. Seamless CAD Integration

Integrated interfaces enable the simple export of product data between the WMC and all common CAD tools.

#### 3. Quickly and easily back on the PCB

With our EDA component library and predefined PCB layouts, you can quickly and easily integrate our products into your EDA software.



Get started online now!  
[www.weidmueller.com/wmc](http://www.weidmueller.com/wmc)



# OMNIMATE® sample service

## Quick and easy from an idea to your desk.

Try out our electronics housings yourself and order up to three free samples from the OMNIMATE® sample service. These are available in the form of pre-assembled demonstration samples and unassembled development kits.

For your first circuits, stripboards are also available from this service and will be on your desk within 72 hours.



[www.weidmueller.com/housingsample](http://www.weidmueller.com/housingsample)

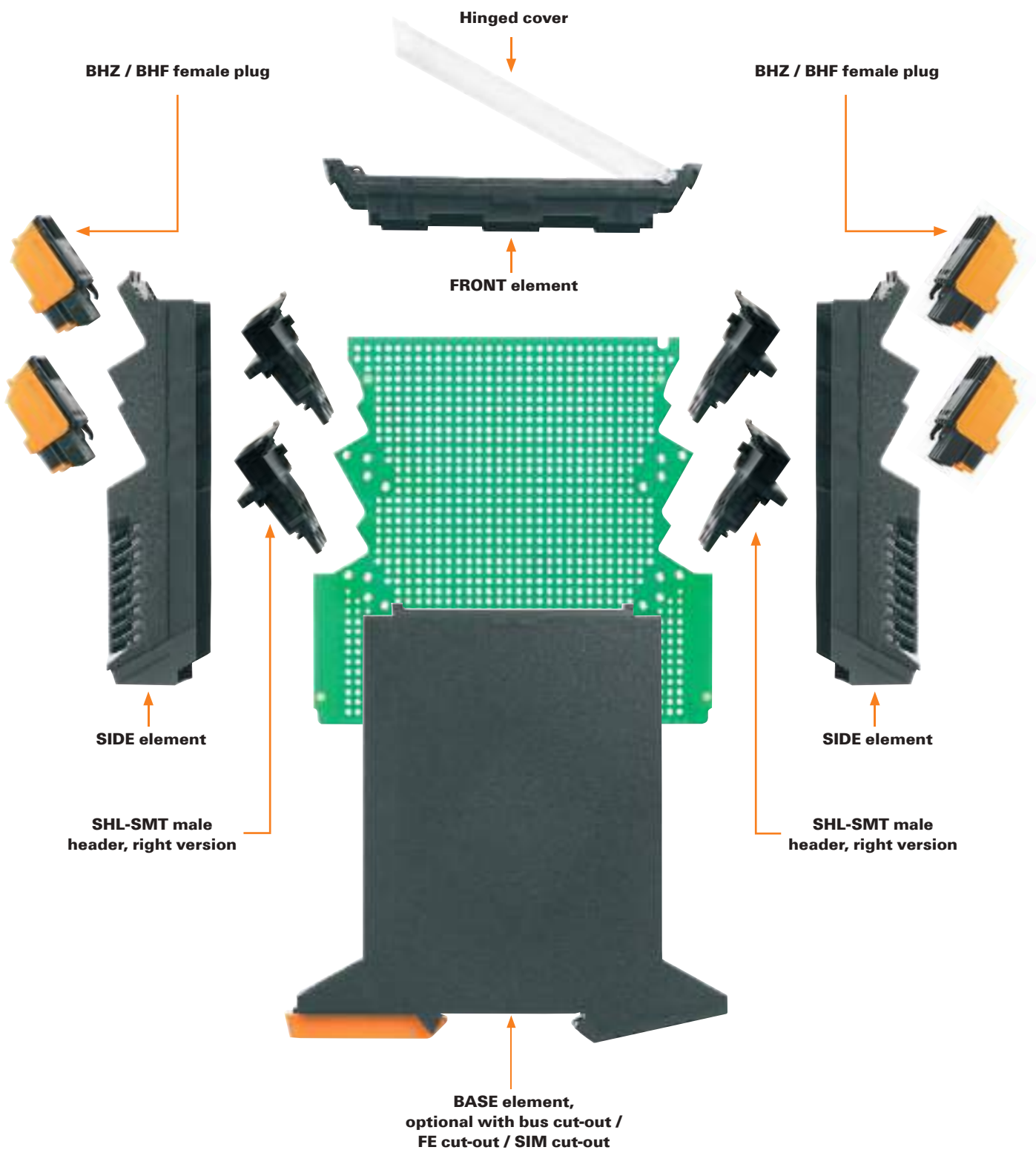


Type	Qty.	Order No.
<b>Demonstration sample</b>		
SK DEMO CH20M6	1	1203310000
SK DEMO CH20M12	1	1111630000
SK DEMO CH20M17	1	1167200000
SK DEMO CH20M22	1	1105600000
SK DEMO CH20M45	1	1111640000
SK DEMO CH20M67	1	1270820000
<b>Development kit</b>		
SK S-KIT CH20M6	1	1203290000
SK S-KIT CH20M12	1	1167190000
SK S-KIT CH20M17	1	1255820000
SK S-KIT CH20M22	1	1158390000
SK S-KIT CH20M45	1	1203350000
SK S-KIT CH20M67	1	1275810000
<b>Hole pattern boards</b>		
SAMPLE LP CH20M6	1	1171090000
SAMPLE LP CH20M22 PPX	1	1105580000
SAMPLE LP CH20M PPP	1	1317200000
<b>Bus system sample</b>		
SK S-KIT IN-RAIL BUS CH20M 12-67	1	1327040000










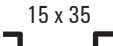


# OMNIMATE® Housing – System CH20M

## System overview



T

Housing elements	Description/Type	Design options
<b>Hinged cover</b> 	<b>COVER (CH20Mxx C xx)</b> <ul style="list-style-type: none"> <li>• Transparent (light or dark)</li> <li>• Holds itself in place when opened</li> <li>• Sealable</li> </ul>	 <b>Transparent</b>  <ul style="list-style-type: none"> <li>• Pad printing</li> <li>• Markable</li> <li>• Machinable</li> </ul>  123 
<b>Housing front</b> 	<b>FRONT (CH20Mxx F xx)</b> <ul style="list-style-type: none"> <li>• Large usable surface for the operational and display elements</li> <li>• Can be customised</li> </ul>	  <b>Transparent</b>  123  <ul style="list-style-type: none"> <li>• Laser marking</li> <li>• With hinges for cover</li> <li>• Optionally without preparation for hinged cover</li> </ul>
<b>Connection area</b> 	<b>SIDE (CH20Mxx S xx)</b> <ul style="list-style-type: none"> <li>• 1 - 3 connection levels</li> <li>• Can be configured asymmetrically</li> <li>• For up to 3 circuit boards</li> <li>• Up to 72 wires can be connected</li> <li>• Up to 9 slots for female plugs</li> </ul>	  <b>Transparent</b>  123  <ul style="list-style-type: none"> <li>• Laser marking</li> <li>• 1 - 3 plugging levels</li> <li>• Up to 3 circuit boards, can be populated on both sides</li> <li>• With or without bus cut-out</li> </ul> 
<b>Housing base</b> 	<b>BASE (CH20Mxx B xx)</b> <ul style="list-style-type: none"> <li>• For TS 35 DIN rails</li> <li>• Pre-attached snap-on foot</li> <li>• ESD-protected (8kV acc. to EN 61000-4-2)</li> <li>• All elements are permanently snapped in</li> </ul>	  <b>Transparent</b>  123  <ul style="list-style-type: none"> <li>• Laser marking</li> <li>• With or without bus / SIM cut-out</li> <li>• Optional FE contact</li> <li>• Snap-on foot in 3 standard colours (OR / SW / RD) <sup>1)</sup></li> </ul>
<b>Connection system</b> 	<b>BHZ female plug / SHL male header</b> <ul style="list-style-type: none"> <li>• Reflow compatible</li> <li>• Integrated "AutoSet" coding optional factory-encoding</li> <li>• Release lever is standard</li> <li>• Plug can be removed in direction of operation</li> <li>• Can be automatically processed</li> </ul>	  <b>Transparent</b>  123  <ul style="list-style-type: none"> <li>• Headers packaged in box or on tape</li> <li>• Clamping yoke screw connection</li> <li>• PUSH IN spring connection</li> </ul> 
<b>Rail bus</b> 	<b>Bus</b> <ul style="list-style-type: none"> <li>• Integrated in TS 35 DIN rail</li> <li>• For power, signals and data</li> <li>• 5 conductor paths (max. 5 A / 63 V)</li> <li>• SMD-compatible bus contacts (2 A / 63 V)</li> </ul>	 <b>Transparent</b>  123  <ul style="list-style-type: none"> <li>• Can be shortened to length</li> <li>• For 7.5 and 15 mm with finger-safe hood</li> <li>• Pre-assembled on request</li> </ul>  7.5 x 35  15 x 35

  printable (pad printing / laser marking), 
  123 markable, 
  machinable, 
  variable circuit board position

<sup>1)</sup> Other colours on request weitere Farben auf Anfrage

# Design examples



Hinged cover, transparent  
**CH20M22 C TP**  
on FRONT element, black  
**CH20M22 F BK**



Hinged cover, black  
**CH20M22 C BK**



FRONT element, black  
**CH20M22 F BK**



FRONT element, black:  
for use without hinged cover  
**CH20M22 FC BK**

## Connection area (SIDE) with 1 – 3 connection levels



Black SIDE element  
3-row,  
12 connections  
**CH20M22 S  
PPP BK**



Black SIDE element  
3-row,  
8 connections  
+ RJ45  
**CH20M22 S  
RPP BK**



Black SIDE element  
2-row,  
8 connections  
**CH20M22 S  
PPSC BK**



Black SIDE element  
1-row,  
4 connections  
**CH20M22 S  
PSCSC BK**

## Connection area (SIDE) with 1 – 3 connection levels and varying connection configurations



Black SIDE element  
1-row 8 connections-  
**CH20M45 S P2SC/P2SC BK**



Black SIDE element  
2-row 16 connections  
incl. Male header  
**CH20M AD-SHL**

AD-SHL

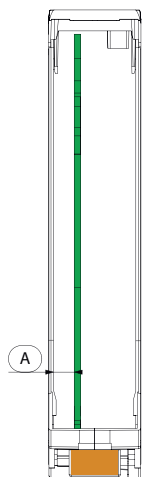


Black SIDE element  
2-row 8 connections  
**CH20M45 S 2PSC/3SC BK**



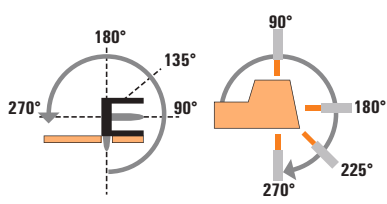
Black SIDE element  
2-row 8 connections  
**CH20M45 S 3SC/2PSC BK**





<http://www.OMNIMATE.net>

Outlet direction



- = fits for CH20M6
- = fits for CH20M12
- = fits for CH20M17
- = fits for CH20M22, CH20M45, CH20M67



Type	Orientation	Number of poles	Alignment of connection side	Pin length	Distance moulding wall to PCB (A)
------	-------------	-----------------	------------------------------	------------	-----------------------------------

T

PCB-terminal	Clamping yoke	Type	Orientation	Number of poles
Female plug	Clamping yoke	LHZ-SMT	90°	1
		BHZ 5.00	90°	2
		BHZ 5.00	90°	3
		BHZ 5.00	90°	4
PCB-terminal	PUSH IN	Type	Orientation	Number of poles
Female plug	PUSH IN	LHF-SMT	180°	1
		BHF 5.00	180°	2
		BHF 5.00	180°	3
		BHF 5.00	180°	4

PCB-terminal	Male header							
--------------	-------------	--	--	--	--	--	--	--

 <b>THR solder connection</b>	 <b>THT solder connection</b>							
---	---	--	--	--	--	--	--	--



LHZ/LHF-SMT	SHL-SMT	SHL-SMT	SHL-SMT	SHL-SMT	SHL-SMT	SHL-SMT	SHL-SMT	SHL-SMT	SHL-SMT
90°/180°	90°	90°	90°	90°	90°	90°	90°	90°	90°
1	2	3	3	4	4	2	3	4	4
left/right	left/right	left/right	left/right	left/right	left/right	left/right	left/right	left/right	left/right
1.5 mm	4.2 mm	1.5 mm	4.2 mm	1.5 mm	4.2 mm	5.9 mm	5.9 mm	5.9 mm	5.9 mm
	2.3 mm	5 mm	2.3 mm	5 mm	2.3 mm	2.3 mm	2.3 mm	2.3 mm	2.3 mm
○									
	●					●			
		●	●				●		
				●	●			●	
○									
	●					●			
		●	●				●		
				●	●			●	

T

CH20M6



Modular component housing for electronic components  
 • 6.1mm wide

Technical data

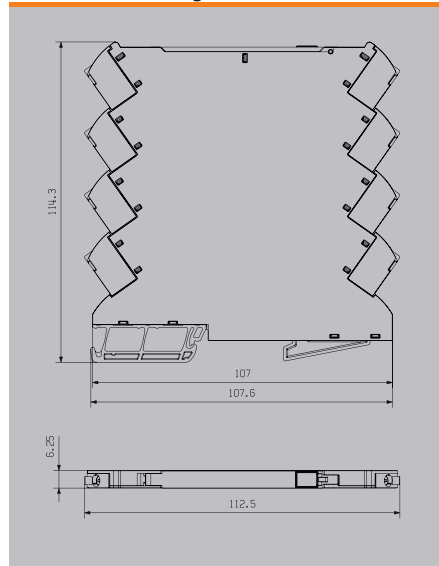
Number of PCBs, max.	1
Number of connection levels, max.	8
Number of poles, max.	8
Height of components on the PCB, max.	3.5 mm
Type of assembly of the PCB	one-sided
UL 94 flammability rating	V-0
Type of insulation material	PBT
Insulating material group	II
Comparative Tracking Index (CTI)	400 ≤ CTI < 600

Demo/Sample Kit

Type	Qty.	Order No.
SK DEMO CH20M6	1	1203310000
SK S-KIT CH20M6	1	1203290000

Demo kits are already assembled in final configuration (demonstrationpieces), S-kits contain individual parts (e.g. for prototyping)

Dimensioned drawing



CH20M6 BP

Housing base



Ordering data

Version	Colour	Cut out in clip-on foot area for:	Type	Order No.
<b>Housing base part</b>				
	Agate grey		CH20M6 BP 4P-4P AGY LF 1 1293807	2771450000
	black		CH20M6 BP 4P-4P BK LF 1 1261494	2771470000
	Pebble grey		CH20M6 BP 4P-4P GY LF 1 1261516	2771460000
	red		CH20M6 BP 4P-4P RD LF 1 1261515	2771490000
	Traffic grey (RAL)		CH20M6 BP 4P-4P TGY LF 1 1293806	2771480000
<b>Housing base part including preparation for busconnector</b>				
	Agate grey	BUS-contact, contact not included!	CH20M6 BP 4P-4P BUS AGY LF 1 1293807	2771420000
	black	BUS-contact, contact not included!	CH20M6 BP 4P-4P BUS BK LF 1 1261494	2771430000
	Pebble grey	BUS-contact, contact not included!	CH20M6 BP 4P-4P BUS GY LF 1 1261516	2771440000
	red	BUS-contact, contact not included!	CH20M6 BP 4P-4P BUS RD LF 1 1261515	2771410000
	Traffic grey (RAL)	BUS-contact, contact not included!	CH20M6 BP 4P-4P BUS TGY LF 1 1293806	2771400000
<b>Housing base part including functional earth connector</b>				
	black	FE contact, Contact included!	CH20M6 BP 4P-4P FE BK 1 1261494	2435460000
<b>Note</b>				

CH20M6 C



Ordering data

Version	Colour	Type	Order No.
<b>Flip cover</b>			
	black, Transparent	CH20M6 C BK 1819	2418620000
	Transparent	CH20M6 C TP 8089	1073410000
<b>Note</b>			

## CH20M6 BC

## Housing side panel



## Ordering data

Version	Colour	Cut out in clip-on foot area for:	Type	Order No.
<b>Cover</b>				
	Agate grey		CH20M6 BC 4P-4P AGY 1 1293807	2771210000
	black		CH20M6 BC 4P-4P BK 1 1261494	2771160000
	Pebble grey		CH20M6 BC 4P-4P GY 1 1261516	2771180000
	red		CH20M6 BC 4P-4P RD 1 1261515	2771190000
	Traffic grey (RAL)		CH20M6 BC 4P-4P TGY 1 1293806	2771200000
<b>Cover including preparation for busconnector</b>				
	Agate grey	BUS-contact, contact not included!	CH20M6 BC 4P-4P BUS AGY 1 1293807	2771220000
	black	BUS-contact, contact not included!	CH20M6 BC 4P-4P BUS BK 1 1261494	2771130000
	Pebble grey	BUS-contact, contact not included!	CH20M6 BC 4P-4P BUS GY 1 1261516	2771140000
	red	BUS-contact, contact not included!	CH20M6 BC 4P-4P BUS RD 1 1261515	2771150000
	Traffic grey (RAL)	BUS-contact, contact not included!	CH20M6 BC 4P-4P BUS TGY 1 1293806	2771170000
<b>Note</b>				



CH20M12



Modular component housing for electronic components

- 12.5 mm wide
- Pluggable wire connection

Technical data

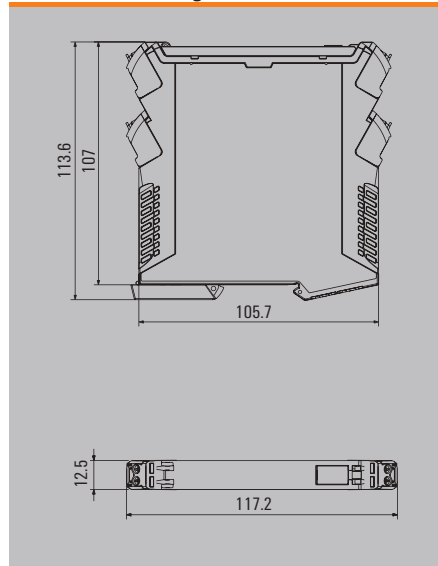
Number of PCBs, max.	1
Number of connection levels, max.	3
Number of sockets for female connectors, max.	6
Number of poles, max.	12
Height of components on the PCB, max.	6.1 mm
Type of assembly of the PCB	double-sided
UL 94 flammability rating	V-0
Type of insulation material	PA 66 GF 30
Insulating material group	I
Comparative Tracking Index (CTI)	600 ≤ CTI

Demo/Sample Kit

Type	Qty.	Order No.
SK DEMO CH20M12	1	1111630000
SK S-KIT - CH20M12	1	1167190000

Demo kits are already assembled in final configuration (demonstrationpieces), S-kits contain individual parts (e.g. for prototyping)

Dimensioned drawing



CH20M12 B

Base element



Ordering data

Version	Colour	Color of clip-on foot	Cut out in clip-on foot area for:	Type	Order No.
<b>Housing base element</b>					
	Agate grey	black		CH20M12 B AGY/BK 3747	2554620000
	black	black		CH20M12 B BK/BK 2010	1104170000
	black	orange		CH20M12 B BK/OR 2010	1104180000
	Light Grey	black		CH20M12 B LGY/BK 2018	1294310000
<b>Housing base element including functional cut-out in snap-in foot area</b>					
	black	black	BUS-contact, contact not included!	CH20M12 B BUS BK/BK 2010	1366350000
	black	orange	BUS-contact, contact not included!	CH20M12 B BUS BK/OR 2010	1176980000
	Light Grey	black	BUS-contact, contact not included!	CH20M12 B BUS LGY/BK 2018	1310520000
	black	orange	FE contact, contact not included!	CH20M12 B FE BK/OR 2010	1176990000
<b>Note</b>					

CH20M12 C / CH20M12 F

Cover element / Front element



Ordering data

Version	Colour	Flip cover mountable	Type	Order No.
<b>Front element including preparation for flip cover</b>				
	Agate grey	Yes	CH20M12 F AGY 3747	2554760000
	black	Yes	CH20M12 F BK 2010	1104190000
	Light Grey	Yes	CH20M12 F LGY 2018	1294350000
<b>Flip cover</b>				
	black, Transparent		CH20M12 C BK 1819	1104240000
	Transparent		CH20M12 C TP 8089	1104250000
<b>Note</b>				

CH20M12 S

Side element



Ordering data

Version	Colour	Number of slots for female plugs	Number of ventilation openings	Type	Order No.
<b>Side element with three plugs per side</b>					
	black	3	0	CH20M12 S PPP BK 2010	1174280000
	blue	3	0	CH20M12 S PPP BL 2013	1294340000
	Light Grey	3	0	CH20M12 S PPP LGY 2018	1294330000
	Agate grey	3	0	CH20M12 S PPP AGY 3747	2554690000
<b>Side element with two plugs per side</b>					
	Agate grey	2	1	CH20M12 S PPSC AGY 3747	2554860000
	black	2	1	CH20M12 S PPSC BK 2010	1104200000
	blue	2	1	CH20M12 S PPSC BL 2013	1104220000
	Light Grey	2	1	CH20M12 S PPSC LGY 2018	1294320000
<b>Side element with one plug per side</b>					
	Agate grey	1	2	CH20M12 S PSCSC AGY	2638340000
	black	1	2	CH20M12 S PSCSC BK 2010	1104210000
	blue	1	2	CH20M12 S PSCSC BL 2013	1104230000
	Light Grey	1	2	CH20M12 S PSCSC LGY 2018	1312680000
<b>Note</b>					

CH20M17



Modular component housing for electronic components

- 17.5 mm wide
- Pluggable wire connection

Technical data

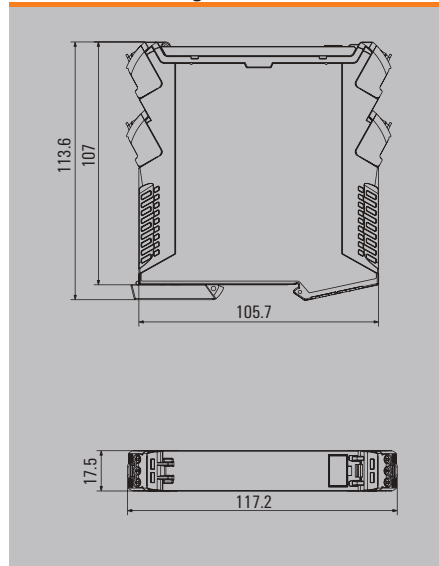
Number of PCBs, max.	1
Number of connection levels, max.	3
Number of sockets for female connectors, max.	6
Number of poles, max.	18
Height of components on the PCB, max.	11.1 mm
Type of assembly of the PCB	double-sided
UL 94 flammability rating	V-0
Type of insulation material	PA 66 GF 30
Insulating material group	I
Comparative Tracking Index (CTI)	600 ≤ CTI

Demo/Sample Kit

Type	Qty.	Order No.
SK DEMO CH20M17	1	1167200000
SK S-KIT CH20M17	1	1255820000

Demo kits are already assembled in final configuration (demonstrationpieces), S-kits contain individual parts (e.g. for prototyping)

Dimensioned drawing



CH20M17 B

Base element



Ordering data

Version	Colour	Color of clip-on foot	Cut out in clip-on foot area for:	Type	Order No.
<b>Housing base element</b>					
	Agate grey	black		CH20M17 B AGY/BK 3747	2554640000
	black	black		CH20M17 B BK/BK 2010	1254120000
	black	orange		CH20M17 B BK/OR 2010	1254130000
	blue	black		CH20M17 B BL/BK 2013	1544520000
<b>Housing base element including functional cut-out in snap-in foot area</b>					
	black	black	BUS-contact, contact not included!	CH20M17 B BUS BK/BK 2010	1366280000
	black	orange	BUS-contact, contact not included!	CH20M17 B BUS BK/OR 2010	1254180000
	black	black	FE contact, contact not included!	CH20M17 B FE BK/BK 2010	1378000000
	black	orange	FE contact, contact not included!	CH20M17 B FE BK/OR 2010	1254190000
<b>Note</b>					

CH20M17 C / CH20M17 F

Cover element / Front element



Ordering data


Version	Colour	Flip cover mountable	Type	Order No.
<b>Front element</b>				
	black	No	CH20M17 FC BK 2010	2655080000
	black, Transparent	No	CH20M17 FC TP BK 1819	2697310000
	Traffic yellow	No	CH20M17 FC TYL 2083	2655070000
<b>Front element including preparation for flip cover</b>				
	Agate grey	Yes	CH20M17 F AGY 3747	2554750000
	black	Yes	CH20M17 F BK 2010	1254140000
	Light Grey	Yes	CH20M17 F LGY 2018	1529530000
<b>Flip cover</b>				
	black		CH20M17 C BK 1819	1254150000
	Transparent		CH20M17 C TP 8089	1254160000
<b>Note</b>				

## CH20M17 S

## Side element



## Ordering data

Version	Colour	Number of slots for female plugs	Number of ventilation openings	Type	Order No.
<b>Side element with three plugs per side</b>					
	Agate grey	3	0	CH20M17 S PPP AGY 3747	2554700000
	black	3	0	CH20M17 S PPP BK 2010	1254170000
	Light Grey	3	0	CH20M17 S PPP LGY 2018	1529520000
	Traffic yellow	3	0	CH20M17 S PPP TYL 2083	1395730000
<b>Note</b>					

CH20M22



Modular component housing for electronic components

- 22.5 mm wide
- Pluggable wire connection

Technical data

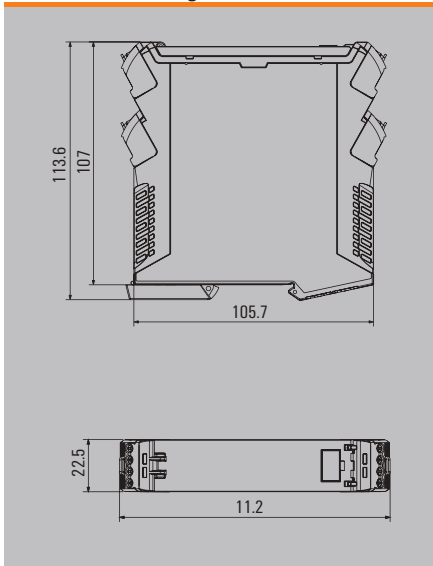
Number of PCBs, max.	1
Number of connection levels, max.	3
Number of sockets for female connectors, max.	6
Number of poles, max.	24
Height of components on the PCB, max.	16.1 mm
Type of assembly of the PCB	double-sided
UL 94 flammability rating	V-0
Type of insulation material	PA 66 GF 30
Insulating material group	I
Comparative Tracking Index (CTI)	600 ≤ CTI

Demo/Sample Kit

Type	Qty.	Order No.
SK DEMO CH20M22	1	1105600000
SK S-KIT - CH20M22	1	1158390000

Demo kits are already assembled in final configuration (demonstrationpieces), S-kits contain individual parts (e.g. for prototyping)

Dimensioned drawing



CH20M22 B

Base element



Ordering data

Version	Colour	Color of clip-on foot	Cut out in clip-on foot area for:	Type	Order No.
<b>Housing base element</b>					
	Agate grey	black		CH20M22 B AGY/BK 3747	1545130000
	black	black		CH20M22 B BK/BK 2010	2418630000
	black	orange		CH20M22 B BK/OR 2010	1104450000
	black	red		CH20M22 B BK/RD 2010	2555100000
	Graphite grey	black		CH20M22 B GGY/BK 2019	1073350000
	Light Grey	black		CH20M22 B LGY/BK 2018	1164670000
	red	black		CH20M22 B RD/BK 2014	1206870000
<b>Housing base element including functional cut-out in snap-in foot area</b>					
	black	black	BUS-contact, contact not included!	CH20M22 B BUS BK/BK 2010	1243030000
	black	orange	BUS-contact, contact not included!	CH20M22 B BUS BK/OR 2010	1177000000
	Agate grey	black	FE contact, contact not included!	CH20M22 B FE AGY/BK 3747	1472800000
	black	orange	FE contact, contact not included!	CH20M22 B FE BK/OR 2010	1177010000
	black	black	BUS-contact, FE contact, contact not included!	CH20M22 B BUS FE BK/BK 2010	1384030000
	black	orange	BUS-contact, FE contact, contact not included!	CH20M22 B BUS FE BK/OR 2010	2004700000

Note

CH20M22 C / CH20M22 F

Cover element / Front element



Ordering data

Version	Colour	Flip cover mountable	Type	Order No.
<b>Front element</b>				
	Agate grey	No	CH20M22 FC AGY 3747	1472810000
	black	No	CH20M22 FC BK 2010	1209350000
	Graphite grey	No	CH20M22 FC GGY 2019	1209360000
	Light Grey	No	CH20M22 FC LGY 2018	1209370000
	red	No	CH20M22 FC RD 2014	1206880000
	black, Transparent	No	CH20M22 FC TP BK 1819	2639980000
	Traffic yellow	No	CH20M22 FC TYL 2083	1304240000
<b>Front element including preparation for flip cover</b>				
	black	Yes	CH20M22 F AGY 3747	2554730000
	black	Yes	CH20M22 F BK 2010	2418640000
	Graphite grey	Yes	CH20M22 F GGY 2019	1073360000
	Light Grey	Yes	CH20M22 F LGY 2018	1164680000
	red	Yes	CH20M22 F RD 2014	1209380000
	Traffic yellow	Yes	CH20M22 F TYL 2083	1350230000
<b>Flip cover</b>				
	black, Transparent		CH20M22 C BK 1819	2418670000
	Transparent		CH20M22 C TP 8089	1073420000

Note

## CH20M22 S

## Side element



## Ordering data

Version	Colour	Number of slots for female plugs	Number of ventilation openings	Cut out functional port	Type	Order No.
<b>Side element with three plugs per side</b>						
	Agate grey	3	0		CH20M22 S PPP AGY 3747	2554840000
	black	3	0		CH20M22 S PPP BK 2010	1139790000
	blue	3	0		CH20M22 S PPP BL 2013	1296430000
	Graphite grey	3	0		CH20M22 S PPP GGY 2019	1411500000
	Light Grey	3	0		CH20M22 S PPP LGY 2018	1296440000
<b>Side element with two plugs per side</b>						
	Agate grey	2	1		CH20M22 S PPSC AGY 3747	2554710000
	black	2	1		CH20M22 S PPSC BK 2010	2418650000
	blue	2	1		CH20M22 S PPSC BL 2013	2418660000
	Graphite grey	2	1		CH20M22 S PPSC GGY 2019	1073370000
	Light Grey	2	1		CH20M22 S PPSC LGY 2018	1164690000
	red	2	1		CH20M22 S PPSC RD 2014	1206890000
<b>Side element with one plug per side</b>						
	Agate grey	1	2		CH20M22 S PSCSC AGY 3747	2554850000
	black	1	2		CH20M22 S PSCSC BK 2010	1080630000
	blue	1	2		CH20M22 S PSCSC BL 2013	1070620000
	Graphite grey	1	2		CH20M22 S PSCSC GGY 2019	1451120000
	Light Grey	1	2		CH20M22 S PSCSC LGY 2018	1432860000
<b>Side element with two plugs, one functional port per side</b>						
	Agate grey	2	0	RJ45	CH20M22 S RPP AGY 3747	1472820000
	black	2	0	RJ45	CH20M22 S RPP BK 2010	1276590000
	Light Grey	2	0	RJ45	CH20M22 S RPP LGY 2018	1470700000
<b>Note</b>						

T

CH20M45



Modular component housing for electronic components

- 45 mm wide
- Pluggable wire connection

Technical data

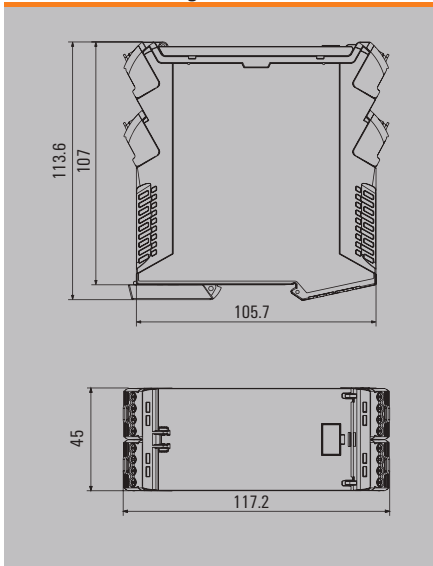
Number of PCBs, max.	2
Number of connection levels, max.	3
Number of sockets for female connectors, max.	12
Number of poles, max.	48
Height of components on the PCB (usage of 1 PCB), max.	38.6 mm
Height of components on the PCB (usage of 2 PCB), max.	34.7 mm
Type of assembly of the PCB	double-sided
UL 94 flammability rating	V-0
Type of insulation material	PA 66 GF 30
Insulating material group	I
Comparative Tracking Index (CTI)	600 ≤ CTI

Demo/Sample Kit

Type	Qty.	Order No.
SK DEMO CH20M45	1	1111640000
SK S-KIT CH20M45	1	1203350000

Demo kits are already assembled in final configuration (demonstrationpieces), S-kits contain individual parts (e.g. for prototyping)

Dimensioned drawing



CH20M45 B

Base element



Ordering data

Version	Colour	Color of clip-on foot	Cut out in clip-on foot area for:	Type	Order No.
<b>Housing base element</b>					
	black	black		CH20M45 B BK/BK 2010	1104400000
	black	orange		CH20M45 B BK/OR 2010	1104410000
	black	red		CH20M45 B BK/RD 2010	2555110000
	Graphite grey	black		CH20M45 B GGY/BK 2019	1164710000
	Light Grey	black		CH20M45 B LGY/BK 2018	1164750000
	red	black		CH20M45 B RD/BK 2014	1206910000
<b>Housing base element including functional cut-out in snap-in foot area</b>					
	black	black	BUS-contact, contact not included!	CH20M45 B BUS BK/BK 2010	1476000000
	black	orange	BUS-contact, contact not included!	CH20M45 B BUS BK/OR 2010	1177020000
	Graphite grey	black	BUS-contact, contact not included!	CH20M45 B BUS GGY/BK 2019	1413770000
	black	orange	FE contact, contact not included!	CH20M45 B FE BK/OR 2010	1177030000
	blue	orange	FE contact, contact not included!	CH20M45 B FE BL/OR 2013	2579680000
	black	black	Micro SIM card (3FF)	CH20M45 B SIM BK/BK 2010	2738670000
<b>Note</b>					

CH20M45 C / CH20M45 F

Cover element / Front element



Ordering data








Version	Colour	Flip cover mountable	Type	Order No.
<b>Front element</b>				
	black	No	CH20M45 FC BK 2010	1164800000
	Graphite grey	No	CH20M45 FC GGY 2019	1164730000
	Light Grey	No	CH20M45 FC LGY 2018	1164780000
	red	No	CH20M45 FC RD 2014	1206920000
	black, Transparent	No	CH20M45 FC TP BK 1819	2673070000
<b>Front element including preparation for flip cover</b>				
	black	Yes	CH20M45 F BK 2010	1104420000
	blue	Yes	CH20M45 F BL 2013	2579660000
	Graphite grey	Yes	CH20M45 F GGY 2019	1164720000
	Light Grey	Yes	CH20M45 F LGY 2018	1164770000
	red	Yes	CH20M45 F RD 2014	1209390000
	Traffic yellow	Yes	CH20M45 F TYL 2083	1337640000
<b>Flip cover</b>				
	black, Transparent		CH20M45 C BK 1819	1104430000
	Transparent		CH20M45 C TP 8089	1104440000
<b>Note</b>				

## CH20M45 S

## Side element



## Ordering data

Version	Colour	Number of slots for female plugs	Number of ventilation openings	Cut out functional port	Type	Order No.
<b>Side element with six plugs per side</b>						
	black	6	0		CH20M45 S 3P/3P BK 2010	1137730000
	blue	6	0		CH20M45 S 3P/3P BL 2013	2624760000
	Light Grey	6	0		CH20M45 S 3P/3P LGY 2018	1444330000
	Traffic yellow	6	0		CH20M45 S 3P/3P TYL 2083	1482830000
<b>Side element with four plugs per side</b>						
	black	4	2		CH20M45 S 2PSC/2PSC BK 2010	1111720000
	blue	4	2		CH20M45 S 2PSC/2PSC BL 2013	1476910000
	Graphite grey	4	2		CH20M45 S 2PSC/2PSC GGY 2019	1164740000
	Light Grey	4	2		CH20M45 S 2PSC/2PSC LGY 2018	1164790000
	red	4	2		CH20M45 S 2PSC/2PSC RD 2014	1206930000
	Traffic yellow	4	2		CH20M45 S 2PSC/2PSC TYL 2083	1327990000
<b>Side element with two plugs per side</b>						
	black	2	4		CH20M45 S P2SC/P2SC BK 2010	1166180000
	blue	2	4		CH20M45 S P2SC/P2SC BL 2013	2579670000
<b>Side element with two plugs per side, vertical left</b>						
	black	2	4		CH20M45 S 2PSC/3SC BK 2010	1137740000
	Light Grey	2	4		CH20M45 S 2PSC/3SC LGY 2018	2585480000
<b>Side element with two plugs per side, vertical right</b>						
	black	2	4		CH20M45 S 3SC/2PSC BK 2010	1137750000
	Light Grey	2	4		CH20M45 S 3SC/2PSC LGY 2018	2585490000
<b>Side element with three plugs, one functional port preparation per side</b>						
	black	3	2	RJ45	CH20M45 S RPSC/2PSC BK 2010	1500040000
<b>Side element with two plugs, one functional port per side</b>						
	black	2	2	Mini-USB, RJ45	CH20M45 S 2PSC/RUSC BK 2010	1500050000
<b>Note</b>						

T



CH20M67



Modular component housing for electronic components

- 67.5 mm wide
- Pluggable wire connection

Technical data

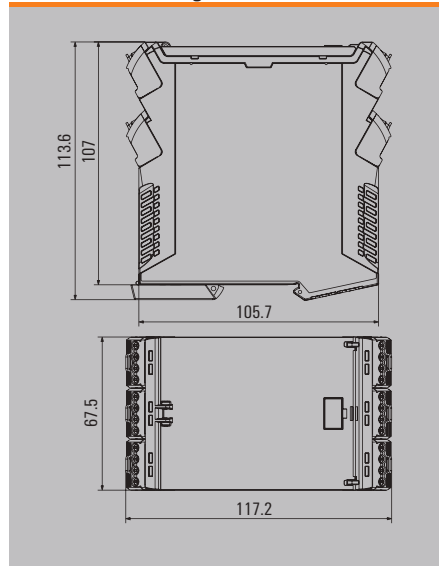
Number of PCBs, max.	3
Number of connection levels, max.	3
Number of sockets for female connectors, max.	18
Number of poles, max.	72
Height of components on the PCB (usage of 1 PCB), max.	61.1 mm
Height of components on the PCB (usage of 2 PCB), max.	57.2 mm
Height of components on the PCB (usage of 3 PCB), max.	34.7 mm
Type of assembly of the PCB	double-sided
UL 94 flammability rating	V-0
Type of insulation material	PA 66 GF 30
Insulating material group	I
Comparative Tracking Index (CTI)	600 ≤ CTI

Demo/Sample Kit

Type	Qty.	Order No.
SK DEMO CH20M67	1	1270820000
SK S-KIT CH20M67	1	1275810000

Demo kits are already assembled in final configuration (demonstrationpieces), S-kits contain individual parts (e.g. for prototyping)

Dimensioned drawing



CH20M67 B

Base element



Ordering data

Version	Colour	Colour of clip-on foot	Cut out in clip-on foot area for:	Type	Order No.
<b>Housing base element</b>					
	black	black		CH20M67 B BK/BK 2010	1235270000
	black	orange		CH20M67 B BK/OR 2010	1235250000
	Traffic yellow	black		CH20M67 B TYL/BK 2083	2653360000

Housing base element including functional cut-out in snap-in foot area					
	black	black	BUS-contact, contact not included!	CH20M67 B BUS BK/BK 2010	1490820000
	black	orange	BUS-contact, contact not included!	CH20M67 B BUS BK/OR 2010	1247240000
	Graphite grey	black	BUS-contact, contact not included!	CH20M67 B BUS GGY/BK 2019	1413780000
	black	orange	FE contact, contact not included!	CH20M67 B FE BK/OR 2010	1247250000
	black	orange	2x FE contact, contact not included!	CH20M67 B 2FE BK/OR	2745200000

Note

CH20M67 F

Front element



Ordering data

Version	Colour	Flip cover mountable	Type	Order No.
<b>Front element</b>				
	black	No	CH20M67 FC BK 2010	1235310000
	Graphite grey	No	CH20M67 FC GGY 2019	1413810000
	black	No	CH20M67 FC TYL 2083	2653370000



Note

**CH20M67 S**

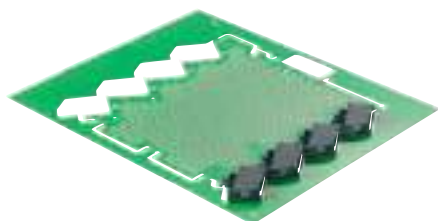
**Side element**



**Ordering data**

Version	Colour	Number of slots for female plugs	Number of ventilation openings	Type	Order No.
<b>Side element with nine plugs per side</b>					
	black	9	0	CH20M67 S 3P/3P/3P BK 2010	1420370000
	Graphite grey	9	0	CH20M67 S 3P/3P/3P GGY 2019	1455770000
	Traffic yellow	9	0	CH20M67 S 3P/3P/3P TYL 2083	2653380000
<b>Side element with six plugs per side</b>					
	black	6	3	CH20M67 S 2PSC/2PSC/2PSC BK 2010	1235320000
	Graphite grey	6	3	CH20M67 S 2PSC/2PSC/2PSC GGY 2019	1413820000
<b>Note</b>					

LHZ, LHF



THR PCB terminal for 6 mm housings,  
CH20M6 reflow-compatible,  
Pole count: 1  
solder pin length: 1.5 mm  
Orientation: 90° / 180°

Technical data

Insulating material	LCP
Flammability rating (UL 94)	V0
Rated voltage	250 V
Rated current	13 A

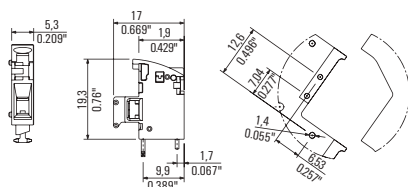
Conductors that can be connected

Clamping range	0.13 mm <sup>2</sup> - 2.5 mm <sup>2</sup>
Wire cross-section, AWG, min.	AWG 26 - AWG 14
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup>
With wire-end ferrule with DIN 46 228/4, min.	0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup>

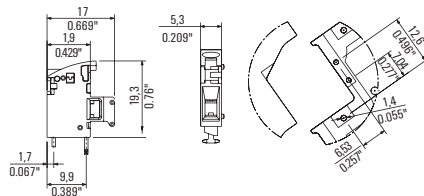
Rated data according to DIN IEC

Rated voltage for surge voltage class / contamination degree III/3	250 V
Rated impulse voltage for surge voltage class / contamination degree III/3	4 kV
Rated voltage for surge voltage class / contamination degree III/2	320 V
Rated impulse voltage for surge voltage class / contamination degree III/2	4 kV
Rated voltage for surge voltage class / contamination degree II/2	500 V
Rated impulse voltage for surge voltage class / contamination degree II/2	4 kV

Dimensional drawing

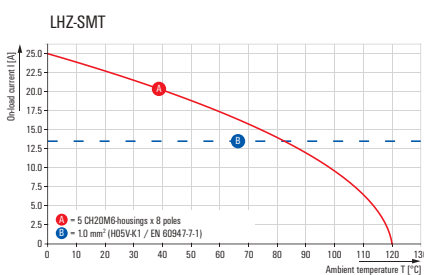


Version left



Version right

Derating curve



Note: Rated data according to UL - refer to the online data sheet

LHZ-SMT 1.5SN BK

PCB terminal with screw connection



Ordering data

Type / Version	Qty.	Order No.
LHZ-SMT L 1.5SN BK RL Left version, tape-on-reel	432	2418580000
LHZ-SMT R 1.5SN BK RL Right version, tape-on-reel	432	2418590000
LHZ-SMT L 1.5SN BK BX Left version, Box packaging	306	1137870000
LHZ-SMT R 1.5SN BK BX Right version, Box packaging	306	1137880000

LHF-SMT 1.5SN BK/GY

PCB terminal with PUSH IN connection



Ordering data

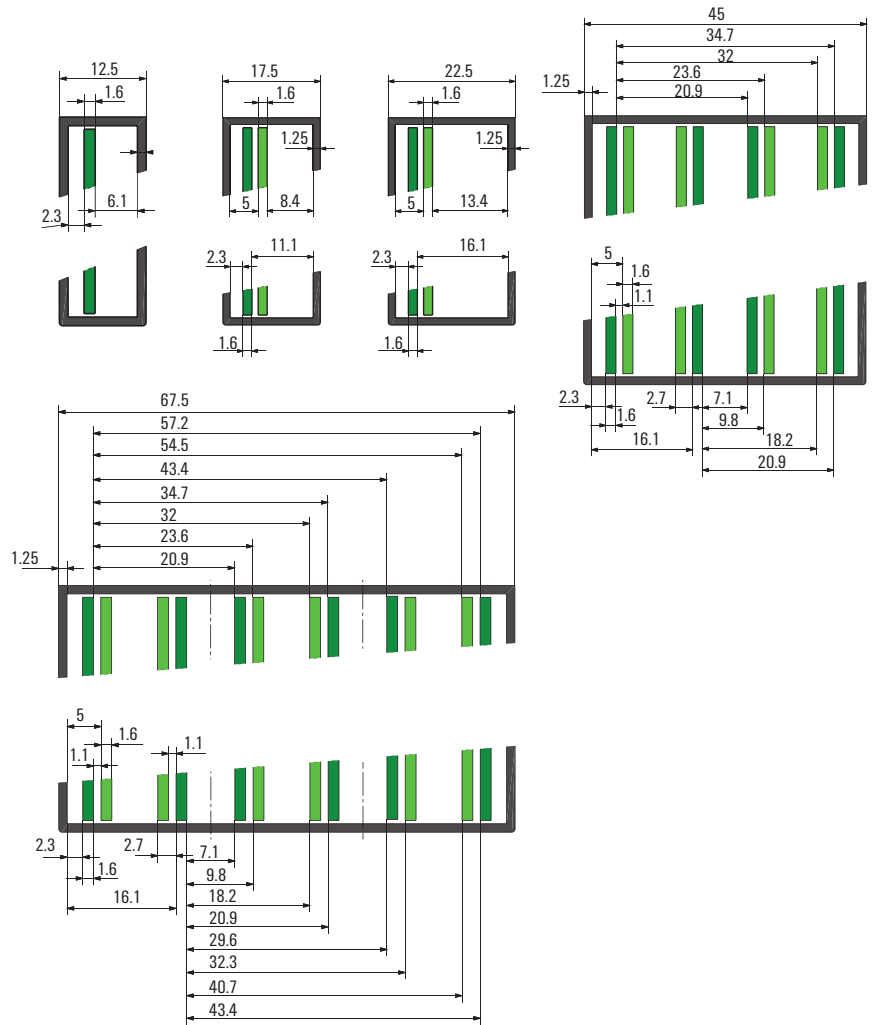
Type / Version	Qty.	Order No.
LHF-SMT L 1.5SN BK/GY RL Left version, tape-on-reel	432	2581750000
LHF-SMT R 1.5SN BK/GY RL Right version, tape-on-reel	432	2581380000
LHF-SMT L 1.5SN BK/GY BX Left version, Box packaging	306	on request
LHF-SMT R 1.5SN BK/GY BX Right version, Box packaging	306	on request

**Circuit board positions in CH20M**

Housing width (mm)	12.5	17.5	22.5	45.0	67.5
Number of circuit boards	1	1	1	2	3
Positions per circuit board	1	2	2	4	4



**Dimensional sketch**

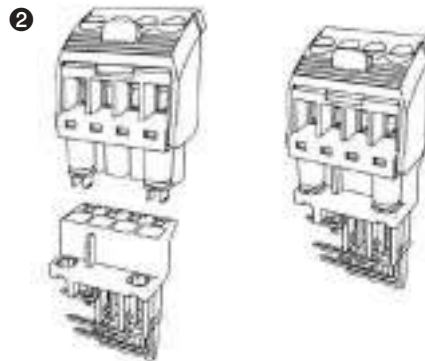


**Features of the BHZ/BHF/SHL-SMT connector system**

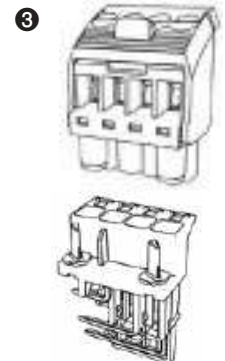
- Clamping yoke screw connection – with “WireReady”, wire guard protection and plus/minus screw
- Integrated, captive coding (with “AutoSet” function) protects against accidental mismatch
- Leading contact on the male headers
- Finger-safety provided for both, male and female connector
- PUSH IN wire connection for especially fast wiring of electronics



Coding can be set with one of 16 possible configurations



Connecting the female connector



Male header coding transferred to module

SHL-SMT



THR male header for modular housing CH20M12-67  
 Can be reflow soldered, resistant to high temperatures  
 The position of the PCB (see also dimensional sketch) is determined through the configuration of the pin headers  
 Suffix 1.5: PCB position 5,0 mm / pin length 1,5 mm (Reflow)  
 Suffix 4.2: PCB position 2,3 mm / pin length 1,5 mm (Reflow)  
 Suffix 5.9: PCB position 2,3 mm / pin length 3,2 mm (Wave)

Technical data

Insulating material	LCP
Flammability rating (UL 94)	VO
Rated voltage	250 V
Rated current	10 A

SHL-SMT 5.00/GL BX



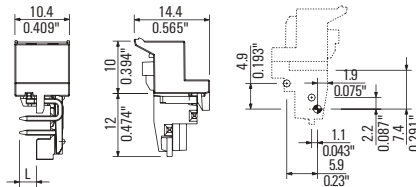
Left-sided pin header  
 Box packaging

Ordering data

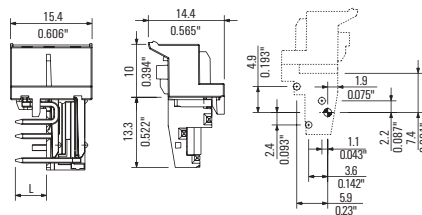
Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GL 4.2BX	2	150	1069620000
SHL-SMT 5.00/02GL 5.9BX	2	150	1069750000
SHL-SMT 5.00/03GL 1.5BX	3	120	1063210000
SHL-SMT 5.00/03GL 4.2BX	3	120	1069630000
SHL-SMT 5.00/03GL 5.9BX	3	120	1069760000
SHL-SMT 5.00/04GL 1.5BX	4	108	1063220000
SHL-SMT 5.00/04GL 4.2BX	4	108	1069640000
SHL-SMT 5.00/04GL 5.9BX	4	108	1069770000

Dimensional drawing

Version left  
 2-pole



3-pole



SHL-SMT 5.00/GL RL



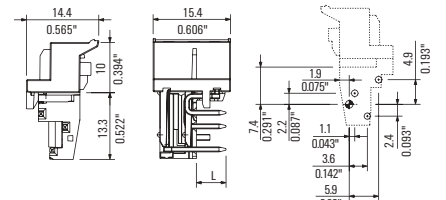
Left-sided pin header  
 Tape-on-reel

Ordering data

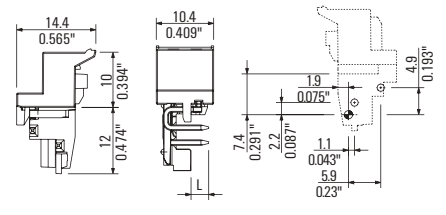
Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GL 4.2RL	2	260	1069650000
SHL-SMT 5.00/02GL 5.9RL	2	260	1069780000
SHL-SMT 5.00/03GL 1.5RL	3	175	1063240000
SHL-SMT 5.00/03GL 4.2RL	3	175	1069660000
SHL-SMT 5.00/03GL 5.9RL	3	175	1069790000
SHL-SMT 5.00/04GL 1.5RL	4	130	1063250000
SHL-SMT 5.00/04GL 4.2RL	4	130	1069670000
SHL-SMT 5.00/04GL 5.9RL	4	130	1069810000

Dimensional drawing

Version right  
 2-pole



3-pole



Rated data when used together with BHZxx female plug; refer to page N.32

**SHL-SMT 5.00/GR BX**



Version right  
Box packaging

**SHL-SMT 5.00/GR RL**



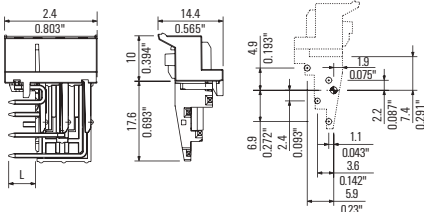
Version right  
Tape-on-reel

**Ordering data**

Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GR 4.2BX	2	150	1069550000
SHL-SMT 5.00/02GR 5.9BX	2	150	1069680000
SHL-SMT 5.00/03GR 1.5BX	3	120	1063140000
SHL-SMT 5.00/03GR 4.2BX	3	120	1069560000
SHL-SMT 5.00/03GR 5.9BX	3	120	1069690000
SHL-SMT 5.00/04GR 1.5BX	4	108	1063150000
SHL-SMT 5.00/04GR 4.2BX	4	108	1069570000
SHL-SMT 5.00/04GR 5.9BX	4	108	1069710000

**Dimensional drawing**

Version left  
4-pole

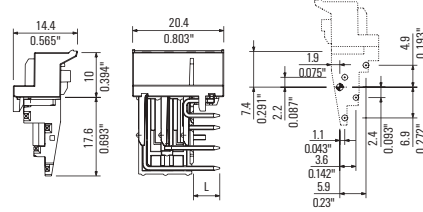


**Ordering data**

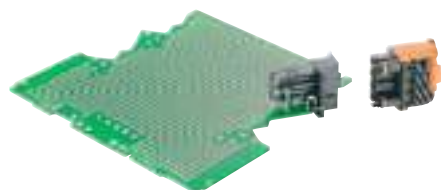
Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GR 4.2RL	2	260	1069580000
SHL-SMT 5.00/02GR 5.9RL	2	260	1069720000
SHL-SMT 5.00/03GR 1.5RL	3	175	1063170000
SHL-SMT 5.00/03GR 4.2RL	3	175	1069590000
SHL-SMT 5.00/03GR 5.9RL	3	175	1069730000
SHL-SMT 5.00/04GR 1.5RL	4	130	1063180000
SHL-SMT 5.00/04GR 4.2RL	4	130	1069610000
SHL-SMT 5.00/04GR 5.9RL	4	130	1069740000

**Dimensional drawing**

Version right  
4-pole



BHZ, BHF



Female plug for modular housing CH20M12-67  
5.00 mm, PUSH IN or Screw connection, integrated coding, release lever can be colour coded

Available in other colours on request

Technical data

Insulating material	PA
Flammability rating (UL 94)	V0
Rated voltage	250 V
Rated current	10 A

Conductors that can be connected

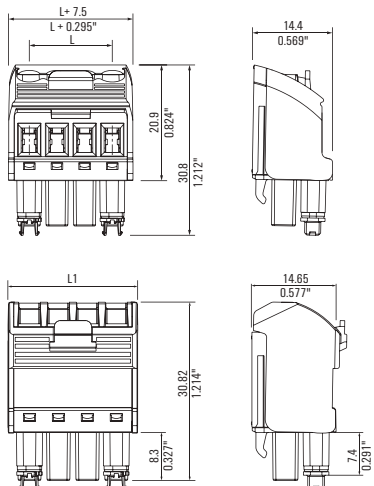
Clamping range	0.13 mm <sup>2</sup> - 3.31 mm <sup>2</sup>
Wire cross-section, AWG, min	AWG 26 - AWG 12
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, max.	0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup>
With wire-end ferrule with DIN 46 228/4, min.	0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup>

Rated data according to DIN IEC

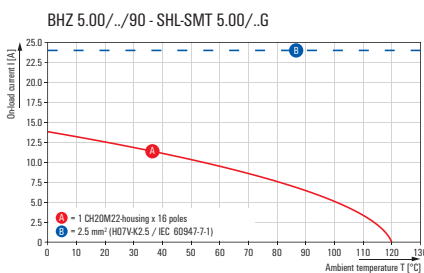
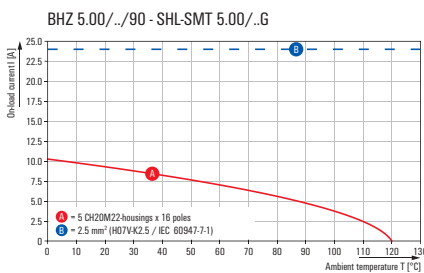
Rated current, Max. pole count (Tu=20 °C)	10 A
Rated current, Max. pole count (Tu=40 °C)	9 A
Rated voltage for surge voltage class / contamination degree III/3	250 V
Rated impulse voltage for surge voltage class / contamination degree III/3	4 kV
Rated impulse voltage for surge voltage class / contamination degree III/2	4 kV
Rated voltage for surge voltage class / contamination degree III/2	320 V
Rated voltage for surge voltage class / contamination degree II/2	400 V
Rated impulse voltage for surge voltage class / contamination degree II/2	4 kV

Note: Rated data according to UL - refer to the online data sheet

Dimensional drawing



Derating curve



BHZ 5.00/90 BK/OR

Female header with screw connection



Ordering data

Type / Version	Poles	Qty.	Order No.
BHZ 5.00/02/90LH BK/OR	2	150	1063260000
BHZ 5.00/03/90LH BK/OR	3	108	1063270000
BHZ 5.00/04/90LH BK/OR	4	78	1063280000

BHF 5.00/180LH BK/OR

Female header with PUSH IN connection



Ordering data

Type / Version	Poles	Qty.	Order No.
BHF 5.00/02/180LH BK/OR	2	150	1988380000
BHF 5.00/03/180LH BK/OR	3	108	1989210000
BHF 5.00/04/180LH BK/OR	4	78	1989190000

**BHZ 5.00/90 BK/BK**

Female header with PUSH IN connection

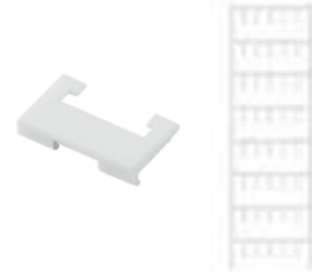


**BHZ 5.00/90 BK/BL**

Female header with PUSH IN connection



**Accessories**



Marker for release lever

**Ordering data**

Type / Version	Poles	Qty.	Order No.
BHZ 5.00/02/90LH BK/BK	2	150	1069330000
BHZ 5.00/03/90LH BK/BK	3	108	1069340000
BHZ 5.00/04/90LH BK/BK	4	78	1069350000

**Ordering data**

Type / Version	Poles	Qty.	Order No.
BHZ 5.00/02/90LH BK/BL	2	150	1069360000
BHZ 5.00/03/90LH BK/BL	3	108	1069370000
BHZ 5.00/04/90LH BK/BL	4	78	1069380000

**Ordering data**

Type / Version	Poles	Qty.	Order No.
ESG 6.6/11 BHZ 5.00/02	2	200	1082490000
ESG 6.6/15 BHZ 5.00/03	3	200	1082520000
ESG 6.6/20 BHZ 5.00/04	4	200	1082540000
ESG 6.6/11 BHZ 5.00 SDR	2	200	1346330000
ESG 6.6/15 BHZ 5.00 SDR	3	200	1346320000
ESG 6.6/20 BHZ 5.00 SDR	4	40	1221520000

**BHF 5.00/180LH BK/BK**

Female header with PUSH IN connection



**BHF 5.00/180LH BK/BL**

Female header with PUSH IN connection



**Ordering data**

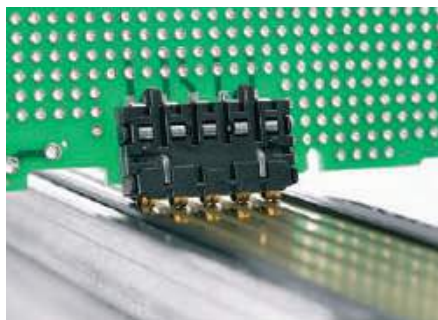
Type / Version	Poles	Qty.	Order No.
BHF 5.00/02/180LH BK/BK	2	150	1497740000
BHF 5.00/03/180LH BK/BK	3	108	1497670000
BHF 5.00/04/180LH BK/BK	4	78	1497500000

**Ordering data**

Type / Version	Poles	Qty.	Order No.
BHF 5.00/02/180LH BK/BL	2	150	1989220000
BHF 5.00/03/180LH BK/BL	3	108	1989200000
BHF 5.00/04/180LH BK/BL	4	78	1989090000



SR-SMD

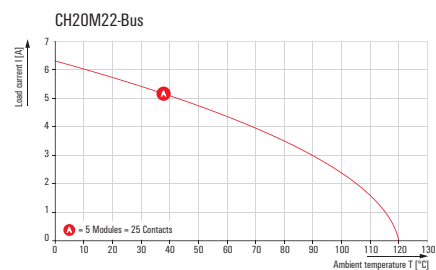
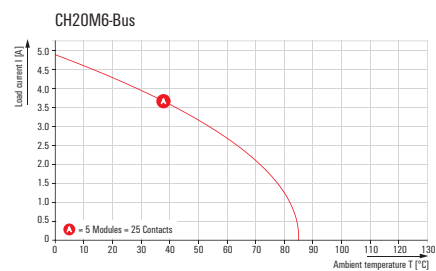


Bus contact block  
Reflow-compatible, resistant to high temperatures,  
5-pole, for rail bus

Technical data

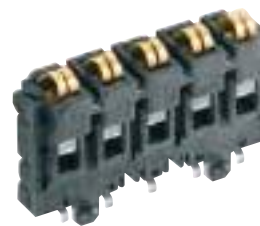
Insulating material	LCP
Flammability rating (UL 94)	V0
Rated voltage IEC	63 V AC
Rated current IEC CH20M6	2 A (at 70 °C)
Rated current IEC CH20M22	4 A (at 70 °C)
Rated voltage UL	150 V
Rated current UL	5 A

Derating curve



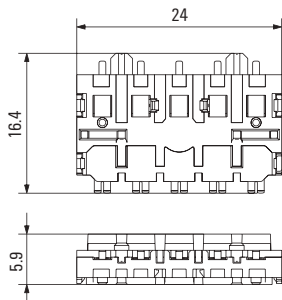
Note: Framework conditions of rating data available on request

SR-SMD

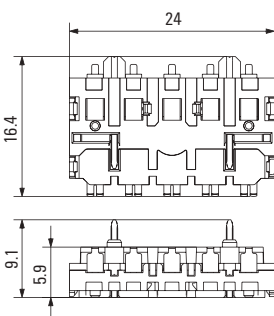


Bus contact for CH20M6

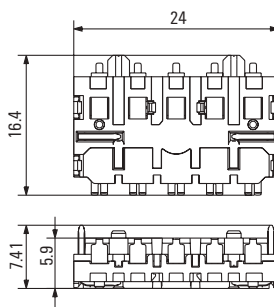
Dimensional drawing



For CH20M6



With centre solder flange for CH20M12-67



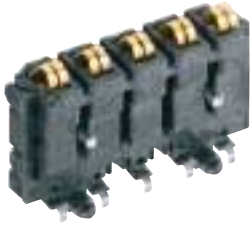
With solder flange for CH20M12-67

Ordering data

Type / Version	Qty.	Order No.
SR-SMD 4.50/05/90 AU BK BX	72	1155840000
SR-SMD 4.50/05/90 AU BK RL	300	1155850000

"BX" means box packaging, "RL" means tape-on-reel

SR-SMD



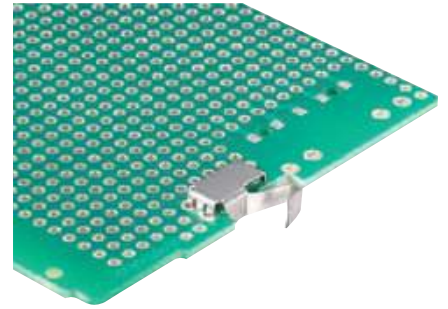
Bus contact with centre solder flange for CH20M12-67

SR-SMD



Bus contact with solder flange for CH20M12-67

CH20M FE 12-67



FE contact for CH20M 12-67

Ordering data

Type / Version	Qty.	Order No.
SR-SMD 4.50/05/90LFM AU BK BX	72	1155870000
SR-SMD 4.50/05/90LFM 3.2AU BK RL	300	1155880000

Ordering data

Type / Version	Qty.	Order No.
SR-SMD 4.50/05/90LF AU BK BX	72	1155890000
SR-SMD 4.50/05/90LF 1.5AU BK RL	300	1155900000

Ordering data

Type / Version	Qty.	Order No.
CH20M FE 12-67 1.5SN RL	750	1189370000
CH20M FE 12-67 3.2SN RL	750	1264240000

"BX" means box packaging, "RL" means tape-on-reel

"BX" means box packaging, "RL" means tape-on-reel

**CH20M BUS-PROFIL TS35x7.5/1000**

Support section for bus circuit board



- Support section for TS 35 x 7.5
- Length: 250, 500 or 750 mm

**Ordering data**

Type	Qty.	Order No.
CH20M BUS-PROFIL TS35x7.5/250	10	1248150000
CH20M BUS-PROFIL TS35x7.5/500	10	1248160000
CH20M BUS-PROFIL TS35x7.5/750	5	1248170000

**Note:** Length specification /XXX = 250, 500 or 750 mm. Other lengths available on request.

**CH20M BUS-PROFIL TS35x15/1000**

Support section for bus circuit board



- Support section for TS 35 x 15
- Length: 250, 500 or 750 mm

**Ordering data**

Type	Qty.	Order No.
CH20M BUS-PROFIL TS35x15/250	5	1248180000
CH20M BUS-PROFIL TS35x15/500	5	1248190000
CH20M BUS-PROFIL TS35x15/750	5	1248210000

**Note:** Length specification /XXX = 250, 500 or 750 mm. Other lengths available on request.

**CH20M BUS 4.50/05 AU/1000**

Bus PCB



- Bus circuit board for use on TS 35 x 7.5 and TS 35 x 15
- Length: 250, 500 or 750 mm
- Five conductor paths, gold-plated
- Electrical rating: 63 V AC, 5 A/conductor path

**Ordering data**

Type	Qty.	Order No.
CH20M BUS 4.50/05 AU/250	10	1248220000
CH20M BUS 4.50/05 AU/500	10	1248230000
CH20M BUS 4.50/05 AU/750	5	1248240000

**Note:** Length specification /XXX = 250, 500 or 750 mm. Other lengths available on request.

**CH20M BUS-ADP TS35/1000**

Cover plate



- Cover plate for DIN rail bus
- Length: 250, 500 or 750 mm

**Ordering data**

Type	Qty.	Order No.
CH20M BUS-ADP TS35/250	10	1248250000
CH20M BUS-ADP TS35/500	10	1248260000
CH20M BUS-ADP TS35/750	5	1248270000

**Note:** Length specification /XXX = 250, 500 or 750 mm. Other lengths available on request.

**CH20M BUS-AP LI TS35x7.5 & 15**

End plate



- End plate for DIN rail bus
- Fits on TS 35 x 7.5 and TS 35 x 15
- left

**Ordering data**

Type	Qty.	Order No.
CH20M BUS-AP LI TS35x7.5 & 15	50	1193160000

**CH20M BUS-AP RE TS35x7.5 & 15**

End plate



- End plate for DIN rail bus
- Fits on TS 35 x 7.5 and TS 35 x 15
- right

**Ordering data**

Type	Qty.	Order No.
CH20M BUS-AP RE TS35x7.5 & 15	50	1193170000

**SET CH20M BUS 250MM TS 35X15**

Set



- SET consists of one each of  
CH20M BUS 4.50/05 AU/250  
CH20M BUS-ADP TS 35/250  
CH20M BUS-AP LI TS 35X7.5 & 15  
CH20M BUS-AP RE TS 35X7.5 & 15  
CH20M BUS-PROFIL TS 35X15/250

**Ordering data**

Type	Qty.	Order No.
SET CH20M BUS 250MM TS 35X15	1	1335150000

**SET CH20M BUS 250MM TS 35X7.5**

Set



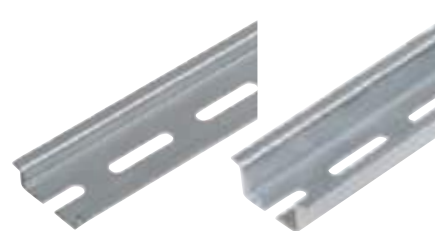
- SET consists of one each of  
CH20M BUS 4.50/05 AU/250  
CH20M BUS-ADP TS 35/250  
CH20M BUS-AP LI TS 35X7.5 & 15  
CH20M BUS-AP RE TS 35X7.5 & 15  
CH20M BUS-PROFIL TS 35X7.5/250

**Ordering data**

Type	Qty.	Order No.
SET CH20M BUS 250MM TS 35X7.5	1	1335140000

**TS 35x7.5 / TS 35x15**

Mounting rail



- Mounting rail with slot
- Steel, galvanised and passivated

**Ordering data**

Type	Qty.	Order No.
TS 35X7.5/LL 1M/ST/ZN	10	0514510000
TS 35X15/LL 1M/ST/ZN	10	0236510000

# OMNIMATE® Housing MICROBOX / TERMINALBOX

The MICROBOX and TERMINALBOX series of small housings are the perfect solution for miniature sliced applications or for the protective circuitry used in connection with terminal blocks.

Up to 6 wires can be connected using the integrated (but high-performance) clamping-yoke screw or tension-clamp wire connection mechanisms.

Because of its closed construction, each individual MICROBOX is finger-safe. The TERMINALBOX can be aligned side-by-side without end or closed off using an end plate.

Pluggable cross-connectors from our terminal block line allow simple, safe power distribution of up to 32 A.

## T

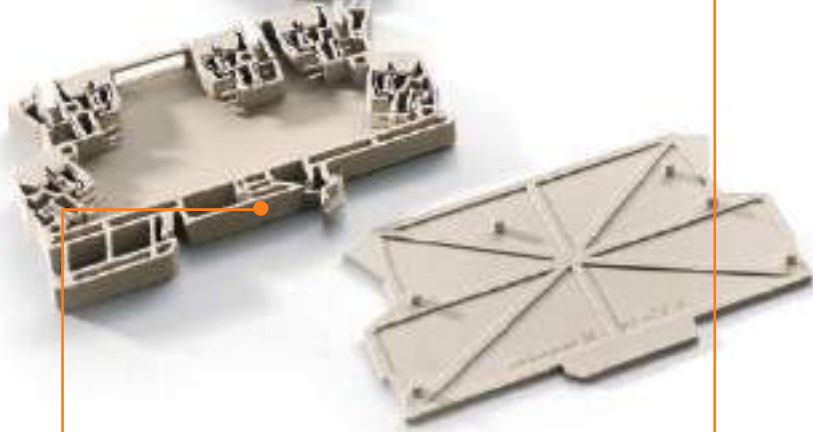
### Secure contacts

The TERMINALBOX MCZ 1.5 can optionally be equipped with a contact element that automatically establishes contact with the rail when the housing is snapped on.



### Compact integration

With a width of only 6.00 mm, the TERMINALBOX MCZ 1.5 provides enough space for a miniature circuit board and 5 tension clamp connection for wires up to 1.5 mm<sup>2</sup>.



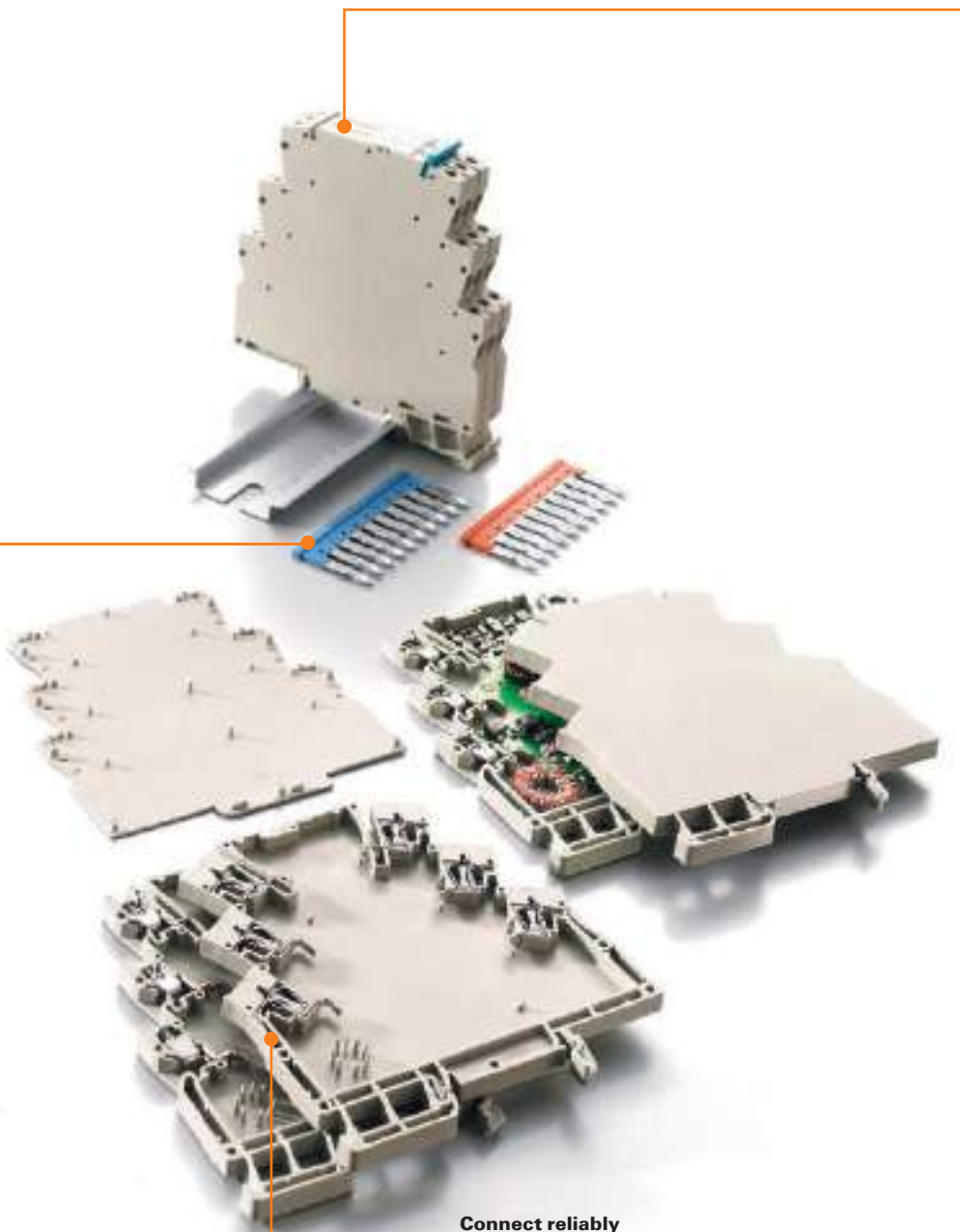
### Seamlessly connected

High-power cross-connectors allow power (up to 32 A) to be easily and quickly distributed on up to three levels.



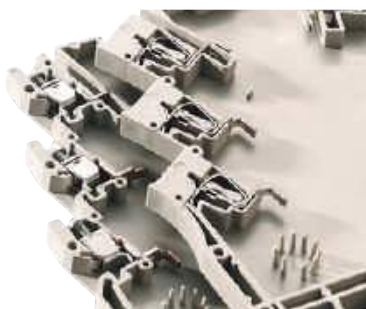
**Easy to operate**

The transparent hinged covers make adjustments simple (for example, using DIP switches). Labelling is also possible.



**Connect reliably**

The MICROBOX provides a permanent, secure clamp connection for 6 wires up to 2.5 mm<sup>2</sup> (MHS 6 with clamping yoke screw connection) or up to 1.5 mm<sup>2</sup> (MHZ 6 with tension-clamp spring connection).



**MICROBOX MHS 6**

Miniature sliced-section housing in 6.1 mm width A total of 6 clamping yoke screw connections (for 2.5 mm<sup>2</sup> wires) can be manually or selectively wave soldered.



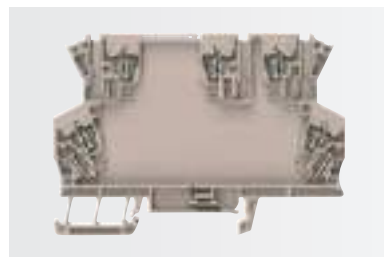
**MICROBOX MHZ 6**

Miniature sliced-section housing in 6.1 mm width A total of 6 tension clamp connection (for 1.5 mm<sup>2</sup> wires) can be manually or selectively wave soldered.



**TERMINALBOX MCZ 1.5**

Terminal-block-format open housings with tension clamp connection for wires up to 1.5 mm<sup>2</sup>. A total of 5 connection elements can be manually or selectively wave soldered.



T





### MCZ 1.5

The transparent hinged top plate is used for labelling and calibration. Maximum equipment level requires 2 short and 3 long current bars. The space available and the number of connections can be doubled using the frame. CAD Models that ease the production of layouts and equipping of boards (details of blocked area, max. component heights, pads, etc.), are available on request. The MCZ housing kit consists of:

- 1 terminal holder
- 1 top plate
- 1-5 current bars with tension clamp
- 1 end plate (if required)

### Technical data

General data	
Dimensions W x L x H (w. TS 35 x 7.5)	mm
No. of connections	total
Access for calibration	
Shielding	
Contact to the mounting rail	
Number of PCB per module	
PCB-connection	
Thickness of PCB	
Ingress protection class	
Tightening torque range	
Stripping length	
Pollution severity	
Material	
Flammability class UL 94	
Colour of insulating material	
Clampable conductors (H05V/H07V)	
Solid	mm <sup>2</sup>
Flexible	mm <sup>2</sup>
Max. conductor AWG	
Plug gauge to 60947-1	
Note	

### Ordering data

Individual parts	
<b>For mounting rail TS 35</b>	with connection element for connection element for mounting rail contact, for connection element
<b>For mounting rail TS 32</b>	with connection element
<b>Frame for TS 35</b>	
<b>Frame for TS 35</b>	for connection element
<b>Frame for TS 32</b>	
<b>Top part</b>	open closed
<b>Current bars (w. tension clamp)</b>	short version long version
<b>Current bars</b>	horizontal vertical
<b>Clamp, yoke unit</b>	clamp, yoke + screw
<b>Screw</b>	
<b>Clamping yoke</b>	
<b>Mounting rail contact</b>	
Housing cover	
Note	

### Accessories

End plate	
Cross-connection	
Note	

### MCZ 1.5

#### Tension clamp connection



6 / 91.3 / 63.5	
5	
Movable top plate	
not available	
Earthing-contact	
1	
soldered connection, directly	
1.0 (+ 0.2) mm	
IP 20	
6 mm	
3	
PA	
V0	
beige/black	
Screw connection	
Tension clamp connection	
	0.2...1.5
	0.2...1.5
	AWG 26...AWG 16
Note	

Type	Qty.	Order No.
MCZ 5	10	8857560000
GH MCZ1.5	1	2224220000
GH MCZUE1.5/UE	1	2312290000
RA MCZ1.5	25	2224240000
KOPL MCZ1.5	18	2224040000
SMSE KU FE MCZ 1.5	1	2224390000
SMSE LN FE MCZ 1.5	1	2224380000
SMSE FE MCZ 1.5/PE	100	1003280000
Note		

Type	Qty.	Order No.
AP MCZ1.5	50	8389030000
ZQV 4N/2	60	1527930000
ZQV 4N/2 BL	60	1528040000
ZQV 4N/2 RD	60	2460450000
Note		
Full housing available as set on request.		



# OMNIMATE® Housing RS

## Profile housing

### Flexible – more flexible – profile form

Build housing in profile form – the flexible modular system of coloured and transparent PVC profiles and carrier modules the perfect combination of any mounting utilising standard pitches and precisely cut to length, this creates the perfect balance between flexibility and efficiency: The modular approach is ideal for assemblies with high space requirements and is particularly suited for small quantities or variable widths.

#### Flexible covers

See-through covers in various heights protect assemblies even with high components safely.



#### Flexible installation

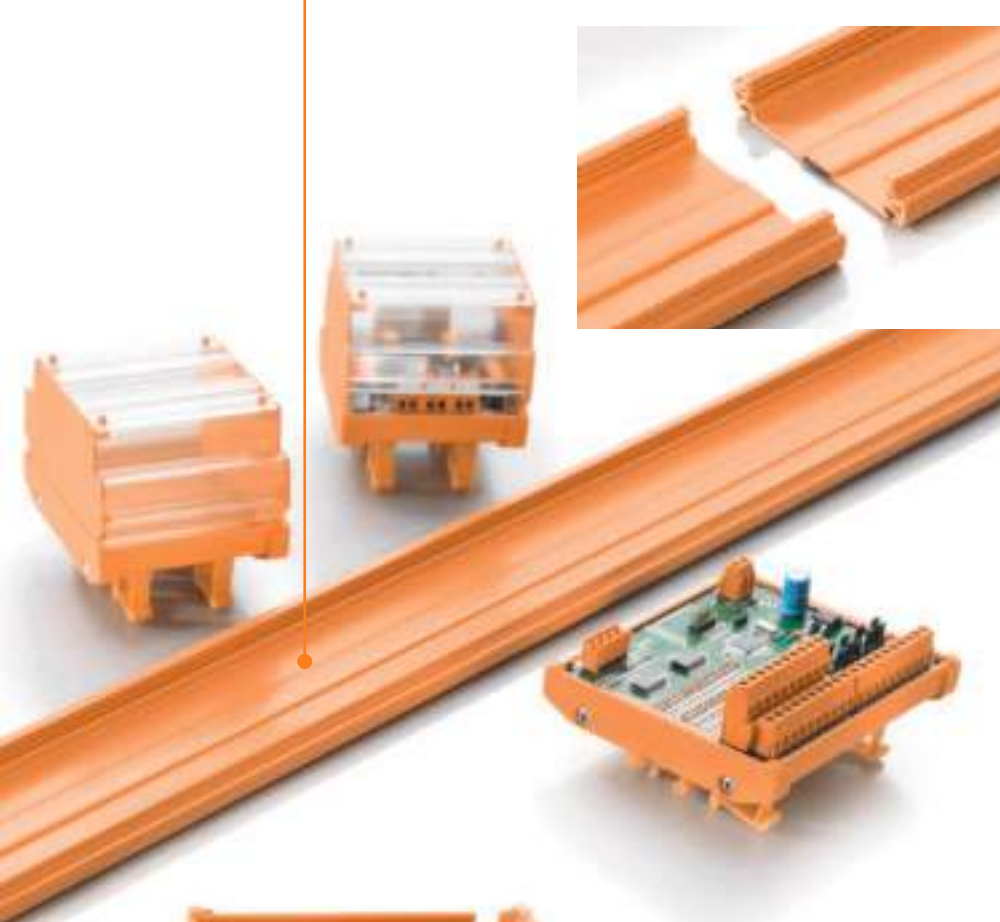
Extruded profiles can take several modules next to each other. Depending on the type of circuit boards can be installed on two different levels.



T

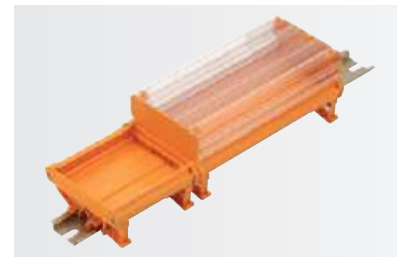
**Flexible lengths**

Cut, or joined together in a row: extruded profiles can be easily adjusted to the space requirements of every application.



**Variable RS-profile housing**

Variable, precision cut extruded profile with different height cover hoods allow maximum packing density even for large electronic sub-assemblies.



**Modular RS-profile housing**

Tool-free latching profiles with standard widths from 5 to 45 mm allow rapid assembly of tailor made solutions.



**Flexible mounting**

Mounting options: snapped onto the mounting rail or directly secured using screws.



T

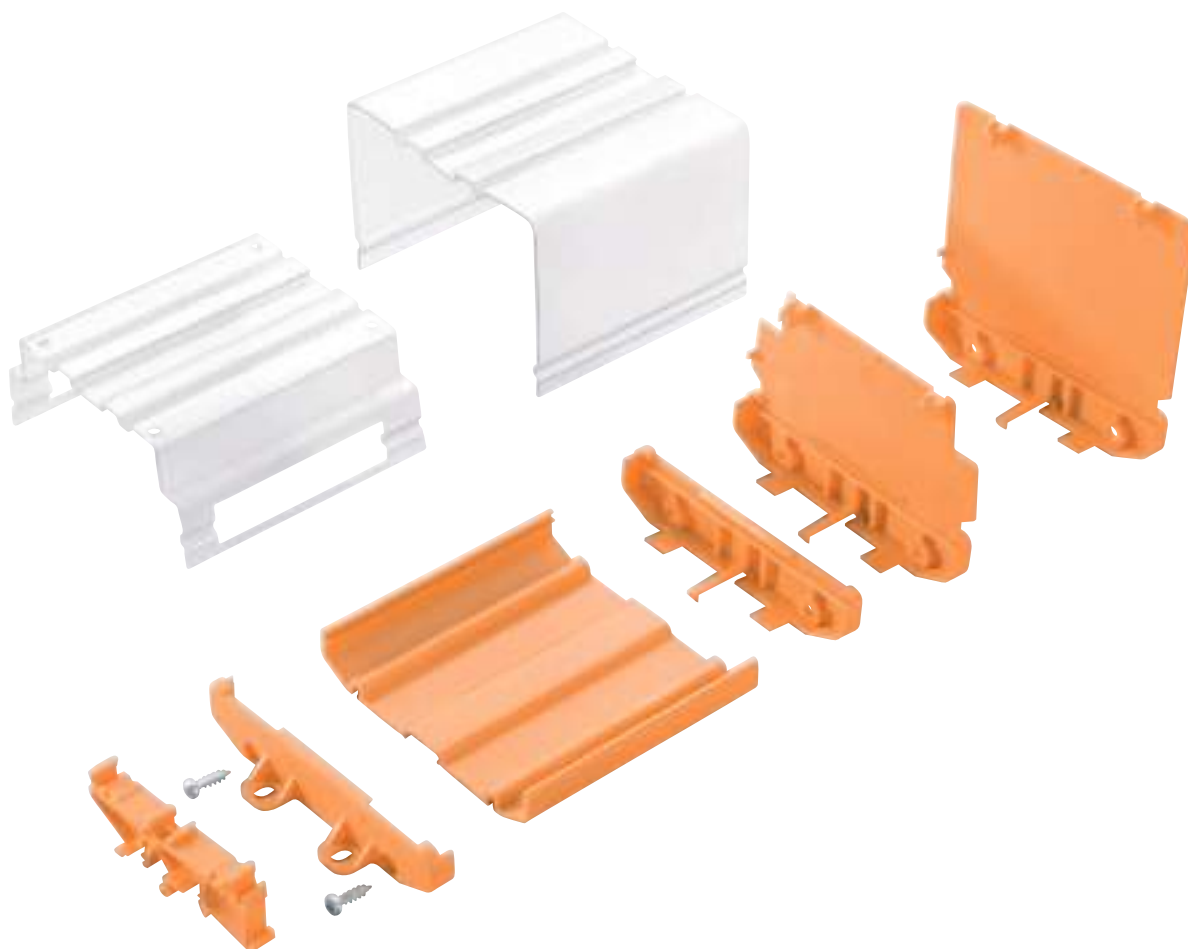
# OMNIMATE® Housing RS

## Profile housing

RS profile housings can be snapped on to DIN rails or mounted directly. They are available in six widths. The extruded profiles can be cut to length or joined together in modules and are ideal for low volume, special assemblies or test set-ups. Fitted transparent hoods are used to protect the components.

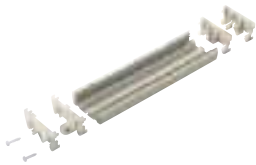
Width	Type	Construction/Width of circuit board	Catalogue pages	Colour scale <sup>1)</sup>
45.0 mm	RS 45	Variable / 42.0 mm	N.46	■ Similar to RAL 9011
70.0 mm	RS 70	Modular / 67.8 mm	N.47	■ Similar to RAL 7024
87.0 mm	RS 80	Variable / 67.8 mm	N.48	■ Similar to RAL 2000
86.0 mm	RS 90	Variable / 79.8 mm	N.49	
109.0 mm	RS 100	Variable / 100.0 mm	N.50	
130.8 mm	RS 122	Variable / 122.0 mm	N.51	

**Note 1)** Other colours on request



Housing variants

RS 45



RS 70



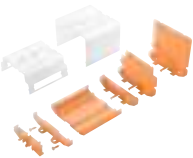
RS 80



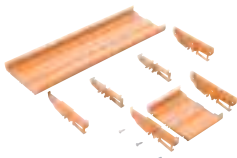
RS 90



RS 100



RS 122



Description/Type

RS extruded profile 45 mm, variable

Features:

- Width: 45 mm
- Circuit board width: 42 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 00

Design options



- Can be shortened to any length
- Rail mounted
- Direct mount<sup>2)</sup>
- Machinable

RS extruded profile 70 mm, modular

Features:

- Width: 70 mm
- Circuit board width: 67.8 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 00

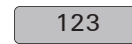


- Can be aligned side-by-side without any tools
- Rail mounted

RS extruded profile 80 mm, variable

Features:

- Width: 87 mm
- Circuit board width: 67.8 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 20
- Markable

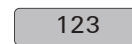


- Can be shortened to any length
- Rail mounted
- Direct mount<sup>2)</sup>
- Transparent hood (opt.)
- Machinable

RS extruded profile 90 mm, variable

Features:

- Width 86: mm
- Circuit board width: 79.8 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 00

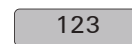


- Can be shortened to any length
- Rail mounted
- Direct mount<sup>2)</sup>
- Machinable

RS extruded profile 100 mm, variable

Features:

- Width 109: mm
- Circuit board width: 100 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 20



- Can be shortened to any length
- Rail mounted
- Direct mount<sup>2)</sup>
- Transparent hood (opt.)
- Machinable

RS extruded profile 122 mm, variable

Features:

- Width: 130.8 mm
- Circuit board width: 122 mm
- Number of circuit boards (max.): 2
- Protection class (max.): IP 00



- Can be shortened to any length
- Rail mounted
- Machinable



pad printing,

123

markable,



can be machine-worked (drilling/milling),

<sup>2)</sup> Screw mount

### RS 45

Depending on the end plate design, the profiles can be mounted directly or on rail

1. The rail-mountable assembly requires:

- 2 end plates for DIN-rail mounting
- 1 extruded profile
- 4 screws

2. Direct-mountable assembly requires:

- 2 end plates for direct mounting
- 1 extruded profile
- 4 screws

### Description

B3 heights are available for cover profile and end plates:

TS-mounting:

TS 32 = 45 mm, TS 35x7.5 = 40.5 mm

Direct mounting: 24 mm

Dimensions of PCB

Thickness: 1.6 (±0.2) mm, width:

42 (+0.5) mm

Size of RS segment = PCB length - 4.5 mm

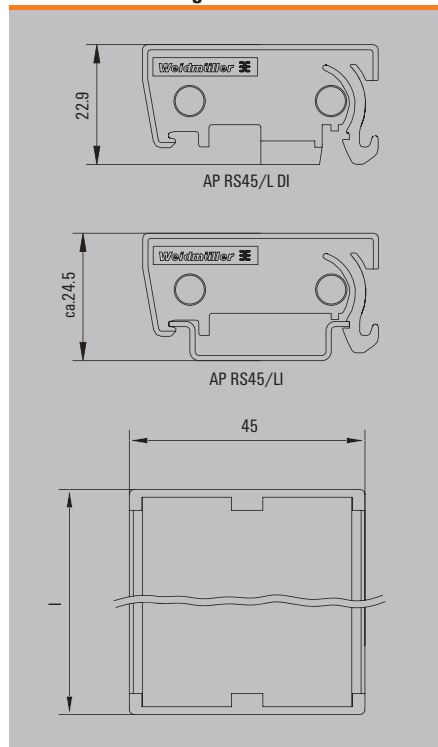
Size of ADP segment = PCB length - 1 mm

Example:

PCB length 160 mm,

RS = 155.5 mm, ADP = 159 mm

### Dimensioned drawing



### RS 45



### Technical data

General data	
Number of PCB per module	
Thickness of PCB	
Material	
Flammability class UL 94	
Colour of insulating material	
Note	

### Ordering data

Extruded profile	
2000 mm	orange
2000 mm	grey
1000 mm	grey
155 mm	orange
Intermediate piece	
5 mm	
15 mm	
25 mm	
30 mm	
45 mm	
End plate w. locking foot	
Without cover	grey, left version
	grey, right-hand version
	orange, left version
	orange, right-hand version
Locking foot	
	orange
	grey
With marking facilities	left version
	right version
Without marking facilities	left version
	right version
Central	Intermediate foot
End plate for direct mounting	
Without cover	grey, left version
	grey, right version
	orange
	grey
For medium-high cover profile	orange
	grey
For high cover profile	orange
	grey
End plate for mounting rail installation	
Without cover	orange
	grey
For medium-high cover profile	orange
	grey
For high cover profile	orange
	grey
Cover profile 1000 mm	Medium-high
	high
Screws	
Note	

1		
1.6 (± 0.2) mm		
PVC/PA		
V2		
beige		

Type		Qty.	Order No.
RF RS 45 OR 2000	VO	1	4340430000
PF RS 45 GR 2000	VO	1	4027750000
PF RS 45 GR 1000	VO	10	8140880000
AP 45/LI	V2	20	8143910000
AP 45/RE	V2	20	8143900000
AP 45/LI OR	V2	20	1011590000
AP 45/RE OR	V2	20	1011600000
AP 45/LI DI	V2	20	8140870000
AP 45/RE DI	V2	20	8140860000
ADP 1/HP1 1M	V2	1	0485200000
LKSC M2.9x13VZ		100	4011200000
Note			
Other lengths on request.			

## RS 70

Chassis Form:

Rail-mounted version

- 1 clip-on foot left
- 1 clip-on foot right
- 1 or more intermediate pieces
- 1 clip-on foot centre if required

### Description

Height: TS 32 = 33.5 mm, TS 35x7.5 = 29 mm

Dimensions of PCB:

Thickness: 1.6 (± 0.2) mm

Length: 67.8 (- 0.2) mm

Width of intermediate piece = PCB width - 2x9 mm (snap-on feet)

Example:

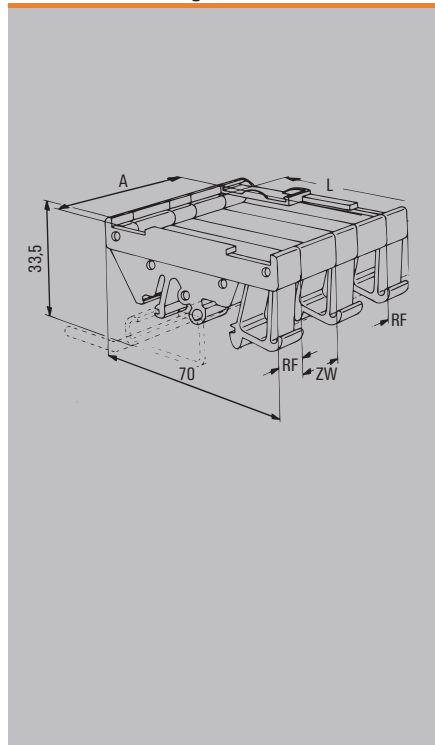
PCB width = 68 mm

Width of intermediate piece = 50 mm

Intermediate piece 2x ZW 25 RS or

ZW 45 RS + ZW 5 RS

### Dimensioned drawing



### Technical data

#### General data

Number of PCB per module	
Thickness of PCB	
Material	
Flammability class UL 94	
Colour of insulating material	

#### Note

### Ordering data

#### Extruded profile

2000 mm	orange
2000 mm	grey
1000 mm	grey
155 mm	orange

#### Intermediate piece

5 mm	
15 mm	
25 mm	
30 mm	
45 mm	

#### End plate w. locking foot

Without cover	grey, left version
	grey, right version

#### Locking foot

	orange
	grey
With marking facilities	left version
	right version
Without marking facilities	left version
	right version
Central	Intermediate foot

#### End plate for direct mounting

Without cover	grey, left version
	grey, right version
	orange
	grey
For medium-high cover profile	orange
	grey
For high cover profile	orange
	grey

#### End plate for mounting rail installation

Without cover	orange
	grey
For medium-high cover profile	orange
	grey
For high cover profile	orange
	grey

Cover profile	Medium-high
	high

Screws

#### Note

## RS 70



Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PA
Flammability class UL 94	V2
Colour of insulating material	orange

Type	Qty.	Order No.
ZW 5 RS OR	20	0119760000
ZW 15 RS OR	20	0119860000
ZW 25 RS OR	20	0126160000
ZW 30 RS OR	20	0119960000
ZW 45 RS OR	20	0120060000
RF RS 70 RE/A3/M.BEZ	20	0119560000
RF RS 70 LI/A2/O.SG	20	0119660000
RF RS 70 RE/A4/O.BEZ	20	0126260000
RF RS 70 MI/A6	20	0213760000



### RS 80

Housing installation (plus 4 screws):  
 Rail mounted variant (rail mounted assembly)

- 2 end plates for rail mounted assembly
- 2 or more locking feet
- 1 extruded profile
- 1 cover profile (optional)

Direct mounting variant

- 2 end plates, direct mounting
- 1 extruded profile
- 1 cover profile (optional)

### Description

3 heights are available for cover profile and end plates:

Rail mounting without cover:

TS 32 = 45 mm, TS 35x7.5 = 40.5 mm

Rail mounting with low cover:

TS 32 = 72 mm, TS 35x7.5 = 67.5 mm

Rail mounting with high cover:

TS 32 = 91 mm, TS 35x7.5 = 86.5 mm

Direct mounting without/low/high cover:

17 / 44 / 63 mm

Dimensions of PCB

Thickness: 1.6 (±0.2) mm, width:

67.8 (+0.2) mm

Size of RS segment = PCB length - 4.5 mm

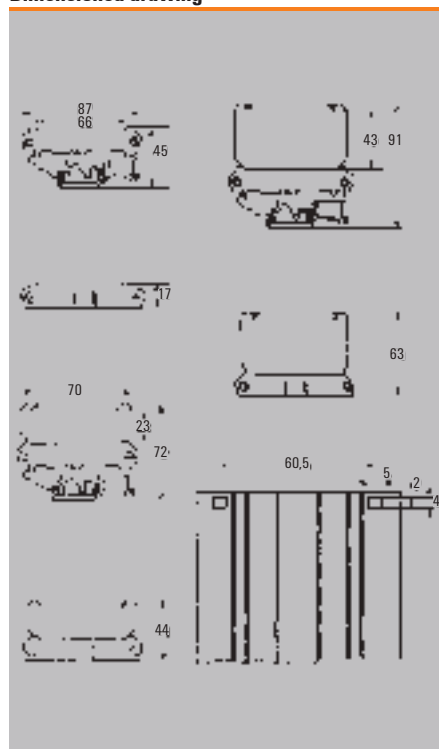
Size of ADP segment = PCB length - 2 mm

Example:

PCB length 160 mm

RS = 155.5 mm, ADP = 158 mm

### Dimensioned drawing



### RS 80



### Technical data

General data	
Number of PCB per module	
Thickness of PCB	
Material	
Flammability class UL 94	
Colour of insulating material	
Note	

### Ordering data

Extruded profile	
2000 mm	orange
2000 mm	grey
1000 mm	grey
155 mm	orange

Intermediate piece	
5 mm	
15 mm	
25 mm	
30 mm	
45 mm	

End plate w. locking foot	
Without cover	grey, left version grey, right version

Locking foot	
	orange grey
With marking facilities	left version right version
Without marking facilities	left version right version
Central	intermediate foot

End plate for direct mounting	
Without cover	grey, left version grey, right version

For medium-high cover profile	orange grey
For high cover profile	orange grey

End plate for mounting rail installation	
Without cover	orange grey
For medium-high cover profile	orange grey
For high cover profile	orange grey

Cover profile	1000 mm	Medium-high
	1000 mm	high
Screws		

Note	
------	--

	1
	1.6 (± 0.2) mm
	PVC/PA
	VO
	orange

Type	Qty.	Order No.
PF RS 80 OR 2000MM	VO 1	4157440000
PF RS 80 GR 2000MM	VO 1	4183130000

AP RF80 LI	V2 20	8156210000
AP RF80 RE	V2 20	8156200000
RF 180	20	1324460000
RF 180 GR	V2 20	1773400000

AP 80 D	V2 20	1324360000
AP 85 D	V2 20	1411060000
AP 86 D	V2 20	1411160000

AP 80	V2 20	1324260000
AP 80	V2 20	8320300000
AP 85	V2 20	1410860000
AP 86	20	1410960000

ADP 5	V2 1	4167150000
ADP 6	V2 1	4167160000
LKSC M2.9x13VZ	100	4011200000

Note	
Other lengths on request.	

## RS 90

Housing installation (plus 4 screws):

- 2 end plates
- 2 or more locking feet
- 1 extruded profile

### Description

Dimensions of PCB

Thickness: 1.6 (±0.2) mm, width: 79.8 (+0.2) mm

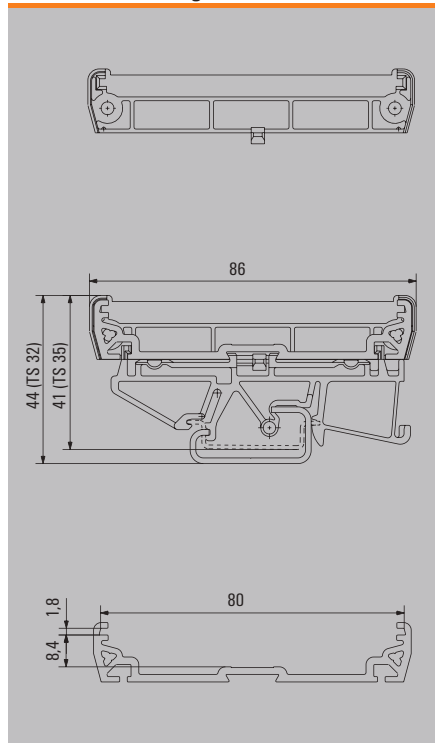
Size of RS segment = PCB length - 4.5 mm

Example:

PCB length 160 mm

RS = 155.5 mm

### Dimensioned drawing



### Technical data

#### General data

Number of PCB per module	
Thickness of PCB	
Material	
Flammability class UL 94	
Colour of insulating material	

#### Note

### Ordering data

Extruded profile	
2000 mm	orange
2000 mm	grey
1000 mm	grey
155 mm	orange

#### Intermediate piece

5 mm
15 mm
25 mm
30 mm
45 mm

#### End plate w. locking foot

Without cover	grey, left version
	grey, right version

#### Locking foot

	orange
	grey
With marking facilities	left version
	right version
Without marking facilities	left version
	right version
Central	intermediate foot

#### End plate for direct mounting

Without cover	grey, left version
	grey, right version
	orange
	grey
For medium-high cover profile	orange
	grey
For high cover profile	orange
	grey

#### End plate for mounting rail installation

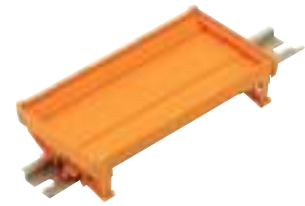
Without cover	orange
	grey
For medium-high cover profile	orange
	grey
For high cover profile	orange
	grey

Cover profile	Medium-high
	high

Screws	LKSC M2.9x13VZ
--------	----------------

#### Note

## RS 90



	1		
	1.6 (± 0.2) mm		
	PVC/PA		
	VO		
	orange		

Type		Qty.	Order No.
PF RS 90 OR 2000MM	VO	1	4053240000
PF RS 90 GR 2000MM	VO	1	4051810000

RF 180	V2	20	1324460000
RF 180 GR	V2	20	1773400000

AP 90 OR	V2	20	1961880000
AP 90 GR	V2	20	1961890000

LKSC M2.9x13VZ		100	4011200000
----------------	--	-----	------------

Other lengths on request.



### RS 100

Housing installation (plus 4 screws):  
Rail mounted variant (rail mounted assembly)

- 2 end plates for rail mounted assembly
- 2 or more locking feet
- 1 extruded profile
- 1 cover profile (optional)

Direct mounting variant

- 2 end plates, direct mounting
- 1 extruded profile
- 1 cover profile (optional)

### Description

3 heights are available for cover profile and end plates:

Rail mounting without cover:

TS 32 = 45 mm, TS 35x7.5 = 40.5 mm

Rail mounting with low cover:

TS 32 = 89 mm, TS 35x7.5 = 84.5 mm

Rail mounting with high cover:

TS 32 = 121 mm, TS 35x7.5 = 116.5 mm

Direct mounting without/low/high cover:

24 / 69 / 99 mm

Dimensions of PCB

Thickness: 1.6 (±0.2) mm, width:

100 (+0.5) mm

Size of RS segment = PCB length - 4.5 mm

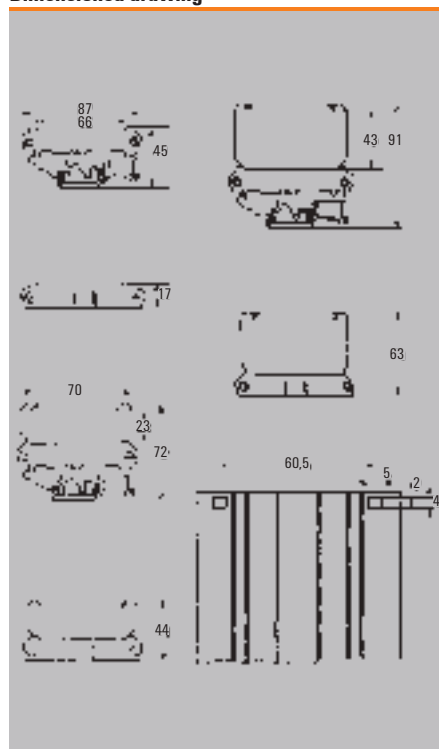
Size of ADP segment = PCB length - 1 mm

Example:

PCB length 160 mm

RS = 155.5 mm, ADP = 159 mm

### Dimensioned drawing



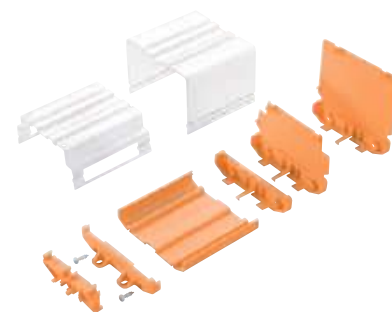
### Technical data

General data	
Number of PCB per module	
Thickness of PCB	
Material	
Flammability class UL 94	
Colour of insulating material	
Note	

### Ordering data

Extruded profile	
2000 mm	orange
2000 mm	grey
1000 mm	grey
155 mm	orange
Intermediate piece	
5 mm	
15 mm	
25 mm	
30 mm	
45 mm	
End plate w. locking foot	
Without cover	grey, left version grey, right version
Locking foot	
	orange grey
With marking facilities	left version right version
Without marking facilities	left version right version
Central	intermediate foot
End plate for direct mounting	
Without cover	grey, left version grey, right version orange grey
For medium-high cover profile	orange grey
For high cover profile	orange grey
End plate for mounting rail installation	
Without cover	orange grey
For medium-high cover profile	orange grey
For high cover profile	orange grey
Cover profile 2000 mm	Medium-high
2000 mm	high
Screws	
Note	

### RS 100



1		
1.6 (± 0.2) mm		
PVC/PA		
VO		
orange / grey (Black on request)		

Type	Qty.	Order No.
PF RS 100 OR 2000MM A.1 VO	1	4144870000
PF RS 100 GR 2000MM A.1 VO	1	4010870000
PF RS 100 A.1 OR 155.5 VO	25	4148400000
RF 180 V2	20	1324460000
RF 180 GR V2	20	1773400000
AP 100 D V2	20	1185160000
AP 110 D V2	10	1185360000
AP 111 D V2	10	1185560000
AP 100 V2	20	1185060000
AP 110 V2	10	1185260000
AP 111 V2	10	1185460000
ADP 10 V2	1	4169320000
ADP 11 V2	1	4169330000
PTSC KB40X14	100	4019420000
Other lengths on request.		



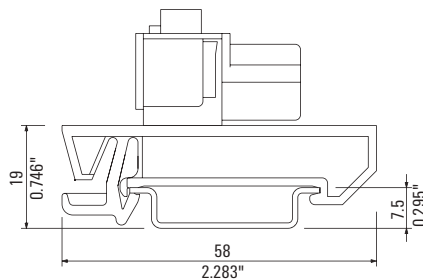
**MTA**

Snap-on foot for terminal rail



**MOFU**

Mounting foot



**WS 10/5**

**WS 12/5**

MultiCard marking



The MTA 45 mounting adapter enables many different modules to be securely attached to a terminal rail. The adapter, made of fibreglass-reinforced polyamide, ensures high stability and secure fixity to the terminal rail. It is assembled by simply clipping on, and disassembled by pushing up and tilting the module. No tools are required for this.

- WS 10/5 = 10 mm long x 5 mm wide
- WS 12/5 = 12 mm long x 5 mm wide
- Delivered as MultiCard 5 mats with 144 markers

**Ordering data**

Snap-on foot for TS 35		Black
Type	Qty.	Order No.
MTA 30 BK	45	1168970000
MTA 45 BK	30	1962250000

**Ordering data**

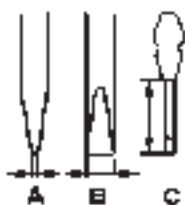
Colour		Black
Type	Qty.	Order No.
Mounting foot Mofu	20	0646210000

**Ordering data**

Type	Length mm	Order No.
WS 10/5	10	1635000000
WS 12/5	12	1609860000

**SDI**

**VDE-insulated slotted screwdriver**



- VDE-insulated slotted screwdriver, SDI**
- SDI DIN 7437, ISO 2380/2
  - Drive output acc. to DIN EN ISO/IEC 60900 and DIN ISO 2380

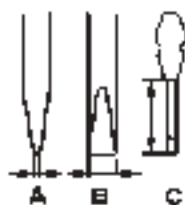


**Ordering data**

Type	Dims. (mm)	A	B	C	Order No.
SDI	0,4	2,5	75		2749790000
SDI	0,5	3,0	100		2749800000
SDI	0,6	3,5	100		2749810000
SDI	0,8	4,0	100		2749820000
SDI	1,0	4,5	125		2749830000
SDI	1,0	5,5	125		2749850000
SDI	1,2	6,5	150		2749860000
SDI	1,6	8,0	175		2749870000

**SD**

**Slotted screwdriver with round blade**



- Slotted screwdriver with round blade, SD**
- SD DIN 5265, DIN ISO 2380
  - Drive output acc. to DIN 5264, DIN ISO 2380/1
  - ChromTop tip

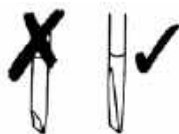


**Ordering data**

Type	Dims. (mm)	A	B	C	Order No.
SD	0,4	2,5	75		2749320000
SD	0,5	3,0	80		2749330000
SD	0,6	3,5	100		2749340000
SD	0,8	4,0	100		2749360000
SD	0,8	4,5	125		2749370000
SD	1,0	5,5	150		2749380000
SD	1,2	6,5	150		2749390000

**Tension clamp terminal tool**

**Tool for PCB terminals with tension clamp connection**



SD 0.6 x 3.5 x 100 (DIN 5264-A)

You do not need any special tool to connect or disconnect our tension clamp connection. The opening is designed to accommodate a standard 0.6 x 3.5 x 100 screwdriver 9008330000 to DIN 5264-A (with flat blade).

**SDK PH/PZ**

**Crosshead screwdriver**



- Crosshead screwdriver PH (Philips)**
- SDK PH DIN 5262, DIN ISO 8764-PH
  - Drive output acc. to DIN ISO 8764-PH
  - ChromTop tip



**Crosshead screwdriver PZ (Pozidrive)**

- SDK PZ DIN 5262, DIN ISO 8764-PZ
- Drive output acc. to DIN ISO 8764-PZ
- Chrome top tip



**Ordering data PH**

Type	Dims. (mm)	A	B	C	Order No.
SDK PH0	0			60	2749400000
SDK PH1	1			80	2749410000
SDK PH2	2			100	2749420000
SDK PH3	3			150	2749430000

**Ordering data PZ**

Type	Dims. (mm)	A	B	C	Order No.
SDK PZ1	1			80	2749440000
SDK PZ2	2			100	2749450000
SDK PZ3	3			150	2749460000