

**Technical  
data**

**You're striving towards new solutions  
We're presenting the best connections of 2016/17  
Let's connect.**



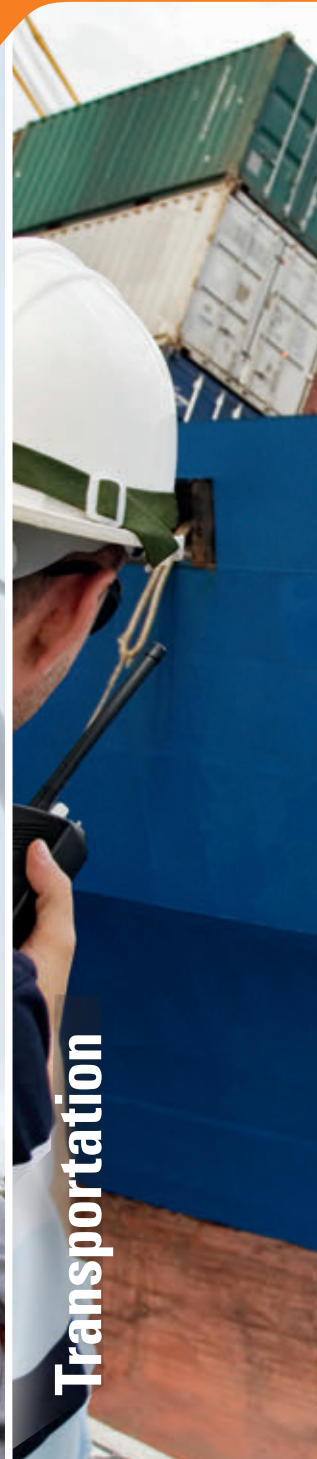
**Machinery**



**Process**



**Energy**



**Transportation**



**Device Manufacturers**



## Dear Customers,

The PDF versions of our catalogues offer practical additional functions, helping you to find your way around our product range and simplifying the ordering process.

In addition to the catalogue, the PDF also contains:

- Internal page links
- Links to the online catalogue

Try it out for yourself. Click the order number to obtain more detailed information and close-up images via you web browser. The links in the PDF file also enable you to go directly to the next desired catalogue page.

Further Weidmüller product catalogues can be accessed by clicking the following:



# News Highlights

## Connectivity



**T.6** **Standardised implementation of efficient solutions**  
The Klippon® Connect universal range

**T.30** **Safe supply for consumers in the panel**  
Efficient control voltage distribution with APD application solutions

**T.38** **Clear wiring for high-density signalling levels**  
With Klippon® Connect in the smallest of spaces



**T.132** **Make your connections fit for the future**  
With the advanced solutions from RockStar® ModuPlug



## Electronics and automation



**T.40** **Load monitoring and potential distribution combined**  
maxGUARD – taking control voltage distribution to a new level

**T.54** **Supplying power even under difficult environmental conditions**  
PROtop – the innovative power supply for demanding applications

**T.60** **Decentralised collection and forwarding of signals on the panel**  
u-remote Module in IP67: robust, versatile and flexible

## Device Connectivity



**T.152** **Safe and efficient connection of power electronics devices**  
New: LUF 10.00 with PUSH IN in accordance with UL 1059 for 600 V

### Electronics and automation



**T.61** Individual system adaptation taken effortlessly into production  
u-remote for unique flexible fieldbus architectures

**T.62** Exact measurement of weight, torque and oscillation  
Highly precise analysis of load cells with calibration function

**T.63** Simple integration of devices with a serial interface  
u-remote keeps your automation solutions flexible



**T.64** Position special remote I/O functions decentrally within the field  
FieldPower® enclosures bring the benefits of u-remote into the field

**T.66** Decentralised distribution of power in modular plant designs  
FieldPower® with selective protection of system modules

**T.68** Decentrally generate and distribute 24 V control voltages  
FieldPower® 10 A power supply for cabinet-free installation concepts

**T.70** Record electrical data of single consumers in real time  
Energy consumption measurement and monitoring with u-remote

**T.72** Measure energy consumption of production systems in detail  
Weidmüller energy measuring devices make energy efficiency transparent

**T.77** Holistic analysis of the quality of electrical supply networks  
Energy analysis devices for transparency and improved plant availability

**T.78** Provide measurement data efficiently and conveniently  
Our energy logger collects consumption and process data



**T.80** **Precisely measure and monitor AC and DC currents**  
ACT20P-CMT and CML current measuring transducers



**T.108** **Solve simple instrumentation and control tasks economically**  
Robust logic units for process automation in harsh environments



**T.82** **Targeted monitoring and optimisation of plants and processes**  
ACT20C station with current-measuring transducers

**T.110** **Improve the profitability of photovoltaic systems**  
Customer-specific combiner box up to 1,500 V

**T.84** **Quick and reliable monitoring of limit values**  
ACT20P limit monitoring relays for a wide range of applications



**T.112** **Detects faults in photovoltaic systems in good time**  
String monitoring device for 1,500 V DC photovoltaic systems

**T.88** **Accelerate installation and service in confined spaces**  
Compact DRI relays with robust, industry-compliant plug-in pins

**T.114** **Replace PLC5 systems efficiently and without downtimes**  
Front adapter and pre-mounted cable for PLC migration

**T.98** **Secure protection of power supplies in the American market**  
VARITECTOR PU II with new UL approval

**T.118** **Migrate IPC620 systems in the shortest time possible**  
Simple control system conversion with IPC620 carrier

**T.106** **Protect energy networks cost-effectively against overvoltage**  
VARITECTOR PU I Surge Protection in post-meter applications

**T.122** **Connect DCS and PLS systems quickly and reliably**  
Backplane systems for integrating electronic components

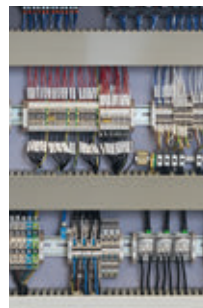
# News Overview

## Connectivity



**T.124** Simple power wiring up to 16 A and 630 V AC  
Pre-assembled M12 power cables in four codings: S, T, K and L

## Marking system



**T.154** Utilise the various options for system labelling  
MultiCard extensions for even greater consistency

**T.160** Marking systems for the entire cabinet  
MultiMark is the smart all-in-one solution

## Device Connectivity



**T.148** Use compact, functional connection solutions  
BLF 2.5/SL 2.5 PUSH IN device connectors



**T.165** Custom-fit labelling for your individual needs  
Quick and reliable labelling with MultiMark heat shrink





## Tools



**T.172** **Testing a wide range of system functions e-bikes.**  
Our instruments provide a helping hand with your electrical installation

## Service and support



**T.176** **Benefit from optimum support when using our new products**  
Service connects - worldwide

**T.177** **Product selection, application and configuration**  
Our service portal provides comprehensive support

**Experience the best connections of 2016/17 online on our innovations platform:**

**[www.weidmueller.com/best-connections](http://www.weidmueller.com/best-connections)**

Here, you will find our new products in the application with detailed product benefits – also available for download.

If you prefer an overview in printed form, you can also order the catalogue here under the following order no.:

**2472040000**

**Let's connect.**

We constantly offer up-to-date ordering data and technical details on our full range of products at:  
**[catalog.weidmueller.com](http://catalog.weidmueller.com)**

Technical data

Machinery

Process

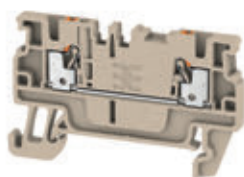
Energy

Transportation

Device Manufacturers

**A2C 1.5**

1.5 mm<sup>2</sup>



3.5 x 55 x 33.5  
**17.5 / 1.5**  
**0.14...1.5**



Width/Height/Depth mm  
 max. current / max. cond. cross-section A/mm<sup>2</sup>  
 Max. clamping range mm<sup>2</sup>

**Technical data**

Rated data	
Rated voltage	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
Note	

**Ordering data**

Version	
	dark beige
	blue
Note	

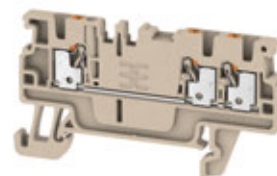
**Accessories**

Pluggable cross-connection	
	2-pole
	10-pole
	2-pole
	10-pole
End plate	
	dark beige
	Blue
End bracket	
	dark beige
	dark beige
Test adapter	
	1-pole
	3-pole
	5-pole
	stackable
Test plug	
Screwdriver	
	Standard
Identification systems	

For detailed information on other accessories and application in the online catalogue

**A3C 1.5**

1.5 mm<sup>2</sup>



3.5 x 61.5 x 33.5  
**17.5 / 1.5**  
**0.14...1.5**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500			
17.5			
1.5			
	6 kV / 3		
	A1 / V-0		
Rated connection			
0.5...1.5 / 0.5...1.5			
0.5...1.5 / 0.5...1.5			
8 / 0.4 x 2.0 mm			
Note			
Approval in progress			

Type	Qty.	Order No.
A3C 1.5	50	1552740000
A3C 1.5 BL	50	1552770000

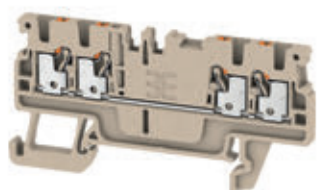
Type	current	Qty.	Order No.
ZQV 1.5N/2	17.5 A	60	1985410000
ZQV 1.5N/10	17.5 A	20	1985580000
AEP 3C 1.5		50	1552620000
AEP 3C 1.5 BL		50	1552630000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 1.5 MI-R		50	1991880000
PS 2.0 MC		20	0310000000
SDS 0.4X2.0X60		1	9037160000
WS 10/3.5 PLUS MC NE WS		960	2003760000
DEK 5/3.5 MM WS		1000	2007100000
WS 8/3.5 MM WS		1000	2007140000
DEK 5/3.5 PLUS MC NE WS		1600	2003750000

All MultiMark variants (MM) = strip markers

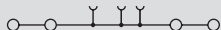
All MultiMark variants (MM) = strip markers

**A4C 1.5**

**1.5 mm<sup>2</sup>**



3.5 x 67.5 x 33.5  
**17.5 / 1.5**  
**0.14...1.5**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500			
17.5			
1.5			
6 kV / 3			
A1 / V-0			

**Rated connection**

0.5...1.5 / 0.5...1.5  
 0.5...1.5 / 0.5...1.5  
 8 / 0.4 x 2.0 mm

Approval in progress

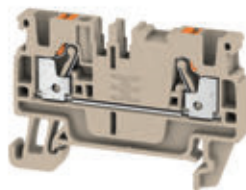
Type	Qty.	Order No.
A4C 1.5	100	1552690000
A4C 1.5 BL	100	1552700000

Type	current	Qty.	Order No.
ZQV 1.5N/2	17.5 A	60	1985410000
ZQV 1.5N/10	17.5 A	20	1985580000
AEP 4C 1.5		50	1552640000
AEP 4C 1.5 BL		50	1552650000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 1.5 MI-R		50	1991880000
PS 2.0 MC		20	0310000000
SDS 0.4x2.0x60		1	9037160000
WS 10/3.5 PLUS MC NE WS		960	2003760000
DEK 5/3.5 MM WS		1000	2007100000
WS 8/3.5 MM WS		1000	2007140000
DEK 5/3.5 PLUS MC NE WS		1600	2003750000

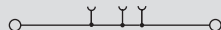
All MultiMark variants (MM) = strip markers

**A2C 2.5**

**2.5 mm<sup>2</sup>**



5.1 x 55 x 36.5  
**24 / 2.5**  
**0.14...2.5**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
8 kV / 3			
A3 / V-0			

**Rated connection**

0.5...2.5 / 0.5...2.5  
 0.5...2.5 / 0.5...2.5  
 10 / 0.6 x 3.5 mm

Approval in progress

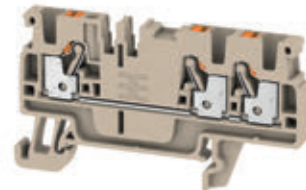
Type	Qty.	Order No.
A2C 2.5	100	1521850000
A2C 2.5 BL	100	1521880000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP 2C 2.5		50	1514400000
AEP 2C 2.5 BL		50	1514420000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0.6x3.5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

All MultiMark variants (MM) = strip markers

**A3C 2.5**

**2.5 mm<sup>2</sup>**



5.1 x 66.5 x 36.5  
**24 / 2.5**  
**0.14...2.5**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
8 kV / 3			
A3 / V-0			

**Rated connection**

0.5...2.5 / 0.5...2.5  
 0.5...2.5 / 0.5...2.5  
 10 / 0.6 x 3.5 mm

Approval in progress

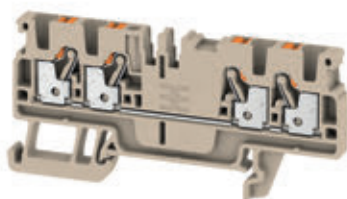
Type	Qty.	Order No.
A3C 2.5	100	1521740000
A3C 2.5 BL	100	1521780000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP 3C 2.5		50	1521510000
AEP 3C 2.5 BL		50	1521520000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0.6x3.5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

All MultiMark variants (MM) = strip markers

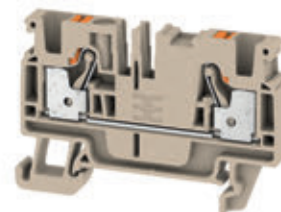
**A4C 2.5**

**2.5 mm<sup>2</sup>**



**A2C 4**

**4 mm<sup>2</sup>**



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

5.1 x 77.5 x 36.5	
<b>24 / 2.5</b>	
<b>0.14...2.5</b>	

6.1 x 60 x 39.5	
<b>32 / 4</b>	
<b>0.5...4</b>	

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

IEC 60947-7-1			
IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
8 kV / 3			
A3 / V-0			
<b>Rated connection</b>			
0.5...2.5 / 0.5...2.5			
0.5...2.5 / 0.5...2.5			
10 / 0.6 x 3.5 mm			
Approval in progress			

IEC 60947-7-1			
IEC	UL	CSA	EN 60079-7
800			
32			
4			
8 kV / 3			
A4 / V-0			
<b>Rated connection</b>			
0.5...4 / 0.5...4			
0.5...4 / 0.5...4			
12 / 0.6 x 3.5 mm			
Approval in progress			

**Ordering data**

<b>Version</b>	
	dark beige
	blue
<b>Note</b>	

Type	Qty.	Order No.
A4C 2.5	100	1521690000
A4C 2.5 BL	100	1521700000

Type	Qty.	Order No.
A2C 4	100	2051180000
A2C 4 BL	100	2051210000

**Accessories**

<b>Pluggable cross-connection</b>	
	2-pole
	10-pole
	2-pole
	10-pole
<b>End plate</b>	
	dark beige
	Blue
<b>End bracket</b>	
	dark beige
	dark beige
<b>Test adapter</b>	
	1-pole
	3-pole
	5-pole
	stackable
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP 4C 2.5		50	1521530000
AEP 4C 2.5 BL		50	1521640000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MHR		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

Type	current	Qty.	Order No.
ZQV 4N/2	32 A	60	1527930000
ZQV 4N/10	32 A	20	1528090000
AEP 2C 4		50	2051680000
AEP 2C 4 BL		50	2051690000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 4 MHR		50	1991860000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
WS 10/6 M PLUS MC NE WS		600	2003780000
DEK 5/6 MM WS		600	2007120000
WS 8/6 MM WS		600	2007160000
DEK 5/6 PLUS MC NE WS		1000	1011320000

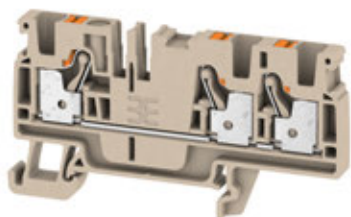
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

**A3C 4**

**4 mm<sup>2</sup>**



6.1 x 74 x 39.5  
**32 / 4**  
**0.5...4**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800			
32			
4			
	8 kV / 3		
	A4 / V-0		

**Rated connection**

0.5...4 / 0.5...4  
 0.5...4 / 0.5...4  
 12 / 0.6 x 3.5 mm

Approval in progress

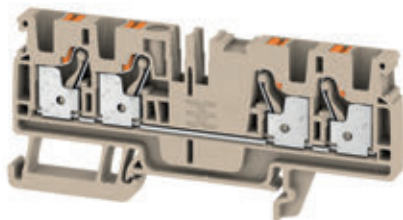
Type	Qty.	Order No.
A3C 4	50	2051240000
A3C 4 BL	50	2051280000

Type	current	Qty.	Order No.
ZQV 4N/2	32 A	60	1527930000
ZQV 4N/10	32 A	20	1528090000
AEP 3C 4		20	2051720000
AEP 3C 4 BL		20	2051880000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 4 M-R		50	1991860000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
WS 10/6 M PLUS MC NE WS		600	2003780000
DEK 5/6 MM WS		600	2007120000
WS 8/6 MM WS		600	2007160000
DEK 5/6 PLUS MC NE WS		1000	1011320000

All MultiMark variants (MM) = strip markers

**A4C 4**

**4 mm<sup>2</sup>**



6.1 x 87.5 x 39.5  
**32 / 4**  
**0.5...4**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800			
32			
4			
	8 kV / 3		
	A4 / V-0		

**Rated connection**

0.5...4 / 0.5...4  
 0.5...4 / 0.5...4  
 12 / 0.6 x 3.5 mm

Approval in progress

Type	Qty.	Order No.
A4C 4	50	2051500000
A4C 4 BL	50	2051520000

Type	current	Qty.	Order No.
ZQV 4N/2	32 A	60	1527930000
ZQV 4N/10	32 A	20	1528090000
AEP 4C 4		20	2051900000
AEP 4C 4 BL		20	2051910000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 4 M-R		50	1991860000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
WS 10/6 M PLUS MC NE WS		600	2003780000
DEK 5/6 MM WS		600	2007120000
WS 8/6 MM WS		600	2007160000
DEK 5/6 PLUS MC NE WS		1000	1011320000

All MultiMark variants (MM) = strip markers



Technical data

Machinery

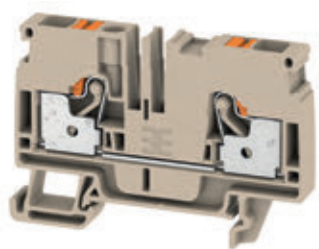
Process

Energy

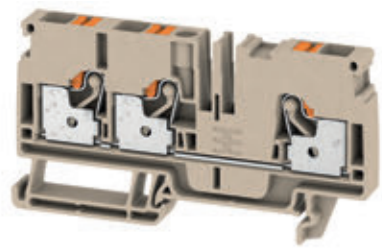
Transportation

Device Manufacturers

**A2C 6** **6 mm<sup>2</sup>**



**A3C 6** **6 mm<sup>2</sup>**



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

8.1 x 66.5 x 45.5
<b>41 / 6</b>
<b>0.5...6</b>

8.1 x 84.5 x 45.5
<b>41 / 6</b>
<b>0.5...6</b>

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

IEC 60947-7-1			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
800	600		
41	38		
6	AWG 22...8		
8 kV / 3			
A5 / V-0			
<b>Rated connection</b>			
0.5...6 / 0.5...6			
0.5...6 / 0.5...6			
12 / 1.0 x 5.5 mm			
Approval in progress			

IEC 60947-7-1			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
800	600		
41	38		
6	AWG 22...8		
8 kV / 3			
A5 / V-0			
<b>Rated connection</b>			
0.5...6 / 0.5...6			
0.5...6 / 0.5...6			
12 / 1.0 x 5.5 mm			
Approval in progress			

**Ordering data**

<b>Version</b>	
	dark beige
	blue
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A2C 6	50	<b>1992110000</b>
A2C 6 BL	50	<b>1991790000</b>

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A3C 6	50	<b>1991820000</b>
A3C 6 BL	50	<b>1991830000</b>

**Accessories**

<b>Pluggable cross-connection</b>	
	2-pole
	4-pole
	10-pole
<b>End plate</b>	
	dark beige
	Blue
<b>End bracket</b>	
	dark beige
	dark beige
<b>Test adapter</b>	
	1-pole
	stackable
<b>Test plug</b>	
<b>Screwdriver</b>	
	Standard
<b>Identification systems</b>	

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
ZQV 6N/2	41 A	60	<b>1985740000</b>
ZQV 6N/4	41 A	60	<b>1985780000</b>
ZQV 4N/10	32 A	20	<b>1528090000</b>
<b>End plate</b>			
AEP 2C 6		50	<b>1991970000</b>
AEP 2C 6 BL		50	<b>1991950000</b>
<b>End bracket</b>			
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
<b>Test adapter</b>			
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 6 M/R		50	<b>1991930000</b>
<b>Test plug</b>			
PS 2.0 MC		20	<b>0310000000</b>
<b>Screwdriver</b>			
SDIL 1,0x5,5x125		1	<b>9042130000</b>
<b>Identification systems</b>			
DEK-A 5/8 MM WS		500	<b>2448860000</b>
WS-A 8/8 MM WS		500	<b>2448930000</b>
DEK 5/8 PLUS MC NE WS		800	<b>1046350000</b>
WS 8/6 MM WS		600	<b>2007160000</b>

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
ZQV 6N/2	41 A	60	<b>1985740000</b>
ZQV 6N/4	41 A	60	<b>1985780000</b>
<b>End plate</b>			
AEP 3C 6		50	<b>1991940000</b>
AEP 3C 6 BL		50	<b>1991910000</b>
<b>End bracket</b>			
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
<b>Test adapter</b>			
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 6 M/R		50	<b>1991930000</b>
<b>Test plug</b>			
PS 2.0 MC		20	<b>0310000000</b>
<b>Screwdriver</b>			
SDIL 1,0x5,5x125		1	<b>9042130000</b>
<b>Identification systems</b>			
DEK-A 5/8 MM WS		500	<b>2448860000</b>
WS-A 8/8 MM WS		500	<b>2448930000</b>
DEK 5/8 PLUS MC NE WS		800	<b>1046350000</b>

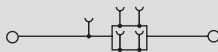
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

ALO 6

6 mm<sup>2</sup>



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

9 x 77 x 45.5  
**41 / 6**  
**0.5...6**

**Technical data**

Rated data	
Rated voltage	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800	600		
41	38		
6	AWG 22...8		
		8 kV / 3	
		A5 / V-0	

Rated connection	
0.5...6 / 0.5...6	
0.5...6 / 0.5...6	
12 / 1.0 x 5.5 mm	

**Note**

Approval in progress

**Ordering data**

Version	
	dark beige
	blue

**Note**

Type	Qty.	Order No.
ALO 6	20	1991780000
ALO 6 BL	20	2065120000

**Accessories**

Pluggable cross-connection	
	2-pole
	10-pole
	2-pole
	10-pole
End bracket	
	dark beige
	dark beige
Test plug	
Screwdriver	
	Standard
Identification systems	

Type	current	Qty.	Order No.
ZQV 1.5N/2	17.5 A	60	1985410000
ZQV 1.5N/10	17.5 A	20	1985580000
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
<b>End bracket</b>			
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
<b>Test plug</b>			
PS 2.0 MC		20	0310000000
<b>Screwdriver</b>			
SDIL 1,0x5,5x125		1	9042130000
<b>Identification systems</b>			
WS 7.8/9.2 PLUS MC NE GR		360	1208970000

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers



Technical data

Machinery

Process

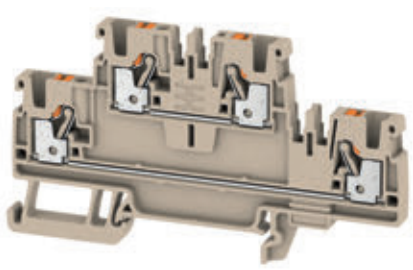
Energy

Transportation

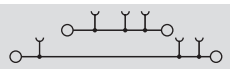
Device Manufacturers

**A2T 2.5**

**2.5 mm<sup>2</sup>**

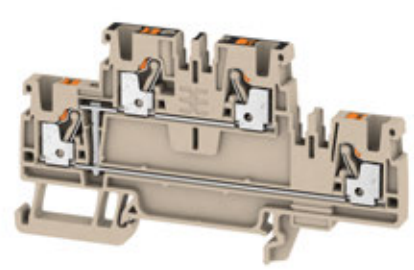


5.1 x 90 x 50.5  
**24 / 2.5**  
**0.14...2.5**



**A2T 2.5 VL**

**2.5 mm<sup>2</sup>**



5.1 x 90 x 50.5  
**24 / 2.5**  
**0.14...2.5**



Width/Height/Depth mm  
 max. current / max. cond. cross-section A/mm<sup>2</sup>  
 Max. clamping range mm<sup>2</sup>

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
8 kV / 3			
A3 / V-0			

**Rated connection**

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
8 kV / 3			
A3 / V-0			

**Rated connection**

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

**Ordering data**

Version	
	dark beige
	blue
<b>Note</b>	

Type	Qty.	Order No.
A2T 2.5	50	1547610000
A2T 2.5 BL	50	1547620000

Type	Qty.	Order No.
A2T 2.5 VL	50	1547650000
A2T 2.5 VL BL	50	1547660000

**Accessories**

Pluggable cross-connection	
	2-pole
	50-pole
<b>End plate</b>	
	dark beige
	blue
<b>End bracket</b>	
	dark beige
	dark beige
<b>Test adapter</b>	
	1-pole
	stackable
<b>Test plug</b>	
<b>Screwdriver</b>	
	Standard
<b>Identification systems</b>	

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/50	24 A	5	1527730000
<b>End plate</b>			
AEP 2T 2.5		20	1547690000
AEP 2T 2.5 BL		20	1547700000
<b>End bracket</b>			
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
<b>Test adapter</b>			
<b>Test plug</b>			
PS 2.0 MC		20	0310000000
<b>Screwdriver</b>			
SDIL 0,6x3,5x100		1	9042110000
<b>Identification systems</b>			
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000
SNAPMARK I		50	1805880000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/50	24 A	5	1527730000
<b>End plate</b>			
AEP 2T 2.5		20	1547690000
AEP 2T 2.5 BL		20	1547700000
<b>End bracket</b>			
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
<b>Test adapter</b>			
<b>Test plug</b>			
PS 2.0 MC		20	0310000000
<b>Screwdriver</b>			
SDIL 0,6x3,5x100		1	9042110000
<b>Identification systems</b>			
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000
SNAPMARK I		50	1805880000

For detailed information on other accessories and application in the online catalogue

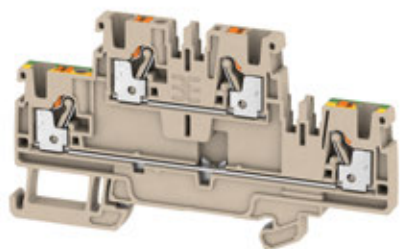
All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

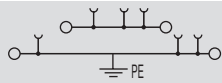


**A2T 2.5 FT-PE**

**2.5 mm<sup>2</sup>**



5.1 x 90 x 50.5  
**24 / 2.5**  
**0.14...2.5**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
8 kV / 3			
A3 / V-0			



**Rated connection**

0.5...2.5 / 0.5...2.5  
 0.5...2.5 / 0.5...2.5  
 10 / 0.6 x 3.5 mm

Approval in progress

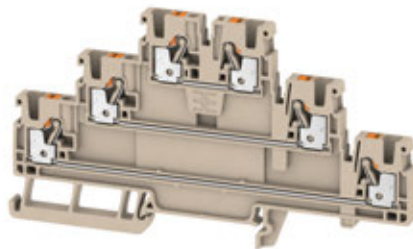
Type	Qty.	Order No.
A2T 2.5 FT-PE	50	<b>1547640000</b>

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/50	24 A	5	<b>1527730000</b>
AEP 2T 2.5		20	<b>1547690000</b>
AEP 2T 2.5 BL		20	<b>1547700000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35/2		20	<b>8630740000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 2.5 MI-R		50	<b>1991960000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 0,6x3,5x100		1	<b>9042110000</b>
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>
SNAPMARK I		50	<b>1805880000</b>

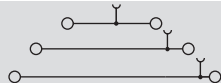
All MultiMark variants (MM) = strip markers

**A3T 2.5**

**2.5 mm<sup>2</sup>**



5.1 x 116 x 64.5  
**21 / 2.5**  
**0.14...2.5**



DIN EN 60947-7-1

IEC	UL	CSA	EN 60079-7
800			
21			
2.5			
8 kV / 3			
A3 / V-0			

**Rated connection**

0.5...2.5 / 0.5...2.5  
 0.5...2.5 / 0.5...2.5  
 10 / 0.6 x 3.5 mm

Approval in progress

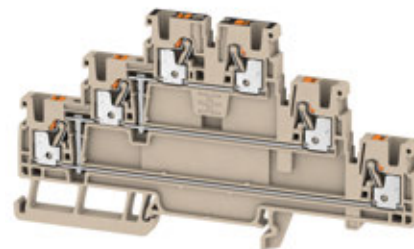
Type	Qty.	Order No.
A3T 2.5	50	<b>2428510000</b>
A3T 2.5 BL	50	<b>2428520000</b>

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/50	24 A	5	<b>1527730000</b>
AEP 3T 2.5		20	<b>2428560000</b>
AEP 3T 2.5 BL		20	<b>2428860000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35/2		20	<b>8630740000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 0,6x3,5x100		1	<b>9042110000</b>
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>
SNAPMARK I		50	<b>1805880000</b>

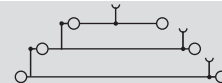
All MultiMark variants (MM) = strip markers

**A3T 2.5 VL**

**2.5 mm<sup>2</sup>**



5.1 x 116 x 64.5  
**21 / 2.5**  
**0.14...2.5**



DIN EN 60947-7-1

IEC	UL	CSA	EN 60079-7
800			
21			
2.5			
8 kV / 3			
A3 / V-0			

**Rated connection**

0.5...2.5 / 0.5...2.5  
 0.5...2.5 / 0.5...2.5  
 10 / 0.6 x 3.5 mm

Approval in progress

Type	Qty.	Order No.
A3T 2.5 VL	25	<b>2428540000</b>
A3T 2.5 VL BL	25	<b>2428850000</b>

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/50	24 A	5	<b>1527730000</b>
AEP 3T 2.5		20	<b>2428560000</b>
AEP 3T 2.5 BL		20	<b>2428860000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35/2		20	<b>8630740000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 0,6x3,5x100		1	<b>9042110000</b>
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>
SNAPMARK I		50	<b>1805880000</b>

All MultiMark variants (MM) = strip markers



Technical data

Machinery

Process

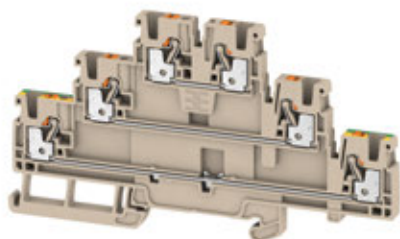
Energy

Transportation

Device Manufacturers

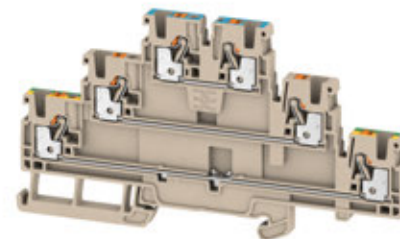
**A3T 2.5 FT-FT-PE**

**2.5 mm<sup>2</sup>**



**A3T 2.5 N-FT-PE**

**2.5 mm<sup>2</sup>**



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

**Ordering data**

<b>Version</b>	dark beige blue
<b>Note</b>	

**Accessories**

<b>Pluggable cross-connection</b>	2-pole 50-pole
<b>End plate</b>	dark beige blue
<b>End bracket</b>	dark beige dark beige
<b>Test adapter</b>	1-pole stackable
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

DIN EN 60947-7-1, DIN EN 60947-7-2

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
800			
21			
2.5			
		8 kV / 3	
		A3 / V-0	
<b>Rated connection</b>			
0.5...2.5 / 0.5...2.5			
0.5...2.5 / 0.5...2.5			
10 / 0.6 x 3.5 mm			
<b>Note</b>			
Approval in progress			

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A3T 2.5 FT-FT-PE	50	2428530000

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/50	24 A	5	1527730000
AEP 3T 2.5		20	2428560000
AEP 3T 2.5 BL		20	2428860000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5 MHR		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000
SNAPMARK I		50	1805880000

DIN EN 60947-7-1, DIN EN 60947-7-2

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
800			
21			
2.5			
		8 kV / 3	
		A3 / V-0	
<b>Rated connection</b>			
0.5...2.5 / 0.5...2.5			
0.5...2.5 / 0.5...2.5			
10 / 0.6 x 3.5 mm			
<b>Note</b>			
Approval in progress			

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A3T 2.5 N-FT-PE	50	2428840000

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/50	24 A	5	1527730000
AEP 3T 2.5		20	2428560000
AEP 3T 2.5 BL		20	2428860000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5 MHR		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000
SNAPMARK I		50	1805880000

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All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers



**A2C 1.5 PE**

**1.5 mm<sup>2</sup>**



**A3C 1.5 PE**

**1.5 mm<sup>2</sup>**



Width/Height/Depth	mm
max. current / max. cond. cross-section	-/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

3.5 x 55 x 33.5	
/ 1.5	
<b>0.14...1.5</b>	

3.5 x 61.5 x 33.5	
/ 1.5	
<b>0.14...1.5</b>	

**Technical data**

<b>Rated data</b>	
for wire cross-section	mm <sup>2</sup>
Rated voltage to adjoining terminal	V
Rated impulse withstand voltage to adjacent terminal	kV
Rated short-time current	
Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

IEC 60947-7-2			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1.5			
500			
6			
	180 A (1.5 mm <sup>2</sup> )		
	3		
	A1 / V-0		
<b>Rated connection</b>			
0.5...1.5 / 0.5...1.5			
0.5...1.5 / 0.5...1			
8 / 0.4 x 2.0 mm			
Approval in progress			

IEC 60947-7-2			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1.5			
500			
6			
	180 A (1.5 mm <sup>2</sup> )		
	3		
	A1 / V-0		
<b>Rated connection</b>			
0.5...1.5 / 0.5...1.5			
0.5...1.5 / 0.5...1			
8 / 0.4 x 2.0 mm			
Approval in progress			

**Ordering data**

<b>Version</b>	green/yellow
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A2C 1.5 PE	50	<b>1552680000</b>

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A3C 1.5 PE	100	<b>1552670000</b>

**Accessories**

<b>End plate</b>	dark beige
<b>End bracket</b>	dark beige
<b>Test adapter</b>	1-pole 3-pole 5-pole stackable
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
AEP 2C 1.5		50	<b>1552600000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 1.5 MI-R		50	<b>1991880000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDS 0.4X2.0X60		1	<b>9037160000</b>
WS 10/3.5 PLUS MC NE WS		960	<b>2003760000</b>
DEK 5/3.5 MM WS		1000	<b>2007100000</b>
WS 8/3.5 MM WS		1000	<b>2007140000</b>
DEK 5/3.5 PLUS MC NE WS		1600	<b>2003750000</b>

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
AEP 3C 1.5		50	<b>1552620000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 1.5 MI-R		50	<b>1991880000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDS 0.4X2.0X60		1	<b>9037160000</b>
WS 10/3.5 PLUS MC NE WS		960	<b>2003760000</b>
DEK 5/3.5 MM WS		1000	<b>2007100000</b>
WS 8/3.5 MM WS		1000	<b>2007140000</b>
DEK 5/3.5 PLUS MC NE WS		1600	<b>2003750000</b>

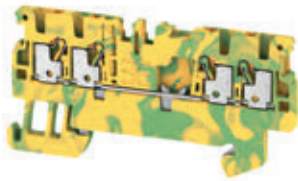
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

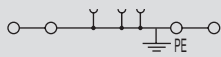
All MultiMark variants (MM) = strip markers

**A4C 1.5 PE**

**1.5 mm<sup>2</sup>**



3.5 x 67.5 x 33.5  
/ 1.5  
0.14...1.5



IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
1.5			
500			
6			
	180 A (1.5 mm <sup>2</sup> )		
	3		
	A1 / V-0		

**Rated connection**

0.5...1.5 / 0.5...1.5  
0.5...1.5 / 0.5...1  
8 / 0.4 x 2.0 mm

Approval in progress

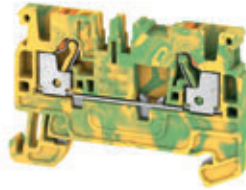
Type	Qty.	Order No.
A4C 1.5 PE	50	1552660000

Type	current	Qty.	Order No.
AEP 4C 1.5		50	1552640000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 1.5 MI-R		50	1991880000
PS 2.0 MC		20	0310000000
SDS 0.4X2.0X60		1	9037160000
WS 10/3.5 PLUS MC NE WS		960	2003760000
DEK 5/3.5 MM WS		1000	2007100000
WS 8/3.5 MM WS		1000	2007140000
DEK 5/3.5 PLUS MC NE WS		1600	2003750000

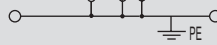
All MultiMark variants (MM) = strip markers

**A2C 2.5 PE**

**2.5 mm<sup>2</sup>**



5.1 x 55 x 36.5  
/ 2.5  
0.14...2.5



IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
2.5	AWG 28...12		
800			
8			
	300 A (2.5 mm <sup>2</sup> )		
	3		
	A3 / V-0		

**Rated connection**

0.5...2.5 / 0.5...2.5  
0.5...2.5 / 0.5...2.5  
10 / 0.6 x 3.5 mm

Approval in progress

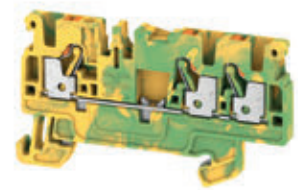
Type	Qty.	Order No.
A2C 2.5 PE	50	1521680000

Type	current	Qty.	Order No.
AEP 2C 2.5		50	1514400000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

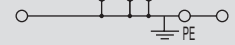
All MultiMark variants (MM) = strip markers

**A3C 2.5 PE**

**2.5 mm<sup>2</sup>**



5.1 x 66.5 x 36.5  
/ 2.5  
0.14...2.5



IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
2.5	AWG 28...12		
800			
8			
	300 A (2.5 mm <sup>2</sup> )		
	3		
	A3 / V-0		

**Rated connection**

0.5...2.5 / 0.5...2.5  
0.5...2.5 / 0.5...2.5  
10 / 0.6 x 3.5 mm

Approval in progress

Type	Qty.	Order No.
A3C 2.5 PE	50	1521670000

Type	current	Qty.	Order No.
AEP 3C 2.5		50	1521510000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

All MultiMark variants (MM) = strip markers



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

**A4C 2.5 PE**

**2.5 mm<sup>2</sup>**



Width/Height/Depth	mm
max. current / max. cond. cross-section	-/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

5.1 x 77.5 x 36.5
<b>/ 2.5</b>
<b>0.14...2.5</b>

**Technical data**

<b>Rated data</b>	
for wire cross-section	mm <sup>2</sup>
Rated voltage to adjoining terminal	V
Rated impulse withstand voltage to adjacent terminal	kV
Rated short-time current	
Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
2.5	AWG 28...12		
800			
8			
	300 A (2.5 mm <sup>2</sup> )		
	3		
	A3 / V-0		

**Rated connection**

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

**Ordering data**

Version	green/yellow
<b>Note</b>	

Type	Qty.	Order No.
A4C 2.5 PE	50	<b>1521540000</b>

**Accessories**

<b>End plate</b>	dark beige
<b>End bracket</b>	dark beige
<b>Test adapter</b>	1-pole 3-pole 5-pole stackable
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

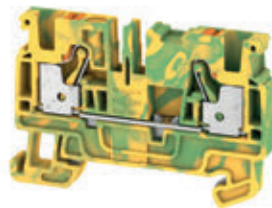
Type	current	Qty.	Order No.
AEP 4C 2.5		50	<b>1521530000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 2.5/3		25	<b>2041190000</b>
ATPG 2.5/5		25	<b>2041180000</b>
ATPG 2.5 MHR		50	<b>1991960000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 0,6x3,5x100		1	<b>9042110000</b>
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

**A2C 4 PE**

**4 mm<sup>2</sup>**



Width/Height/Depth mm  
max. current / max. cond. cross-section -/mm<sup>2</sup>  
Max. clamping range mm<sup>2</sup>

**Technical data**

<b>Rated data</b>	
for wire cross-section	mm <sup>2</sup>
Rated voltage to adjoining terminal	V
Rated impulse withstand voltage to adjacent terminal	kV
Rated short-time current	
Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	

<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-

**Note**

**Ordering data**

<b>Version</b>	green/yellow
<b>Note</b>	

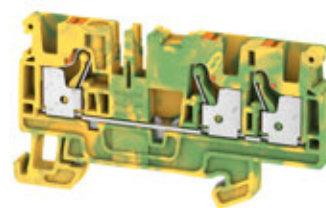
**Accessories**

<b>End plate</b>	dark beige
<b>End bracket</b>	dark beige dark beige
<b>Test adapter</b>	1-pole stackable
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

For detailed information on other accessories and application in the online catalogue

**A3C 4 PE**

**4 mm<sup>2</sup>**



**Technical data**

IEC 60947-7-2			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
4			
800			
8			
	480 A (4 mm <sup>2</sup> )		
	3		
	A4 / V-0		

<b>Rated connection</b>			
0.5...4 / 0.5...4			
0.5...4 / 0.5...4			
12 / 0.6 x 3.5 mm			

**Note**

**Ordering data**

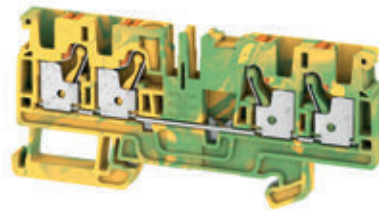
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A3C 4 PE	50	2051410000

Type	current	Qty.	Order No.
AEP 2C 4		50	2051680000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 4 M-R		50	1991860000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/6 PLUS MC NE WS	1000		1011320000
WS 10/6 M PLUS MC NE WS	600		2003780000
DEK 5/6 MM WS	600		2007120000
WS 8/6 MM WS	600		2007160000

All MultiMark variants (MM) = strip markers

**A4C 4 PE**

**4 mm<sup>2</sup>**



**A2C 6 PE**

**6 mm<sup>2</sup>**



Width/Height/Depth	mm
max. current / max. cond. cross-section	-/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

6.1 x 87.5 x 39.5	
/ 4	
<b>0.5...4</b>	

8.1 x 66.5 x 45.5	
/ 6	
<b>0.5...6</b>	

**Technical data**

<b>Rated data</b>	
for wire cross-section	mm <sup>2</sup>
Rated voltage to adjoining terminal	V
Rated impulse withstand voltage to adjacent terminal	kV
Rated short-time current	
Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

IEC 60947-7-2			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
4			
800			
8			
	480 A (4 mm <sup>2</sup> )		
	3		
	A4 / V-0		
<b>Rated connection</b>			
0.5...4 / 0.5...4			
0.5...4 / 0.5...4			
12 / 0.6 x 3.5 mm			
Approval in progress			

IEC 60947-7-2			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
6	AWG 22...8		
800			
8			
	720 A (6 mm <sup>2</sup> )		
	3		
	A5 / V-0		
<b>Rated connection</b>			
0.5...6 / 0.5...6			
0.5...6 / 0.5...6			
12 / 1.0 x 5.5 mm			
Approval in progress			

**Ordering data**

<b>Version</b>	green/yellow
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A4C 4 PE	50	<b>2051560000</b>

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A2C 6 PE	50	<b>1991810000</b>

**Accessories**

<b>End plate</b>	dark beige
<b>End bracket</b>	dark beige
<b>Test adapter</b>	1-pole stackable
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
AEP 4C 4		20	<b>2051900000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 4 M-R		50	<b>1991860000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 0,6x3,5x100		1	<b>9042110000</b>
DEK 5/6 PLUS MC NE WS		1000	<b>1011320000</b>
WS 10/6 M PLUS MC NE WS		600	<b>2003780000</b>
DEK 5/6 MM WS		600	<b>2007120000</b>
WS 8/6 MM WS		600	<b>2007160000</b>

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
AEP 2C 6		50	<b>1991970000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 6 M-R		50	<b>1991930000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 1,0x5,5x125		1	<b>9042130000</b>
WS-A 8/8 MM WS		500	<b>2448930000</b>
DEK-A 5/8 MM WS		500	<b>2448860000</b>
DEK 5/8 PLUS MC NE WS		800	<b>1046350000</b>

For detailed information on other accessories and application in the online catalogue

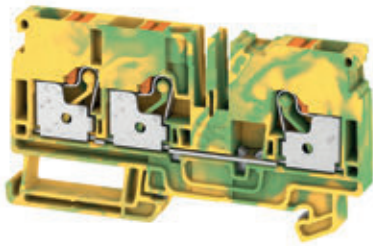
All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

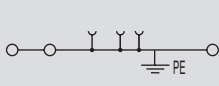


**A3C 6 PE**

**6 mm<sup>2</sup>**



8.1 x 84.5 x 45.5  
/ 6  
0.5...6



IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
6	AWG 22...8		
800			
8			
	720 A (6 mm <sup>2</sup> )		
	3		
	A5 / V-0		

**FA**

**Rated connection**

0.5...6 / 0.5...6  
0.5...6 / 0.5...6  
12 / 1.0 x 5.5 mm

Approval in progress

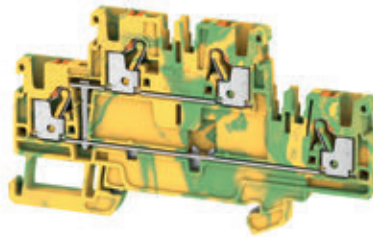
Type	Qty.	Order No.
A3C 6 PE	50	1991850000

Type	current	Qty.	Order No.
AEP 3C 6		50	1991940000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 6 MI-R		50	1991930000
PS 2.0 MC		20	0310000000
SDIL 1,0x5,5x125		1	9042130000
WS-A 8/8 MM WS		500	2448930000
DEK-A 5/8 MM WS		500	2448860000
DEK 5/8 PLUS MC NE WS		800	1046350000

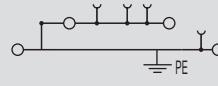
All MultiMark variants (MM) = strip markers

**A2T 2.5 PE**

**2.5 mm<sup>2</sup>**



5.1 x 90 x 50.5  
/ 2.5  
0.14...2.5



IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
2.5	AWG 28...12		
800			
8			
	300 A (2.5 mm <sup>2</sup> )		
	3		
	A3 / V-0		

**FA**

**Rated connection**

0.5...2.5 / 0.5...2.5  
0.5...2.5 / 0.5...2.5  
10 / 0.6 x 3.5 mm

Approval in progress

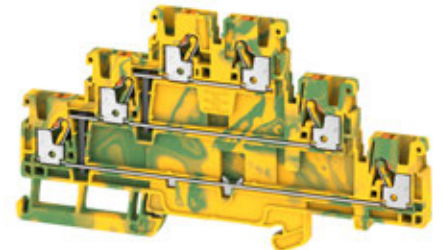
Type	Qty.	Order No.
A2T 2.5 PE	50	1547680000

Type	current	Qty.	Order No.
AEP 2T 2.5		20	1547690000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
WS 10/5 M PLUS MC NE WS		600	2003770000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000

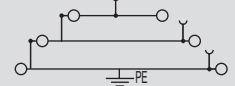
All MultiMark variants (MM) = strip markers

**A3T 2.5 PE**

**2.5 mm<sup>2</sup>**



5.1 x 116 x 64.5  
21 / 2.5  
0.14...2.5



DIN EN 60947-7-2

IEC	UL	CSA	EN 60079-7
2.5			
800			
8			
	300 A (2.5 mm <sup>2</sup> )		
	3		
	A3 / V-0		

**Rated connection**

0.5...2.5 / 0.5...2.5  
0.5...2.5 / 0.5...2.5  
10 / 0.6 x 3.5 mm

Approval in progress

Type	Qty.	Order No.
A3T 2.5 PE	50	2428550000

Type	current	Qty.	Order No.
AEP 3T 2.5		20	2428560000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
WS 10/5 M PLUS MC NE WS		600	2003770000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

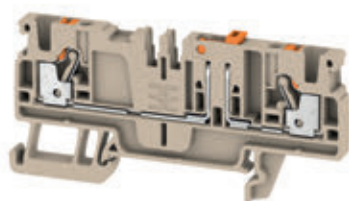
Energy

Transportation

Device Manufacturers

**ADT 2.5 2C**

2.5 mm<sup>2</sup>



5.1 x 77.5 x 37.65  
**20 / 2.5**  
**0.14...2.5**



Width/Height/Depth mm  
 max. current / max. cond. cross-section A/mm<sup>2</sup>  
 Max. clamping range mm<sup>2</sup>

**Technical data**

Rated data	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Number of operating cycles	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
Note	

**Ordering data**

Version	Color
	dark beige
	blue
	without isolator
Note	

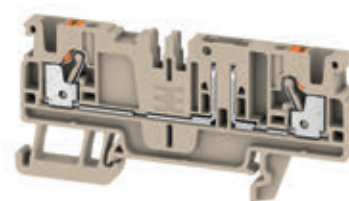
**Accessories**

Pluggable cross-connection	
	2-pole
	10-pole
End plate	
	dark beige
	Blue
End bracket	
	dark beige
	dark beige
Test adapter	
	1-pole
	3-pole
	5-pole
	stackable
Test plug	
Screwdriver	
	Standard
Identification systems	

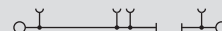
For detailed information on other accessories and application in the online catalogue

**ADT 2.5 2C W/O DTLV**

2.5 mm<sup>2</sup>



5.1 x 77.5 x 36.5  
**20 / 2.5**  
**0.14...2.5**



IEC 60947-1			
IEC	UL	CSA	EN 60079-7
400			
20			
2.5			
	6 kV / 3		
	A3 / V-0		
Rated connection			
0.5...2.5 / 0.5...2.5			
0.5...2.5 / 0.5...2.5			
10 / 0.6 x 3.5 mm			
Note			
Approval in progress			

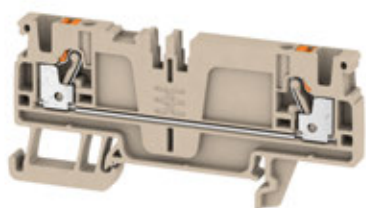
Type	Qty.	Order No.
ADT 2.5 2C	50	1989800000
ADT 2.5 2C BL	50	1989810000
ADT 2.5 2C W/O DTLV	50	1989930000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP 4C 2.5		50	1521530000
AEP 4C 2.5 BL		50	1521640000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 M-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

All MultiMark variants (MM) = strip markers

**A2C 2.5 /DT/FS**

**2.5 mm<sup>2</sup>**



5.1 x 77.5 x 36.5  
**24 / 2.5**  
**0.14...2.5**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
	8 kV / 3		
	A3 / V-0		

**FA**

**Rated connection**

0.5...2.5 / 0.5...2.5  
 0.5...2.5 / 0.5...2.5  
 10 / 0.6 x 3.5 mm

Approval in progress

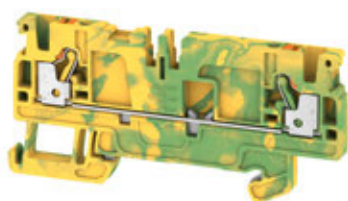
Type	Qty.	Order No.
A2C 2.5 /DT/FS	100	1989900000
A2C 2.5 /DT/FS BL	100	1989910000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP 4C 2.5		50	1521530000
AEP 4C 2.5 BL		50	1521640000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

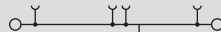
All MultiMark variants (MM) = strip markers

**A2C 2.5 PE /DT/FS**

**2.5 mm<sup>2</sup>**



5.1 x 77.5 x 36.5  
**/ 2.5**  
**0.14...2.5**



IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
	600		
2.5	AWG 28...12		
	/ 3		
	A3 / V-0		

**FA**

**Rated connection**

0.5...2.5 / 0.5...2.5  
 0.5...2.5 / 0.5...2.5  
 10 / 0.6 x 3.5 mm

Approval in progress

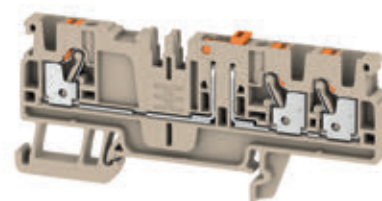
Type	Qty.	Order No.
A2C 2.5 PE /DT/FS	50	1989890000

Type	current	Qty.	Order No.
AEP 4C 2.5		50	1521530000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

All MultiMark variants (MM) = strip markers

**ADT 2.5 3C**

**2.5 mm<sup>2</sup>**



5.1 x 84.5 x 37.65  
**20 / 2.5**  
**0.14...2.5**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
400			
20			
2.5			
	6 kV / 3		
	A3 / V-0		

**Rated connection**

0.5...2.5 / 0.5...2.5  
 0.5...2.5 / 0.5...2.5  
 10 / 0.6 x 3.5 mm

Approval in progress

Type	Qty.	Order No.
ADT 2.5 3C	50	1989830000
ADT 2.5 3C BL	50	1989840000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP DT 2.5 3C		50	1989970000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

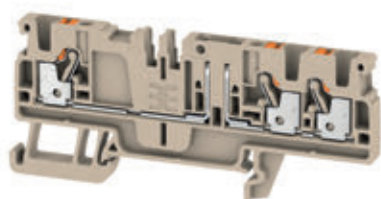
Energy

Transportation

Device Manufacturers

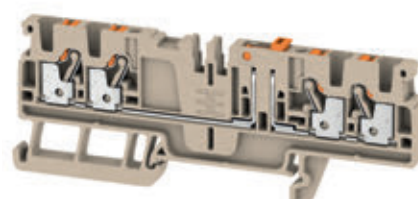
**ADT 2.5 3C W/O DTLV**

2.5 mm<sup>2</sup>



**ADT 2.5 4C**

2.5 mm<sup>2</sup>



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

5.1 x 84.5 x 36.5	
<b>20 / 2.5</b>	
<b>0.14...2.5</b>	

5.1 x 96 x 37.65	
<b>20 / 2.5</b>	
<b>0.14...2.5</b>	

**Technical data**

<b>Rated data</b>	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Number of operating cycles	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

IEC 60947-7-1			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
400			
20			
2.5			
	6 kV / 3		
	A3 / V-0		
<b>Rated connection</b>			
0.5...2.5 / 0.5...2.5			
0.5...2.5 / 0.5...2.5			
10 / 0.6 x 3.5 mm			
Approval in progress			

IEC 60947-7-1			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
400			
20			
2.5			
	6 kV / 3		
	A3 / V-0		
<b>Rated connection</b>			
0.5...2.5 / 0.5...2.5			
0.5...2.5 / 0.5...2.5			
10 / 0.6 x 3.5 mm			
Approval in progress			

**Ordering data**

<b>Version</b>	dark beige blue without isolator
<b>Note</b>	

Type	Qty.	Order No.
ADT 2.5 3C W/O DTLV	50	1989940000

Type	Qty.	Order No.
ADT 2.5 4C	50	1989860000
ADT 2.5 4C BL	50	1989870000

**Accessories**

<b>Pluggable cross-connection</b>	2-pole 10-pole
<b>End plate</b>	dark beige Blue
<b>End bracket</b>	dark beige dark beige
<b>Test adapter</b>	1-pole 3-pole 5-pole stackable
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP DT 2.5 3C		50	1989970000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP DT 2.5 4C		50	1989980000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5/3		25	2041190000
ATPG 2.5/5		25	2041180000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

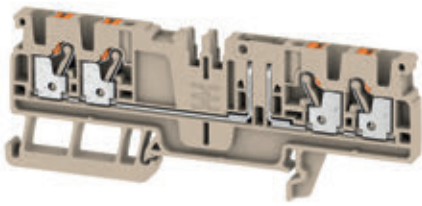
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

**ADT 2.5 4C W/O DTLV**

**2.5 mm<sup>2</sup>**



5.1 x 96 x 36.5  
**20 / 2.5**  
**0.14...2.5**



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
400			
20			
2.5			
		6 kV / 3	
		A3 / V-0	

**Rated connection**

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

Type	Qty.	Order No.
ADT 2.5 4C W/O DTLV	50	<b>1989950000</b>

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>
AEP DT 2.5 4C		50	<b>1989980000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 2.5/3		25	<b>2041190000</b>
ATPG 2.5/5		25	<b>2041180000</b>
ATPG 2.5 MI-R		50	<b>1991960000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 0,6x3,5x100		1	<b>9042110000</b>
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>

All MultiMark variants (MM) = strip markers



Technical data

Machinery

Process

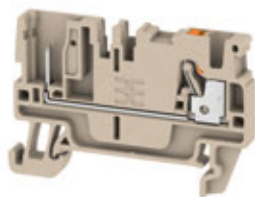
Energy

Transportation

Device Manufacturers

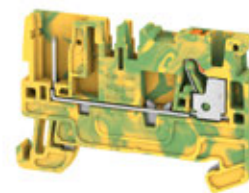
**APGTB 2.5 FT 2C/1**

**2.5 mm<sup>2</sup>**



**APGTB 2.5 PE 2C/1**

**2.5 mm<sup>2</sup>**



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

5.1 x 55 x 36.5	
<b>24 / 2.5</b>	
<b>0.14...2.5</b>	

5.1 x 55 x 36.5	
<b>/ 2.5</b>	
<b>0.14...2.5</b>	

**Technical data**

<b>Rated data</b>	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Number of operating cycles	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

IEC 60947-7-1, IEC 61984

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
	8 kV / 3		
	A3 / V-0		

**Rated connection**

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

IEC 60947-7-2, IEC 61984

IEC	UL	CSA	EN 60079-7
800	600		
2.5	AWG 28...12		
	/ 3		
	A3 / V-0		

**Rated connection**

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

**Ordering data**

<b>Version</b>	dark beige
	blue
	green/yellow
<b>Note</b>	

Type	Qty.	Order No.
APGTB 2.5 FT 2C/1	100	1513970000
APGTB 2.5 FT 2C/1 BL	100	1513990000

Type	Qty.	Order No.
APGTB 2.5 PE 2C/1	50	1513870000

**Accessories**

<b>Pluggable cross-connection</b>	2-pole
	10-pole
<b>End plate</b>	dark beige
	Blue
<b>End bracket</b>	dark beige
	dark beige
<b>Plug</b>	
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP 2C 2.5		50	1514400000
AEP 2C 2.5 BL		50	1514420000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
APG 2.5/1		50	1513720000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

Type	current	Qty.	Order No.
AEP 2C 2.5		50	1514400000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

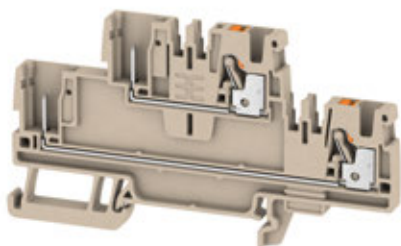
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

APGTB 2.5 2T 4C/2

2.5 mm<sup>2</sup>



5.1 x 91 x 50.5  
24 / 2.5  
0.14...2.5



IEC 60947-7-1, IEC 61984

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
			8 kV / 3
			A3 / V-0

FA

Rated connection

0.5...2.5 / 0.5...2.5  
0.5...2.5 / 0.5...2.5  
10 / 0.6 x 3.5 mm

Approval in progress

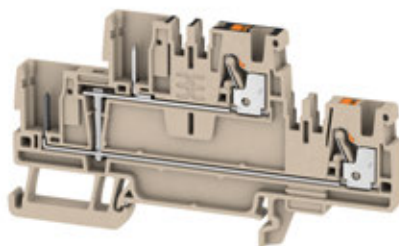
Type	Qty.	Order No.
APGTB 2.5 2T 4C/2	50	1548060000
APGTB 2.5 2T 4C/2 BL	50	1548070000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP 2T 2.5		20	1547690000
AEP 2T 2.5 BL		20	1547700000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
APG 2.5/1		50	1513720000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

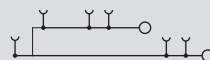
All MultiMark variants (MM) = strip markers

APGTB 2.5 2T VL 4C/2

2.5 mm<sup>2</sup>



5.1 x 91 x 50.5  
24 / 2.5  
0.14...2.5



IEC 60947-7-1, IEC 61984

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
			8 kV / 3
			A3 / V-0

FA

Rated connection

0.5...2.5 / 0.5...2.5  
0.5...2.5 / 0.5...2.5  
10 / 0.6 x 3.5 mm

Approval in progress

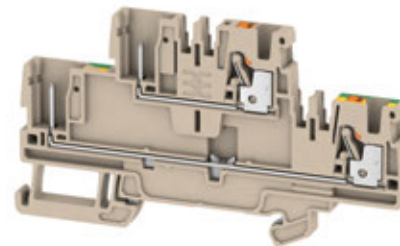
Type	Qty.	Order No.
APGTB 2.5 2T VL 4C/2	50	1548140000
APGTB 2.5 2T VL 4C/2 BL	50	1548150000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP 2T 2.5		20	1547690000
AEP 2T 2.5 BL		20	1547700000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
APG 2.5/1		50	1513720000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

All MultiMark variants (MM) = strip markers

APGTB 2.5 2T FT-PE 4C/2

2.5 mm<sup>2</sup>



5.1 x 91 x 50.5  
24 / 2.5  
0.14...2.5



IEC 60947-7-1, IEC 60947-7-2, IEC 61984

IEC	UL	CSA	EN 60079-7
800			
24			
2.5			
			8 kV / 3
			A3 / V-0

Rated connection

0.5...2.5 / 0.5...2.5  
0.5...2.5 / 0.5...2.5  
10 / 0.6 x 3.5 mm

Approval in progress

Type	Qty.	Order No.
APGTB 2.5 2T FT-PE 4C/2	50	1548130000

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
AEP 2T 2.5		20	1547690000
AEP 2T 2.5 BL		20	1547700000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
APG 2.5/1		50	1513720000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

All MultiMark variants (MM) = strip markers



Technical data

Machinery

Process

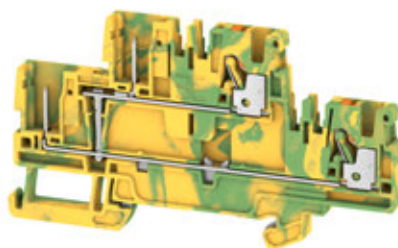
Energy

Transportation

Device Manufacturers

APGTB 2.5 2T PE 4C/2

2.5 mm<sup>2</sup>



Width/Height/Depth	mm
max. current / max. cond. cross-section	-/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

5.1 x 91 x 50.5
/ 2.5
0.14...2.5

Technical data

Rated data	
Rated voltage of feed-through terminal	V
Rated current	-
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Number of operating cycles	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
Note	

IEC 60947-7-2, IEC 61984

IEC	UL	CSA	EN 60079-7
800	600		
2.5	AWG 28...12		
	8 kV / 3		
	A3 / V-0		

**UL**

Rated connection	
0.5...2.5 / 0.5...2.5	
0.5...2.5 / 0.5...2.5	
10 / 0.6 x 3.5 mm	

Approval in progress

Ordering data

Version	dark beige blue green/yellow
Note	

Type	Qty.	Order No.
APGTB 2.5 2T PE 4C/2	50	1548160000

Accessories

Pluggable cross-connection	2-pole 10-pole
End plate	dark beige Blue
End bracket	dark beige dark beige
Plug	
Test plug	
Screwdriver	Standard
Identification systems	

Type	current	Qty.	Order No.
AEP 2T 2.5		20	1547690000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS	1000		1854490000
DEK 5/5 MM WS	800		2007110000
WS 8/5 MM WS	800		2007150000
WS 10/5 M PLUS MC NE WS	600		2003770000

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers



**APG 2.5**
**2.5 mm<sup>2</sup>**


Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

5.1 x 16.5 x 42.5  
**24 / 2.5**  
**0.14...2.5**

**Technical data**

Rated data	
Rated voltage	V
Max. voltage of clamp support & pluggable system	-
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
Note	

IEC 61984

IEC	UL	CSA	EN 60079-7
800	600		
24	20		
2.5	AWG 28...12		
	8 kV / 3		
	A3 / V-0		

Rated connection	Plug-in connection
0.5...2.5 / 0.5...2.5	
0.5...2.5 / 0.5...2.5	
10 / 0.6 x 3.5 mm	

Approval in progress

**Ordering data**

Version	
1-pin	
2-pin	
3-pin	
4-pin	
5-pin	
6-pin	
7-pin	
8-pin	
9-pin	
10-pin	
Note	

Type	Qty.	Order No.
APG 2.5/1	50	1513720000
APG 2.5/2	25	1513640000
APG 2.5/3	25	1513650000
APG 2.5/4	25	1513670000
APG 2.5/5	25	1513680000
APG 2.5/6	25	1513690000
APG 2.5/7	25	1513700000
APG 2.5/8	20	1513730000
APG 2.5/9	20	1513740000
APG 2.5/10	20	1513770000

**Accessories**

End plate	dark beige
Coding	
Cover	
Interlock	
Strain relief	
Identification systems	

Type	current	Qty.	Order No.
AEP PG 2.5		50	2035590000
APGCE		50	1514490000
APGPC 2.5		50	1514500000
APGLE 2.5		25	2457570000
APGSR 2.5		25	2457580000
APGSR 2.5/4		25	2457590000
APGSR 2.5/8		25	2457600000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS		600	2003770000

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers



### AAP - potential distribution terminal blocks

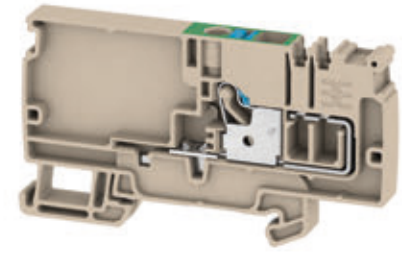
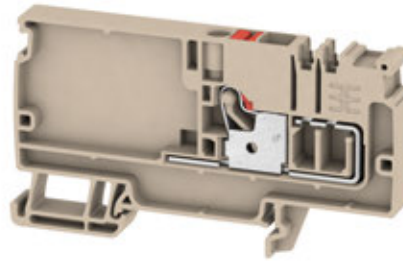
Potential distribution with separate fusing

#### AAP11 6 LO

6 mm<sup>2</sup>

#### AAP11 6 FE

6 mm<sup>2</sup>



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

8.1 x 85.5 x 48	
<b>41 / 6</b>	
<b>0.5...6</b>	

8.1 x 85.5 x 48	
<b>/ 6</b>	
<b>0.5...6</b>	

#### Technical data

<b>Rated data</b>	
Rated voltage of feed-through terminal	V
Rated current for wire cross-section	A
Rated impulse withstand voltage / Pollution severity Gauge to IEC 60947-1 / UL 94 flammability rating	mm <sup>2</sup>
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500			
41			
6			
	6 kV / 3		
	A5 / V-0		

Rated connection	
0.5...6 / 0.5...6	
0.5...6 / 0.5...6	
12 / 1.0 x 5.5 mm	

Approval in progress

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
6			
	6 kV / 3		
	A5 / V-0		

Rated connection	
0.5...6 / 0.5...6	
0.5...6 / 0.5...6	
12 / 1.0 x 5.5 mm	

Approval in progress

#### Ordering data

Version	
	beige Wemid / red pusher
	beige Wemid / blue pusher
	beige Wemid / red and blue pushers
<b>Note</b>	

Type	Qty.	Order No.
AAP11 6 LO RD	20	1989780000
AAP11 6 LO BL	20	1988130000

Type	Qty.	Order No.
AAP11 6 FE	20	1988140000

FE = functional earth, contact to DIN rail.

#### Accessories

Pluggable cross-connection	
	2-pole/ red
	10-pole / red
	2-pole / blue
	10-pole/ blue
End plate / Partition plate	
End bracket	
	dark beige
Test adapter	
	1-pole
Test plug	
Screwdriver	
	Standard
Identification systems	

Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	1985650000
ZQV 1.5N/10 RD	17.5 A	20	1985800000
ZQV 1.5N/2 BL	17.5 A	60	1985530000
ZQV 1.5N/10 BL	17.5 A	20	1985680000
AEP AP11		20	1988320000
AEB 35 SC/1		50	1991920000
ATPG 1.5-10 L		50	1991890000
PS 2.0 MC		20	0310000000
SDIL 1,0x5,5x125		1	9042130000
DEK-A 5/8 MM WS		500	2448860000
WS-A 8/8 MM WS		500	2448930000
DEK 5/8 PLUS MC NE WS		800	1046350000

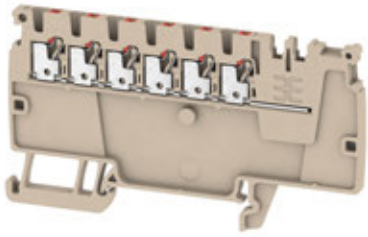
Type	current	Qty.	Order No.
ZQV 1.5N/2 BL	17.5 A	60	1985530000
ZQV 1.5N/10 BL	17.5 A	20	1985680000
AEP AP11		20	1988320000
AEB 35 SC/1		50	1991920000
ATPG 1.5-10 L		50	1991890000
PS 2.0 MC		20	0310000000
SDIL 1,0x5,5x125		1	9042130000
DEK-A 5/8 MM WS		500	2448860000
WS-A 8/8 MM WS		500	2448930000
DEK 5/8 PLUS MC NE WS		800	1046350000

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

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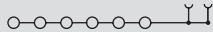
AAP11 1.5 LI

1.5 mm<sup>2</sup>

3.5 x 85.5 x 48

17.5 / 1.5

0.14...1.5



IEC/EN 60947-7-1:2009

IEC	UL	CSA	EN 60079-7
500			
17.5			
1.5			
		6 kV / 3	
		A1 / V-0	

**Rated connection**

0.5...1.5 / 0.5...1.5

0.5...1.5 / 0.5...1.5

8 / 0.4 x 2.0 mm

Approval in progress

Type	Qty.	Order No.
AAP11 1.5 LI RD	50	1988160000
AAP11 1.5 LI BL	50	1988170000

Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	1985650000
ZQV 1.5N/10 RD	17.5 A	20	1985800000
ZQV 1.5N/2 BL	17.5 A	60	1985530000
ZQV 1.5N/10 BL	17.5 A	20	1985680000
AEP AP11		20	1988320000
AEB 35 SC/1		50	1991920000
SDIS 0.4X2.0X60		1	9205690000
WS 10/3.5 PLUS MC NE WS		960	2003760000
DEK 5/3.5 PLUS MC NE WS		1600	2003750000
DEK 5/3.5 MM WS		1000	2007100000
WS 8/3.5 MM WS		1000	2007140000

All MultiMark variants (MM) = strip markers



### AAP - potential distribution terminal blocks

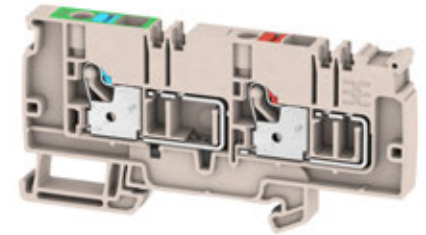
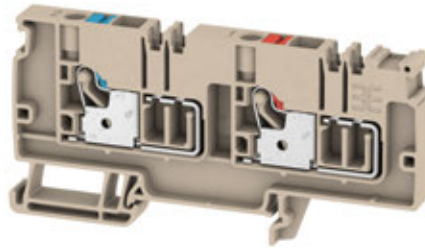
Potential distribution with separate fusing

#### AAP13 6 LO-LO

6 mm<sup>2</sup>

#### AAP13 6 FE-LO

6 mm<sup>2</sup>



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

8.1 x 96 x 48	
<b>41 / 6</b>	
<b>0.5...6</b>	

8.1 x 96 x 48	
<b>41 / 6</b>	
<b>0.5...6</b>	

#### Technical data

<b>Rated data</b>	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

In accordance with IEC 60947-7-1			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
250			
41			
6			
		4 kV / 3	
		A5 / V-0	
<b>Rated connection</b>			
0.5...6 / 0.5...6			
0.5...6 / 0.5...6			
12 / 1.0 x 5.5 mm			
<b>Note</b>			
Approval in progress			

In accordance with IEC 60947-7-1			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
250			
41			
6			
		4 kV / 3	
		A5 / V-0	
<b>Rated connection</b>			
0.5...6 / 0.5...6			
0.5...6 / 0.5...6			
12 / 1.0 x 5.5 mm			
<b>Note</b>			
Approval in progress			

#### Ordering data

<b>Version</b>	
	beige Wemid / red pusher
	beige Wemid / blue pusher
	beige Wemid / red and blue pushers
<b>Note</b>	

Type	Qty.	Order No.
AAP13 6 LO-LO	20	<b>1988260000</b>

Type	Qty.	Order No.
AAP13 6 FE-LO	20	<b>1988270000</b>

FE = functional earth, contact to terminal rail.

#### Accessories

<b>Pluggable cross-connection</b>	
	2-pole/ red
	10-pole / red
	2-pole / blue
	10-pole/ blue
<b>End plate / Partition plate</b>	
<b>End bracket</b>	
	dark beige
<b>Test adapter</b>	
	1-pole
<b>Test plug</b>	
<b>Screwdriver</b>	
	Standard
<b>Identification systems</b>	

Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	<b>1985650000</b>
ZQV 1.5N/10 RD	17.5 A	20	<b>1985800000</b>
ZQV 1.5N/2 BL	17.5 A	60	<b>1985530000</b>
ZQV 1.5N/10 BL	17.5 A	20	<b>1985680000</b>
AEP AP13		20	<b>1990140000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 1,0x5,5x125		1	<b>9042130000</b>
DEK-A 5/8 MM WS		500	<b>2448860000</b>
WS-A 8/8 MM WS		500	<b>2448930000</b>
DEK 5/8 PLUS MC NE WS		800	<b>1046350000</b>

Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	<b>1985650000</b>
ZQV 1.5N/10 RD	17.5 A	20	<b>1985800000</b>
ZQV 1.5N/2 BL	17.5 A	60	<b>1985530000</b>
ZQV 1.5N/10 BL	17.5 A	20	<b>1985680000</b>
AEP AP13		20	<b>1990140000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 1,0x5,5x125		1	<b>9042130000</b>
DEK-A 5/8 MM WS		500	<b>2448860000</b>
WS-A 8/8 MM WS		500	<b>2448930000</b>
DEK 5/8 PLUS MC NE WS		800	<b>1046350000</b>

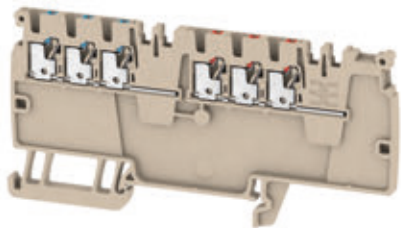
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

**AAP13 1.5 LI-LI**

**1.5 mm<sup>2</sup>**



3.5 x 96 x 48  
**16 / 1.5**  
**0.14...1.5**



IEC/EN 60947-7-1:2009

IEC	UL	CSA	EN 60079-7
250			
16			
1.5			
		4 kV / 3	
		A1 / V-0	

**Rated connection**

0.5...1.5 / 0.5...1.5  
 0.5...1.5 / 0.5...1.5  
 8 / 0.4 x 2.0 mm

Approval in progress

Type	Qty.	Order No.
AAP13 1.5 LI-LI	50	<b>1988280000</b>

Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	<b>1985650000</b>
ZQV 1.5N/10 RD	17.5 A	20	<b>1985800000</b>
ZQV 1.5N/2 BL	17.5 A	60	<b>1985530000</b>
ZQV 1.5N/10 BL	17.5 A	20	<b>1985680000</b>
AEP AP13		20	<b>1990140000</b>
AEB 35 SC/1		50	<b>1991920000</b>
SDIS 0.4X2.0X60		1	<b>9205690000</b>
WS 10/3.5 PLUS MC NE WS		960	<b>2003760000</b>
DEK 5/3.5 PLUS MC NE WS		1600	<b>2003750000</b>
DEK 5/3.5 MM WS		1000	<b>2007100000</b>
WS 8/3.5 MM WS		1000	<b>2007140000</b>

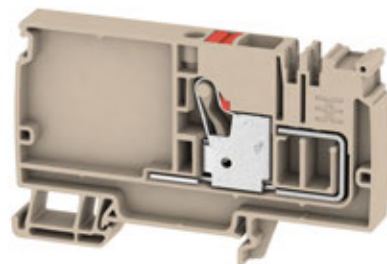
All MultiMark variants (MM) = strip markers

### AAP - potential distribution terminal blocks

Potential distribution with separate fusing

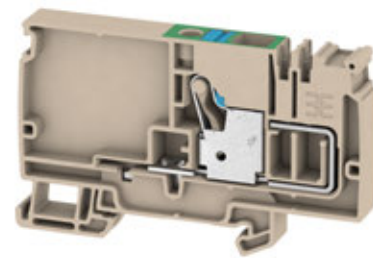
#### AAP12 10 LO

10 mm<sup>2</sup>



#### AAP12 10 FE

10 mm<sup>2</sup>



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

10 x 89 x 54	
<b>57 / 10</b>	
<b>0.5...10</b>	

10 x 89 x 54	
<b>/ 10</b>	
<b>0.5...10</b>	

#### Technical data

<b>Rated data</b>	
Rated voltage of feed-through terminal	V
Rated current for wire cross-section	A
Rated impulse withstand voltage / Pollution severity Gauge to IEC 60947-1 / UL 94 flammability rating	mm <sup>2</sup>
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800			
57			
10			
	8 kV / 3		
	A6 / V-0		
<b>Rated connection</b>			
0.5...10 / 0.5...10			
0.5...10 / 0.5...10			
18 / 1.0 x 5.5 mm			
Approval in progress			

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
10			
	8 kV / 3		
	A6 / V-0		
<b>Rated connection</b>			
0.5...10 / 0.5...10			
0.5...10 / 0.5...10			
18 / 1.0 x 5.5 mm			
Approval in progress			

#### Ordering data

Version	
	beige Wemid / red pusher
	beige Wemid / blue pusher
	beige Wemid / red and blue pushers
<b>Note</b>	

Type	Qty.	Order No.
AAP12 10 LO RD	20	1988190000
AAP12 10 LO BL	20	1988180000
<b>Note</b>		

Type	Qty.	Order No.
AAP12 10 FE	20	1988200000
FE = functional earth, contact to DIN rail.		

#### Accessories

Pluggable cross-connection	
	2-pole/ red
	10-pole / red
	2-pole / blue
	10-pole/ blue
End plate / Partition plate	
	dark beige
End bracket	
	1-pole
Test adapter	
	Standard
Test plug	
	Standard
Screwdriver	
	Standard
Identification systems	

Type	current	Qty.	Order No.
ZQV 2.5N/2 RD	24 A	60	2108470000
ZQV 2.5N/10 RD	24 A	20	2108910000
ZQV 2.5N/2 BL	24 A	60	1527740000
ZQV 2.5N/10 BL	24 A	20	1527880000
AEP AP12		20	1988300000
AEB 35 SC/1		50	1991920000
ATPG 1.5-10 L		50	1991890000
PS 2.0 MC		20	0310000000
SDIL 1,0x5,5x125		1	9042130000
WS 7.8/9.2 PLUS MC NE GR		360	1208970000

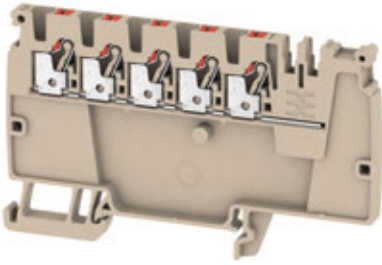
Type	current	Qty.	Order No.
ZQV 2.5N/2 BL	24 A	60	1527740000
ZQV 2.5N/10 BL	24 A	20	1527880000
AEP AP12		20	1988300000
AEB 35 SC/1		50	1991920000
ATPG 1.5-10 L		50	1991890000
PS 2.0 MC		20	0310000000
SDIL 1,0x5,5x125		1	9042130000
WS 7.8/9.2 PLUS MC NE GR		360	1208970000

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

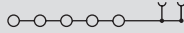
## AAP12 2.5 LI

2.5 mm<sup>2</sup>

5.1 x 89 x 54

24 / 2.5

0.5...2.5



IEC/EN 60947-7-1:2009

IEC	UL	CSA	EN 60079-7
800			
24			
2.5			
		8 kV / 3	
		A3 / V-0	

## Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

Type	Qty.	Order No.
AAP12 2.5 LI RD	50	1988290000
AAP12 2.5 LI BL	50	1988100000

Type	current	Qty.	Order No.
ZQV 2.5N/2 RD	24 A	60	2108470000
ZQV 2.5N/10 RD	24 A	20	2108910000
ZQV 2.5N/2 BL	24 A	60	1527740000
ZQV 2.5N/10 BL	24 A	20	1527880000
AEP AP12		20	1988300000
AEB 35 SC/1		50	1991920000
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS		1000	1854490000
WS 10/5 M PLUS MC NE WS		600	2003770000
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS		800	2007150000

All MultiMark variants (MM) = strip markers



### AAP - potential distribution terminal blocks

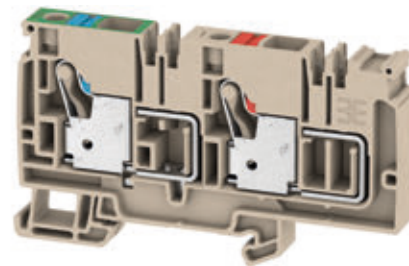
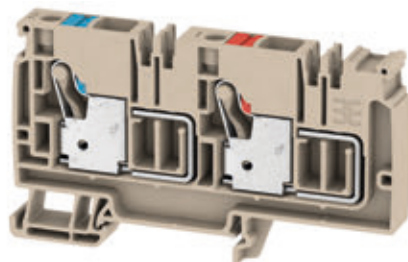
Potential distribution with separate fusing

#### AAP14 10 LO-LO

10 mm<sup>2</sup>

#### AAP14 10 FE-LO

10 mm<sup>2</sup>



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

10 x 94 x 54	
<b>57 / 10</b>	
<b>0.5...10</b>	

10 x 94 x 54	
<b>57 / 10</b>	
<b>0.5...10</b>	

#### Technical data

<b>Rated data</b>	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500			
57			
10			
	6 kV / 3		
	A6 / V-0		
<b>Rated connection</b>			
0.5...10 / 0.5...10			
0.5...10 / 0.5...10			
18 / 1.0 x 5.5 mm			
Approval in progress			

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500			
57			
10			
	6 kV / 3		
	A6 / V-0		
<b>Rated connection</b>			
0.5...10 / 0.5...10			
0.5...10 / 0.5...10			
18 / 1.0 x 5.5 mm			
Approval in progress			

#### Ordering data

<b>Version</b>	beige Wemid / red pusher beige Wemid / blue pusher beige Wemid / red and blue pushers
<b>Note</b>	

Type	Qty.	Order No.
AAP14 10 LO-LO	20	1988250000

Type	Qty.	Order No.
AAP14 10 FE-LO	20	1988240000
FE = functional earth, contact to terminal rail		

#### Accessories

<b>Pluggable cross-connection</b>	
	2-pole/ red
	10-pole / red
	2-pole / blue
	10-pole/ blue
<b>End plate / Partition plate</b>	
<b>End bracket</b>	
	dark beige
<b>Test adapter</b>	
	1-pole
<b>Test plug</b>	
<b>Screwdriver</b>	
	Standard
<b>Identification systems</b>	

Type	current	Qty.	Order No.
ZQV 2.5N/2 RD	24 A	60	2108470000
ZQV 2.5N/10 RD	24 A	20	2108910000
ZQV 2.5N/2 BL	24 A	60	1527740000
ZQV 2.5N/10 BL	24 A	20	1527880000
AEP AP14		20	1988340000
AEB 35 SC/1		50	1991920000
ATPG 1.5-10 L		50	1991890000
PS 2.0 MC		20	0310000000
SDIL 1,0x5,5x125		1	9042130000
WS 7.8/9.2 PLUS MC NE GR		360	1208970000

Type	current	Qty.	Order No.
ZQV 2.5N/2 RD	24 A	60	2108470000
ZQV 2.5N/10 RD	24 A	20	2108910000
ZQV 2.5N/2 BL	24 A	60	1527740000
ZQV 2.5N/10 BL	24 A	20	1527880000
AEP AP14		20	1988340000
AEB 35 SC/1		50	1991920000
ATPG 1.5-10 L		50	1991890000
PS 2.0 MC		20	0310000000
SDIL 1,0x5,5x125		1	9042130000
WS 7.8/9.2 PLUS MC NE GR		360	1208970000

For detailed information on other accessories and application in the online catalogue

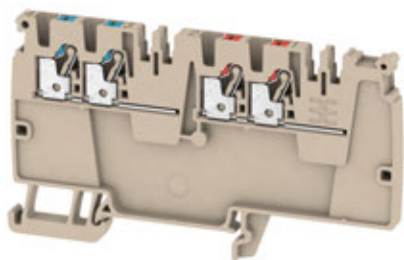
All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers



**AAP14 2.5 LI-LI**

**2.5 mm<sup>2</sup>**



5.1 x 94 x 54  
**24 / 2.5**  
**0.5...2.5**



IEC/EN 60947-7-1:2009

IEC	UL	CSA	EN 60079-7
500			
24			
2.5			
			6 kV / 3
			A3 / V-0

**Rated connection**

0.5...2.5 / 0.5...2.5  
 0.5...2.5 / 0.5...2.5  
 10 / 0.6 x 3.5 mm

Approval in progress

Type	Qty.	Order No.
AAP14 2.5 LI-LI	50	<b>1988230000</b>

Type	current	Qty.	Order No.
ZQV 2.5N/2 RD	24 A	60	<b>2108470000</b>
ZQV 2.5N/10 RD	24 A	20	<b>2108910000</b>
ZQV 2.5N/2 BL	24 A	60	<b>1527740000</b>
ZQV 2.5N/10 BL	24 A	20	<b>1527880000</b>
AEP AP14		20	<b>1988340000</b>
AEB 35 SC/1		50	<b>1991920000</b>
SDIL 0,6x3,5x100		1	<b>9042110000</b>
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

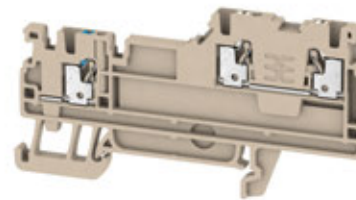
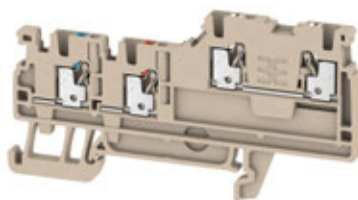
**AIO - sensor-actuator terminal blocks**

**AI021 1.5 SI**

**1.5 mm<sup>2</sup>**

**AI021 1.5 SO**

**1.5 mm<sup>2</sup>**



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

3.5 x 80 x 42	
<b>13.5 / 1.5</b>	
<b>0.14...1.5</b>	

3.5 x 80 x 42	
<b>13.5 / 1.5</b>	
<b>0.14...1.5</b>	

**Technical data**

<b>Rated data</b>	
Rated voltage	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
250			
13.5			
1.5			
	4 kV / 3		
	A1 / V-0		

Rated connection
0.5...1.5 / 0.5...1.5
0.5...1.5 / 0.5...1.5
8 / 0.4 x 2.0 mm

Approval in progress

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
250			
13.5			
1.5			
	4 kV / 3		
	A1 / V-0		

Rated connection
0.5...1.5 / 0.5...1.5
0.5...1.5 / 0.5...1.5
8 / 0.4 x 2.0 mm

Approval in progress

**Ordering data**

<b>Version</b>	
<b>Note</b>	

Type	Qty.	Order No.
AI021 1.5 SI	100	<b>1992260000</b>

Type	Qty.	Order No.
AI021 1.5 SO	100	<b>1992240000</b>

**Accessories**

<b>Pluggable cross-connection</b>	
	2-pole/ red
	10-pole / red
	2-pole / blue
	10-pole/ blue
<b>End plate</b>	
<b>End bracket</b>	
	dark beige
	dark beige
<b>Test adapter</b>	
	1-pole stackable
<b>Test plug</b>	
<b>Screwdriver</b>	
	Standard
<b>Identification systems</b>	

Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	<b>1985650000</b>
ZQV 1.5N/10 RD	17.5 A	20	<b>1985800000</b>
ZQV 1.5N/2 BL	17.5 A	60	<b>1985530000</b>
ZQV 1.5N/10 BL	17.5 A	20	<b>1985680000</b>
AEP IO21		50	<b>1993580000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 1.5 MI-R		50	<b>1991880000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDS 0.4X2.0X60		1	<b>9037160000</b>
DEK 5/3.5 MM WS		1000	<b>2007100000</b>
WS 8/3.5 MM WS		1000	<b>2007140000</b>
DEK 5/3.5 PLUS MC NE WS		1600	<b>2003750000</b>
WS 10/3.5 PLUS MC NE WS		960	<b>2003760000</b>

Type	current	Qty.	Order No.
ZQV 1.5N/2 BL	17.5 A	60	<b>1985530000</b>
ZQV 1.5N/10 BL	17.5 A	20	<b>1985680000</b>
AEP IO21		50	<b>1993580000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 1.5 MI-R		50	<b>1991880000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDS 0.4X2.0X60		1	<b>9037160000</b>
DEK 5/3.5 MM WS		1000	<b>2007100000</b>
WS 8/3.5 MM WS		1000	<b>2007140000</b>
DEK 5/3.5 PLUS MC NE WS		1600	<b>2003750000</b>
WS 10/3.5 PLUS MC NE WS		960	<b>2003760000</b>

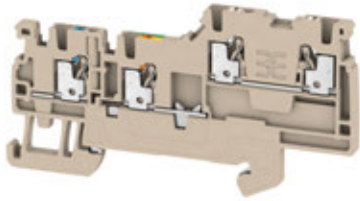
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

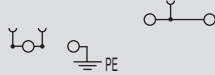
All MultiMark variants (MM) = strip markers

**AI021 1.5 SO-PE**

**1.5 mm<sup>2</sup>**



3.5 x 80 x 42  
**13.5 / 1.5**  
**0.14...1.5**



In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
250			
13.5			
1.5			
4 kV / 3			
A1 / V-0			

**Rated connection**

0.5...1.5 / 0.5...1.5  
 0.5...1.5 / 0.5...1.5  
 8 / 0.4 x 2.0 mm

Approval in progress

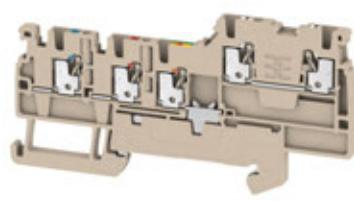
Type	Qty.	Order No.
AI021 1.5 SO-PE	100	<b>1992250000</b>

Type	current	Qty.	Order No.
ZQV 1.5N/2 BL	17.5 A	60	<b>1985530000</b>
ZQV 1.5N/10 BL	17.5 A	20	<b>1985680000</b>
AEP IO21		50	<b>1993580000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 1.5 MI-R		50	<b>1991880000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDS 0.4X2.0X60		1	<b>9037160000</b>
DEK 5/3.5 MM WS		1000	<b>2007100000</b>
WS 8/3.5 MM WS		1000	<b>2007140000</b>
DEK 5/3.5 PLUS MC NE WS		1600	<b>2003750000</b>
WS 10/3.5 PLUS MC NE WS		960	<b>2003760000</b>

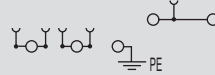
All MultiMark variants (MM) = strip markers

**AI022 1.5 SI-PE**

**1.5 mm<sup>2</sup>**



3.5 x 89 x 45  
**13.5 / 1.5**  
**0.14...1.5**



In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
250			
13.5			
1.5			
4 kV / 3			
A1 / V-0			

**Rated connection**

0.5...1.5 / 0.5...1.5  
 0.5...1.5 / 0.5...1.5  
 8 / 0.4 x 2.0 mm

Approval in progress

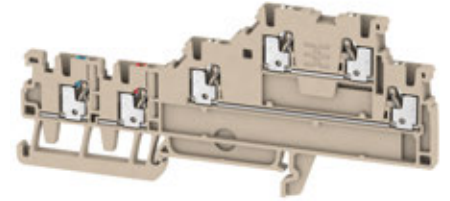
Type	Qty.	Order No.
AI022 1.5 SI-PE	100	<b>1992230000</b>

Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	<b>1985650000</b>
ZQV 1.5N/10 RD	17.5 A	20	<b>1985800000</b>
ZQV 1.5N/2 BL	17.5 A	60	<b>1985530000</b>
ZQV 1.5N/10 BL	17.5 A	20	<b>1985680000</b>
AEP IO22		50	<b>1993590000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 1.5 MI-R		50	<b>1991880000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDS 0.4X2.0X60		1	<b>9037160000</b>
DEK 5/3.5 MM WS		1000	<b>2007100000</b>
WS 8/3.5 MM WS		1000	<b>2007140000</b>
DEK 5/3.5 PLUS MC NE WS		1600	<b>2003750000</b>
WS 10/3.5 PLUS MC NE WS		960	<b>2003760000</b>

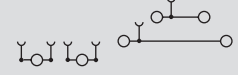
All MultiMark variants (MM) = strip markers

**AI023 1.5 2SI**

**1.5 mm<sup>2</sup>**



3.5 x 110 x 49.5  
**13.5 / 1.5**  
**0.14...1.5**



In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
250			
13.5			
1.5			
4 kV / 3			
A1 / V-0			

**Rated connection**

0.5...1.5 / 0.5...1.5  
 0.5...1.5 / 0.5...1.5  
 8 / 0.4 x 2.0 mm

Approval in progress

Type	Qty.	Order No.
AI023 1.5 2SI	100	<b>1992220000</b>

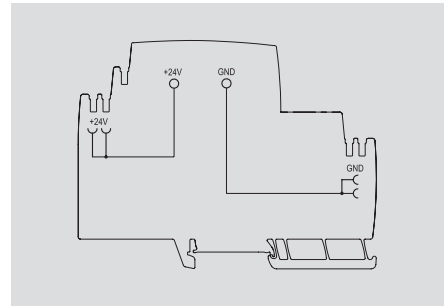
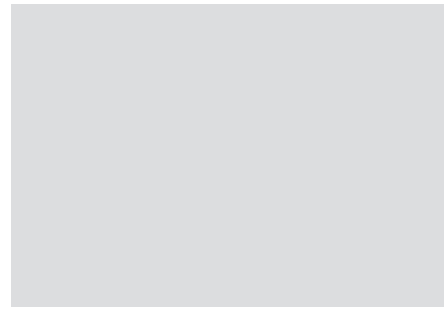
Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	<b>1985650000</b>
ZQV 1.5N/10 RD	17.5 A	20	<b>1985800000</b>
ZQV 1.5N/2 BL	17.5 A	60	<b>1985530000</b>
ZQV 1.5N/10 BL	17.5 A	20	<b>1985680000</b>
AEP IO23		50	<b>1993600000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 1.5 MI-R		50	<b>1991880000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDS 0.4X2.0X60		1	<b>9037160000</b>
DEK 5/3.5 MM WS		1000	<b>2007100000</b>
WS 8/3.5 MM WS		1000	<b>2007140000</b>
DEK 5/3.5 PLUS MC NE WS		1600	<b>2003750000</b>
WS 10/3.5 PLUS MC NE WS		960	<b>2003760000</b>

All MultiMark variants (MM) = strip markers

**maxGUARD – Feed-in module**

Passive Feed-in module

**AMG FIM-0**



**Technical data**

<b>Input</b>	
Input fuse (internal)	No
DC input voltage range	18...30 V DC
Rated input voltage	24 V DC
Current consumption (idle)	
Current consumption (full load)	
max. admissible residual ripple at the input	100 mVpp
Surge protection	
<b>General data</b>	
Protection degree	IP20
Control inputs	No
Overvoltage category	III
<b>Connection data</b>	
Number of terminals	2 (+,-)
Wire cross-section, AWG/kcmil min/max	18..6
Wire cross-section, flexible min/max	0.75...16 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.75...10 mm <sup>2</sup>
Screwdriver blade	1.2 x 6.5
<b>Approvals</b>	
Approvals	
<b>Note</b>	

<b>Technical data</b>		
	No	
	18...30 V DC	
	24 V DC	
	100 mVpp	
<b>General data</b>		
	IP20	
	No	
	III	
<b>Connection data</b>		
	2 (+,-)	
	18..6	
	0.75...16 mm <sup>2</sup>	
	0.75...10 mm <sup>2</sup>	
	1.2 x 6.5	
<b>Approvals</b>		
<b>Note</b>		

**Ordering data**

<b>Rated current</b>	
<b>Note</b>	

Type	Qty.	Order No.
AMG FIM-0	1	2081870000

Technical data

Machinery

Process

Energy

Transportation

Device  
Manufacturers

**maxGUARD – feed-in module**

Active feed-in module with Reset- and Alarmfunktion

**AMG FIM-C**



**Technical data**

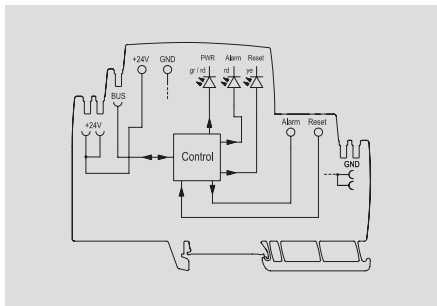
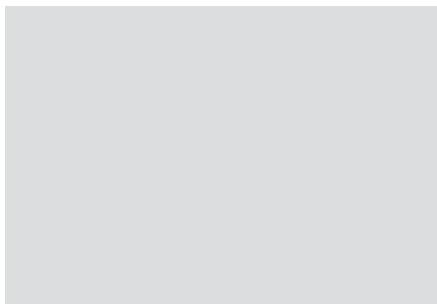
<b>Input</b>
Input fuse (internal)
DC input voltage range
Rated input voltage
Current consumption (idle)
Current consumption (full load)
max. admissible residual ripple at the input
Surge protection
<b>General data</b>
Protection degree
Control inputs
Overvoltage category
<b>Signalling</b>
LED yellow
LED green
LED red
Transistor output, positive-switching
<b>Connection data</b>
Number of terminals
Wire cross-section, AWG/kcmil min/max
Wire cross-section, flexible min/max
Wire cross-section, rigid min/max
Screwdriver blade
<b>Approvals</b>
Approvals
<b>Note</b>

**Ordering data**

<b>Rated current</b>
<b>Note</b>

No
18...30 V DC
24 V DC
20 mA
120 mA
100 mVpp
Suppressor diode
IP20
Reset
III
External reset is signalled, Alarm is signalled
Operating voltage OK
Alarm
Alarm

Type	Qty.	Order No.
AMG FIM-C	1	2081880000

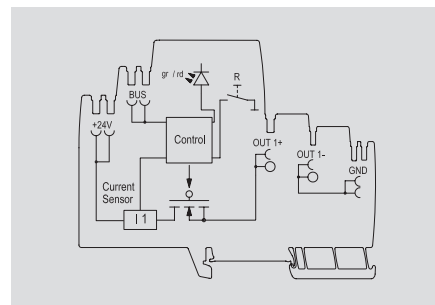


**Technical data**  
**Machinery**  
**Process**  
**Energy**  
**Transportation**  
**Device Manufacturers**

**maxGUARD – Load monitoring (fixed value)**

Electronic load monitoring with fixed rated current (without I > 90 % pre warning)

**AMG ELM - xF**



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

**Technical data**

<b>Input</b>
Input fuse (internal)
DC input voltage range
Rated input voltage
Current consumption (idle) / Current consumption (full load)
max. admissible residual ripple at the input
<b>Output</b>
Connection system
Triggering characteristic
Switch-on delay
Capacitive load
Surge protection
<b>Function key</b>
LED initial state
Pressing the button
LED, subsequent state
Output, subsequent state
<b>General data</b>
Relay to activate the output
Protection degree / Overvoltage category
<b>Signalling</b>
LED green
LED red
<b>Connection data</b>
Number of terminals
Wire cross-section, AWG/kcmil min/max
Wire cross-section, flexible min/max
Wire cross-section, rigid min/max
Screwdriver blade
<b>Approvals</b>
Approvals
<b>Note</b>

**Ordering data**

<b>Rated current</b>	1.00 A
	2.00 A
	4.00 A
	6.00 A
<b>Note</b>	

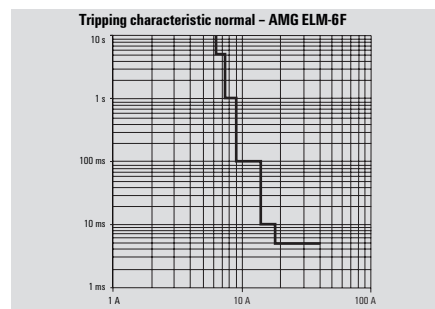
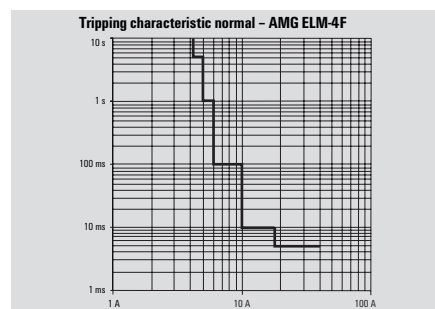
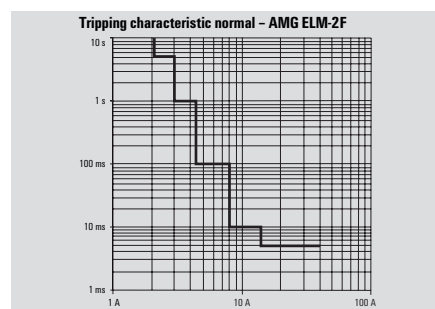
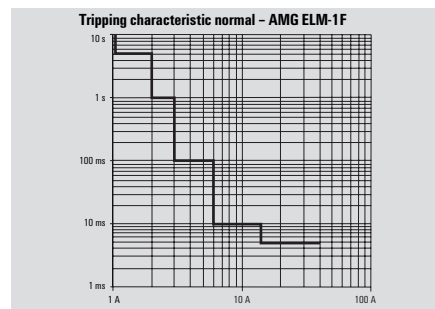
**Accessories**

<b>Note</b>	
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Yes		
18...30 V DC		
24 V DC		
25 mA / I <sub>out</sub> +30 mA		
100 mVpp		
<b>PUSH IN</b>		
see characteristic curve		
1 s		
2080420000: 10,000 µF;		
2080480000: 10,000 µF;		
2080490000: 10,000 µF;		
2080500000: 15,000 µF		
Suppressor diode		
LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)	> 0.1 to 2 s (restart)
Red LED switched off	Red LED switched off	LED green switched on
No		
IP20 / III		
Operation (failure-free)		
Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)		
2 (+ / -)		
26...12		
0.14...2.5 mm <sup>2</sup>		
0.14...2.5 mm <sup>2</sup>		
0.6 x 3.5		

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
AMG ELM-1F	1	2080420000
AMG ELM-2F	1	2080480000
AMG ELM-4F	1	2080490000
AMG ELM-6F	1	2080500000

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000



**maxGUARD – Load monitoring (fixed value)**

Electronic load monitoring with fixed rated current (without  $I > 90\%$  pre warning)

**Technical data**
**Input**

Input fuse (internal)  
 DC input voltage range  
 Rated input voltage  
 Current consumption (idle)  
 Current consumption (full load)  
 max. admissible residual ripple at the input  
 Surge protection

**Output**

Connection system  
 Triggering characteristic  
 Switch-on delay  
 Capacitive load

**Function key**

LED initial state

Pressing the button

LED, subsequent state  
 Output, subsequent state

**General data**

Relay to activate the output  
 Protection degree  
 Overvoltage category

**Signalling**

LED green  
 LED red

**Connection data**

Number of terminals  
 Wire cross-section, AWG/kcmil min/max  
 Wire cross-section, flexible min/max  
 Wire cross-section, rigid min/max  
 Screwdriver blade

**Approvals**

Approvals

**Note**
**Ordering data**

Rated current	
	8.00 A
	10.00 A

**Note**
**Accessories**
**Note**
**AMG ELM - fixed value**


Yes
18...30 V DC
24 V DC
25 mA
$I_{OUT} +30\text{ mA}$
100 mVpp
Suppressor diode
PUSH IN
see characteristic curve
1 s
2080600000: 15,000 $\mu\text{F}$ ;
2080650000: 20,000 $\mu\text{F}$

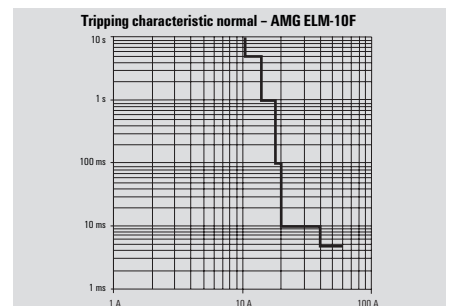
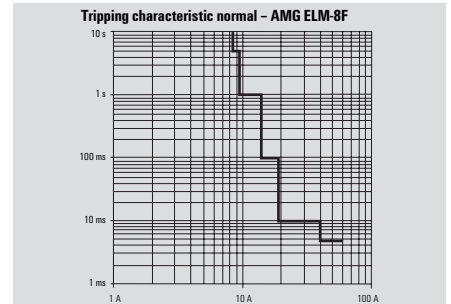
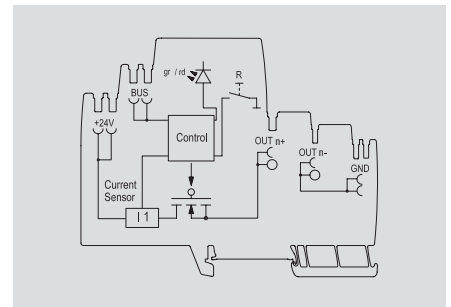
LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)	> 0.1 to 2 s (restart)
Red LED switched off	Red LED switched off	LED green switched on

No
IP20
III
Operation (failure-free)
Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)

4 (++ / -)
26...12
0.14...2.5 mm <sup>2</sup>
0.14...2.5 mm <sup>2</sup>
0.6 x 3.5

Type	Qty.	Order No.
AMG ELM-8F	1	2080600000
AMG ELM-10F	1	2080650000

Type	Qty.	Order No.
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000



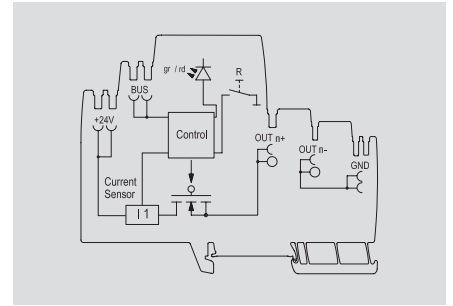
**maxGUARD – Load monitoring (fixed value)**

**Class 2**

Electronic load monitoring with fixed rated current (without I > 90 % pre warning)

- Class 2 Approval

**AMG ELM - xF CL2**



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

**Technical data**

Input	
Input fuse (internal)	Yes
DC input voltage range	18...30 V DC
Rated input voltage	24 V DC
Current consumption (idle)	25 mA
Current consumption (full load)	I <sub>OUT</sub> +30 mA
max. admissible residual ripple at the input	100 mVpp
Surge protection	Suppressor diode
Output	
Connection system	PUSH IN
Triggering characteristic	see characteristic curve
Switch-on delay	1 s
Capacitive load	2491270000: 10,000 µF; 2491280000: 10,000 µF; 2491290000: 10,000 µF

**Function key**

LED initial state			
LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)	
Pressing the button	> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)	> 0.1 to 2 s (restart)
LED, subsequent state	Red LED switched off	Red LED switched off	LED green switched on

**General data**

Relay to activate the output	No
Protection degree	IP20
Overvoltage category	III
Signalling	
LED green	Operation (failure-free)
LED red	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)

**Connection data**

Number of terminals	2 (+ / -)
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5

**Approvals**

Approvals	
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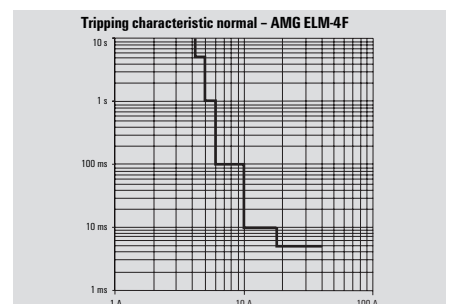
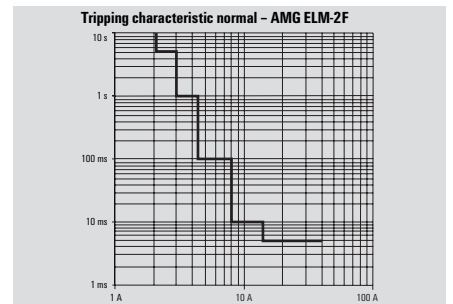
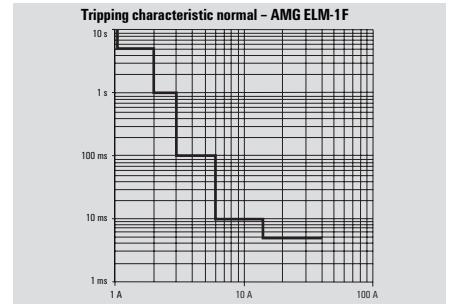
**Note**

**Ordering data**

Type	Qty.	Order No.
AMG ELM-1F CL2	1	2491270000
AMG ELM-2F CL2	1	2491280000
AMG ELM-4F CL2	1	2491290000

**Note**

Type	Qty.	Order No.
AMG ELM-1F CL2	1	2491270000
AMG ELM-2F CL2	1	2491280000
AMG ELM-4F CL2	1	2491290000





**maxGUARD – Load monitoring adjustable**

Electronic load monitoring with adjustable trigger current and characteristic (with  $I > 90\%$  pre warning)

**Technical data**
**Input**

Input fuse (internal)  
 DC input voltage range  
 Rated input voltage  
 Current consumption (idle)  
 Current consumption (full load)  
 max. admissible residual ripple at the input

**Output**

Connection system  
 Triggering characteristic  
 Backup modes  
 Switch-on delay  
 Capacitive load  
 adjustable rated current  
 Surge protection

**Function key**

LED initial state

Pressing the button

LED, subsequent state  
 Output, subsequent state

**General data**

Relay to activate the output  
 Protection degree  
 Overvoltage category

**Signalling**

LED green  
 LED red

**Connection data**

Number of terminals  
 Wire cross-section, AWG/kcmil min/max  
 Wire cross-section, flexible min/max  
 Wire cross-section, rigid min/max  
 Screwdriver blade

**Approvals**

Approvals

**Note**
**Ordering data**
**Rated current**

6.00 A

**Note**
**Accessories**
**Note**
**AMG ELM-6 - adjustable**


Yes

18...30 V DC

24 V DC

25 mA

$I_{OUT} +30$  mA

100 mVpp

PUSH IN

see characteristic curve

1- 6 A

1 s

15,000  $\mu$ F

Yes

Suppressor diode

LED green, in operation

LED flashing red, load monitoring has triggered (disconnected)

LED red (permanently lit)

> 0.1 to 2 s (manual disconnect)

> 0.1 to 2 s (confirm and reset)

> 0.1 to 2 s (restart)

Red LED

Red LED

LED green

switched off

switched off

switched on

No

IP20

III

Operation (failure-free), Early warning:  $I_{OUT} > 90\%$   $I_{Rated}$  (flashing)  
 Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)

2 (+ / -)

26...12

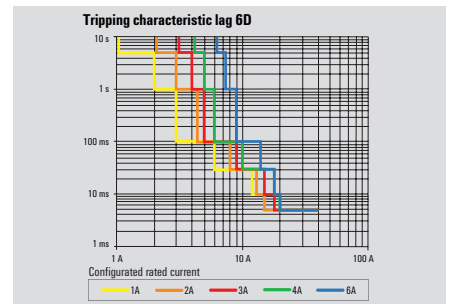
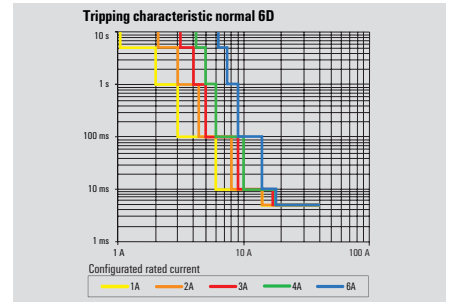
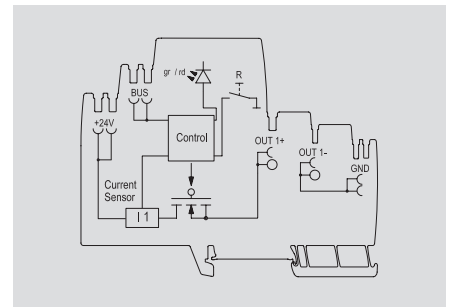
0.14...2.5 mm<sup>2</sup>

0.14...2.5 mm<sup>2</sup>

0.6 x 3.5

Type	Qty.	Order No.
AMG ELM-6	1	2080360000

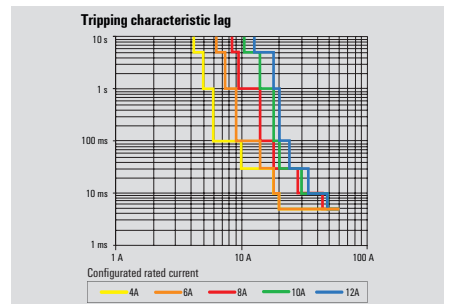
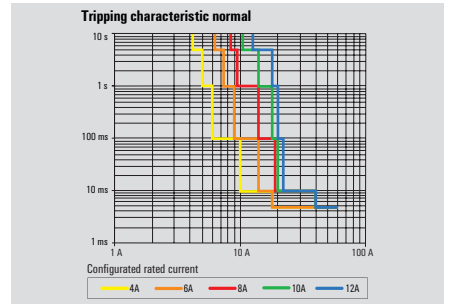
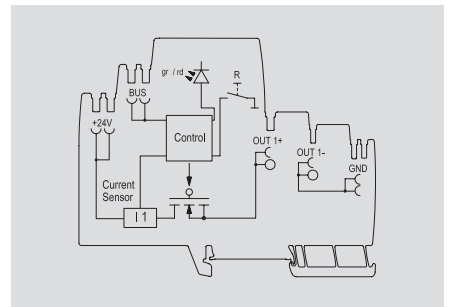
Type	Qty.	Order No.
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000



**maxGUARD – Load monitoring adjustable**

Electronic load monitoring with adjustable trigger current and characteristic (with I > 90 % pre warning)

**AMG ELM-12**



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

**Technical data**

<b>Input</b>	
Input fuse (internal)	Yes
DC input voltage range	18...30 V DC
Rated input voltage	24 V DC
Current consumption (idle)	25 mA
Current consumption (full load)	I <sub>OUT</sub> +30 mA
max. admissible residual ripple at the input	100 mVpp
<b>Output</b>	
Connection system	PUSH IN
Triggering characteristic	see characteristic curve
Backup modes	4-12 A
Switch-on delay	1 s
adjustable rated current	Yes
Capacitive load	20,000 µF
Surge protection	Suppressor diode
<b>Function key</b>	
LED initial state	LED green, in operation
Pressing the button	> 0.1 to 2 s (manual disconnect)
LED, subsequent state	LED flashing red, load monitoring has triggered (disconnected)
Output, subsequent state	LED red (permanently lit)
<b>General data</b>	
Relay to activate the output	Red LED
Protection degree	switched off
Overvoltage category	Red LED
<b>Signalling</b>	
LED green	LED green
LED red	switched on
<b>Connection data</b>	
Number of terminals	No
Wire cross-section, AWG/kcmil min/max	IP20
Wire cross-section, flexible min/max	III
Wire cross-section, rigid min/max	Operation (failure-free), Early warning: I Out > 90% I Rated (flashing)
Screwdriver blade	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
<b>Approvals</b>	
Approvals	
<b>Note</b>	

<b>LED initial state</b>		
LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
Pressing the button	> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)
LED, subsequent state	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
Output, subsequent state	LED red (permanently lit)	LED green
<b>General data</b>		
Relay to activate the output	Red LED	LED green
Protection degree	switched off	switched on
Overvoltage category	Red LED	switched on
<b>Signalling</b>		
LED green	LED green	switched on
LED red	switched on	
<b>Connection data</b>		
Number of terminals	No	
Wire cross-section, AWG/kcmil min/max	IP20	
Wire cross-section, flexible min/max	III	
Wire cross-section, rigid min/max	Operation (failure-free), Early warning: I Out > 90% I Rated (flashing)	
Screwdriver blade	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)	
<b>Approvals</b>		
Approvals		
<b>Note</b>		

**Ordering data**

<b>Rated current</b>	12.00 A
<b>Note</b>	

Type	Qty.	Order No.
AMG ELM-12	1	2080410000

**Accessories**

<b>Note</b>	
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Type	Qty.	Order No.
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000

### maxGUARD – load monitoring

Electronic load monitoring with 2-pole output relay for all pole disconnection (with I > 90 % pre warning).

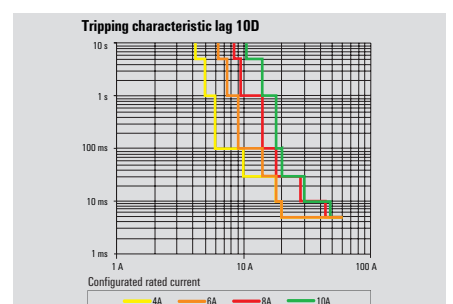
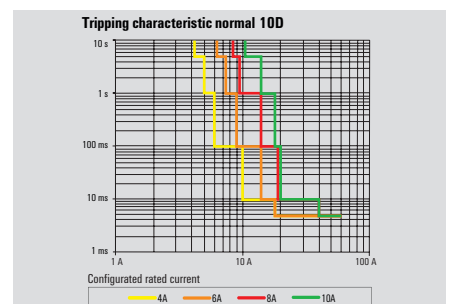
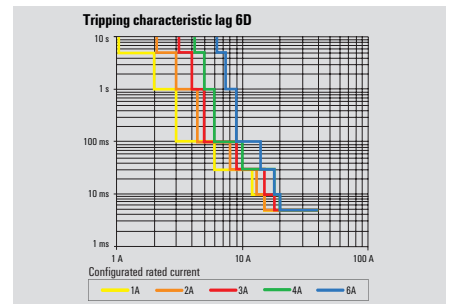
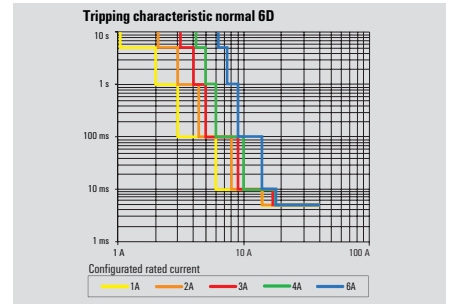
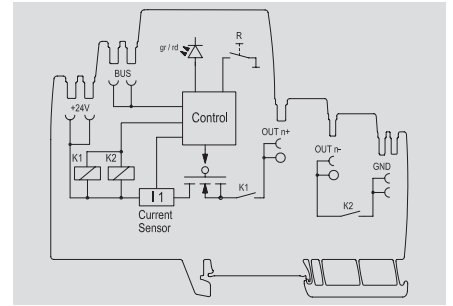
#### Technical data

<b>Input</b>	
Input fuse (internal)	Yes
DC input voltage range	18...30 V DC
Rated input voltage	24 V DC
Current consumption (idle)	40 mA
max. admissible residual ripple at the input	100 mVpp
<b>Output</b>	
Connection system	PUSH IN
Triggering characteristic	see characteristic curve
Backup modes	2082470000: 4 A, 4 A lag-tripping, 6 A, 6 A lag-tripping, 8 A, 8 A lag-tripping, 10 A, 10 A lag-tripping 2082440000: 1 A, 1 A lag-tripping, 2 A, 2 A lag-tripping, 3 A, 3 A lag-tripping, 4 A, 4 A lag-tripping, 6 A, 6 A lag-tripping
Switch-on delay	1 s
adjustable rated current	Yes
Capacitive load	20,000 µF 15,000 µF
Surge protection	Suppressor diode
<b>Function key</b>	
LED initial state	LED green, in operation      LED flashing red, load monitoring has triggered (disconnected)      LED red (permanently lit)
Pressing the button	> 0.1 to 2 s (manual disconnect)      > 0.1 to 2 s (confirm and reset)      > 0.1 to 2 s (restart)
LED, subsequent state	Red LED switched off
Output, subsequent state	Red LED switched off      LED green switched on
<b>General data</b>	
Relay to activate the output	Yes
Protection degree / Surge protection	IP20 / Suppressor diode
Conformal coating	Yes
<b>Signalling</b>	
LED green	Operation (failure-free), Early warning: I Out > 90% I Rated (flashing)
LED red	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
<b>Connection data</b>	
Number of terminals	6 (3x + / 3x -)
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5
<b>Approvals</b>	
Approvals	
<b>Note</b>	
<b>Ordering data</b>	
Rated current	6.00 A 10.00 A
<b>Note</b>	
<b>Accessories</b>	
<b>Note</b>	

### AMG ELM – adjustable with output relay



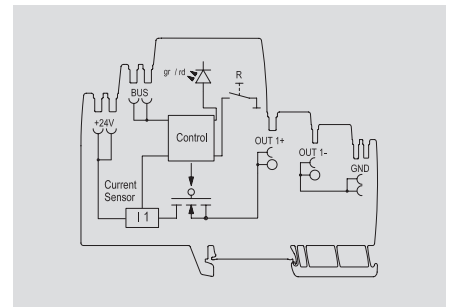
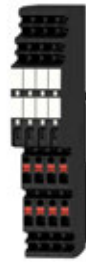
<b>Input</b>		
Yes		
18...30 V DC		
24 V DC		
40 mA		
100 mVpp		
<b>Output</b>		
PUSH IN		
see characteristic curve		
2082470000: 4 A, 4 A lag-tripping, 6 A, 6 A lag-tripping, 8 A, 8 A lag-tripping, 10 A, 10 A lag-tripping 2082440000: 1 A, 1 A lag-tripping, 2 A, 2 A lag-tripping, 3 A, 3 A lag-tripping, 4 A, 4 A lag-tripping, 6 A, 6 A lag-tripping		
1 s		
Yes		
20,000 µF 15,000 µF		
Suppressor diode		
LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)	> 0.1 to 2 s (restart)
Red LED switched off	Red LED switched off	LED green switched on
<b>General data</b>		
Yes		
IP20 / Suppressor diode		
Yes		
Operation (failure-free), Early warning: I Out > 90% I Rated (flashing)		
Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)		
<b>Connection data</b>		
6 (3x + / 3x -)		
26...12		
0.14...2.5 mm <sup>2</sup>		
0.14...2.5 mm <sup>2</sup>		
0.6 x 3.5		
<b>Approvals</b>		
Approvals		
<b>Note</b>		
<b>Ordering data</b>		
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
AMG ELM-6D CO	1	2082440000
AMG ELM-10D CO	1	2082470000
<b>Accessories</b>		
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000
<b>Note</b>		



### maxGUARD – Load monitoring 4-channel

4-channel electronic load monitoring with fixed triggering current (without I > 90 % pre warning).

### AMG ELM 4-channel fixed value variants



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

#### Technical data

Input	
Input fuse (internal)	Yes
DC input voltage range	18...30 V DC
Rated input voltage	24 V DC
Current consumption (idle) / Current consumption (full load)	35 mA / 4x I <sub>OUT</sub> +45 mA
max. admissible residual ripple at the input	100 mVpp
Output	
Connection system	PUSH IN
Triggering characteristic	see characteristic curve
Switch-on delay	1 s
adjustable rated current	No
Capacitive load	10,000 µF
Surge protection	Suppressor diode
Rated current per channel	2080750000: 2 A; 2 A; 2 A; 2 A 2081650000: 2 A; 2 A; 4 A; 4 A 2081820000: 2 A; 2 A; 6 A; 6 A 2080880000: 4 A; 4 A; 4 A; 4 A 2080920000: 6 A; 6 A; 6 A; 6 A

Number of channels

Function key			
LED initial state	LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
Pressing the button	> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)	> 0.1 to 2 s (restart)

LED, subsequent state  
Output, subsequent state

General data		
Relay to activate the output	Red LED	LED green
Protection degree / Overvoltage category	switched off	switched on
IP20 / III	No	Operation (failure-free)
Signalling	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)	

#### Connection data

Number of terminals	8 (4x + / 4x -)
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5

#### Approvals

Approvals	
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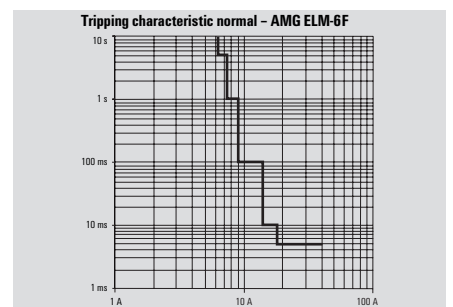
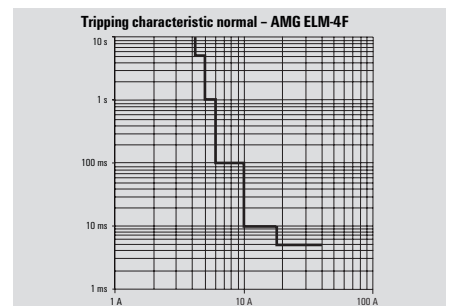
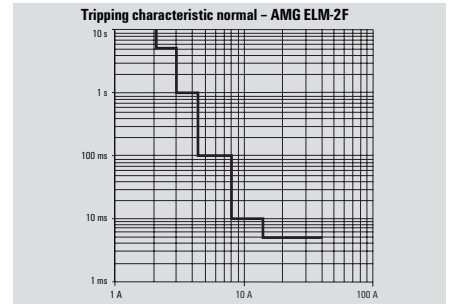
#### Note

#### Ordering data

Rated current	
Type	Qty. Order No.
AMG ELM-Q2222	1 2080750000
AMG ELM-Q2244	1 2081650000
AMG ELM-Q2266	1 2081820000
AMG ELM-Q4444	1 2080880000
AMG ELM-Q6666	1 2080920000
Note	

#### Accessories

Type	
Type	Qty. Order No.
AMG XMD	10 2122940000
Note	



**maxGUARD – Alarm module**

Alarm module with floating contacts for „alarm“ and „I>90 %“ signals.

**Technical data**

<b>Input</b>
Input fuse (internal)
DC input voltage range
Rated input voltage
Current consumption (idle)
Current consumption (full load)
max. admissible residual ripple at the input
Surge protection
<b>General data</b>
Protection degree
Overvoltage category
<b>Signalling</b>
LED yellow
LED red
Floating contact
Status relay (max. load)
<b>Connection data</b>
Number of terminals
Wire cross-section, AWG/kcmil min/max
Wire cross-section, flexible min/max
Wire cross-section, rigid min/max
Screwdriver blade
<b>Approvals</b>
Approvals
<b>Note</b>

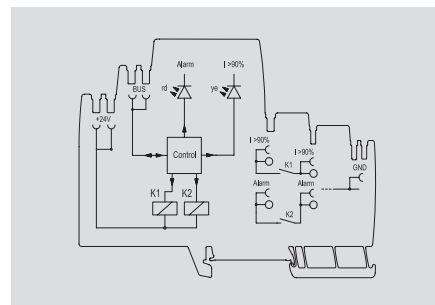
**Ordering data**

<b>Rated current</b>
<b>Note</b>

**Accessories**

<b>Pluggable cross-connection</b>	
	50-pole
	50-pole / red
	50-pole / blue
	2-pole
	2-pole/ red
	2-pole / blue
<b>Note</b>	

**AMG AM**



No
18...30 V DC
24 V DC
25 mA
30 mA
100 mVpp
Suppressor diode
<b>General data</b>
IP20
III
<b>Signalling</b>
Current > 90% Inom (flashing)
Alarm
Yes
Alarm (24 V / 0.1 A), I > 90% (24 V / 0.1 A)
<b>Connection data</b>
4 (2 x NO)
26...12
0.14...2.5 mm <sup>2</sup>
0.14...2.5 mm <sup>2</sup>
0.6 x 3.5
<b>Approvals</b>
Approvals
<b>Note</b>

Type	Qty.	Order No.
AMG AM	1	2081890000

Type	Qty.	Order No.
ZQV 4N/50	5	1528130000
ZQV 4N/50 RD	5	2460730000
ZQV 4N/50 BL	5	1528240000
ZQV 4N/2	60	1527930000
ZQV 4N/2 RD	60	2460450000
ZQV 4N/2 BL	60	1528040000

Technical data

Machinery

Process

Energy

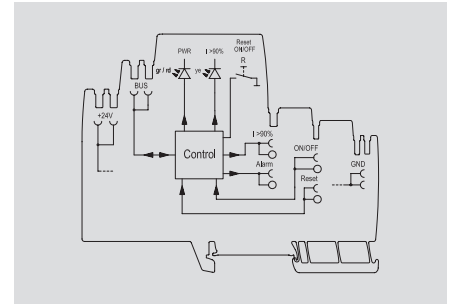
Transportation

Device Manufacturers

### maxGUARD – Control module

Control module with extended control functions: Alarm, Reset, I>90 %, ON/OFF

### AMG CM



#### Technical data

Input	
DC input voltage range	18...30 V DC
Rated input voltage	24 V DC
Current consumption (idle)	25 mA
Current consumption (full load)	225 mA
max. admissible residual ripple at the input	100 mVpp
Output	
Connection system	PUSH IN
Surge protection	Suppressor diode
General data	
Relay to activate the output	No
Protection degree	IP20
Control inputs	ON/ OFF, Reset
Overvoltage category	III
Signalling	
LED green	Operation (failure-free), Early warning: I Out > 90% I Rated (flashing)
LED red	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
Transistor output, positive-switching	Pre-warning, Alarm
Connection data	
Number of terminals	2 (Reset / ON)
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5
Approvals	
Approvals	
Note	

Type	Qty.	Order No.
AMG CM	1	2081900000

#### Ordering data

Rated current	
Note	

Type	Qty.	Order No.
AMG CM	1	2081900000

#### Accessories

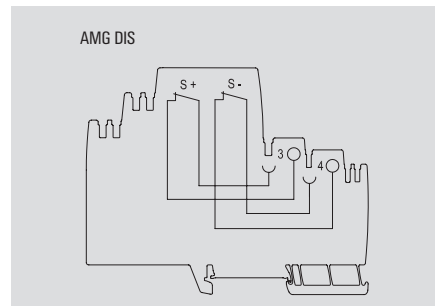
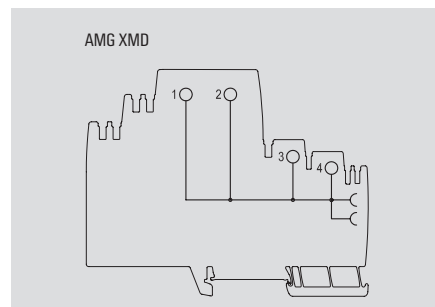
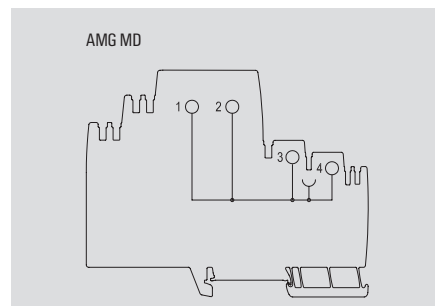
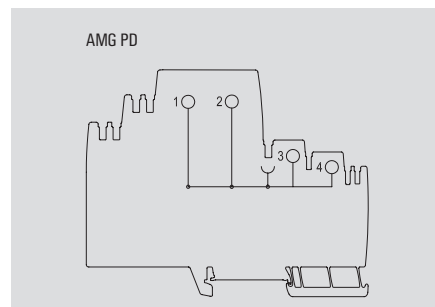
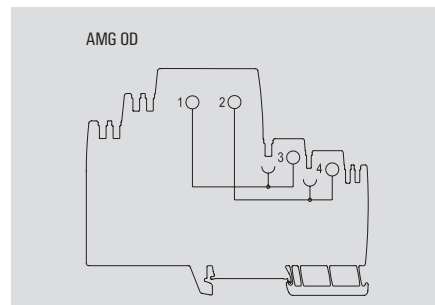
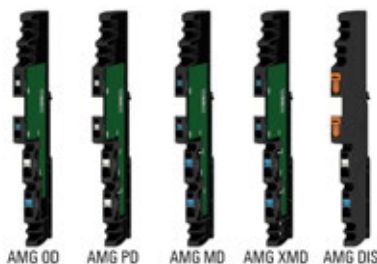
Pluggable cross-connection	
50-pole	ZQV 4N/50
50-pole / red	ZQV 4N/50 RD
50-pole / blue	ZQV 4N/50 BL
2-pole	ZQV 4N/2
2-pole/ red	ZQV 4N/2 RD
2-pole / blue	ZQV 4N/2 BL
Note	

Type	Qty.	Order No.
ZQV 4N/50	5	1528130000
ZQV 4N/50 RD	5	2460730000
ZQV 4N/50 BL	5	1528240000
ZQV 4N/2	60	1527930000
ZQV 4N/2 RD	60	2460450000
ZQV 4N/2 BL	60	1528040000

**maxGUARD – Potential distributor**

Potential distribution in combination with the electronic load monitoring.

**AMG**



**Technical data**

<b>General data</b>	
Protection degree	IP20
Total current load per potential	2122910000: 12 A; 2122920000: 12 A; 2122930000: 12 A; 2122940000: 24 A; 2123050000: 12 A
Current load per contact point	12 A
<b>Connection data</b>	
Connection system	PUSH IN
Number of terminals	4 ( ++ / - ), 2 x 1.5 mm <sup>2</sup> , 2 x 2.5 mm <sup>2</sup>
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5
<b>Approvals</b>	
Approvals	
<b>Note</b>	

**Ordering data**

<b>Note</b>	
-------------	--

**Accessories**

<b>Pluggable cross-connection</b>	
50-pole	
50-pole / red	
50-pole / blue	
2-pole	
2-pole / red	
2-pole / blue	
<b>Note</b>	

<b>Technical data</b>		
IP20		
2122910000: 12 A;		
2122920000: 12 A;		
2122930000: 12 A;		
2122940000: 24 A;		
2123050000: 12 A		
12 A		
<b>Connection data</b>		
PUSH IN		
4 ( ++ / - ), 2 x 1.5 mm <sup>2</sup> , 2 x 2.5 mm <sup>2</sup>		
26...12		
0.14...2.5 mm <sup>2</sup>		
0.14...2.5 mm <sup>2</sup>		
0.6 x 3.5		
<b>Approvals</b>		
<b>Note</b>		

Type	Qty.	Order No.
AMG OD	10	2122910000
AMG PD	10	2122920000
AMG MD	10	2122930000
AMG XMD	10	2122940000
AMG DIS	10	2123050000

Type	Qty.	Order No.
ZQV 4N/50	5	1528130000
ZQV 4N/50 RD	5	2460730000
ZQV 4N/50 BL	5	1528240000
ZQV 4N/2	60	1527930000
ZQV 4N/2 RD	60	2460450000
ZQV 4N/2 BL	60	1528040000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Technical data

Machinery

Process

Energy

Transportation

Device  
Manufacturers

maxGUARD - Accessories

Cross-connections orange

Cross-connections blue

Cross-connections red



	Type	Qty.	Order No.
2-pin	ZQV 4N/2	60	1527930000
3-pin	ZQV 4N/3	60	1527940000
4-pin	ZQV 4N/4	60	1527970000
5-pin	ZQV 4N/5	60	1527980000
6-pin	ZQV 4N/6	20	1527990000
7-pin	ZQV 4N/7	20	1528020000
8-pin	ZQV 4N/8	20	1528030000
9-pin	ZQV 4N/9	20	1528070000
10-pin	ZQV 4N/10	20	1528090000
50-pin	ZQV 4N/50	5	1528130000

	Type	Qty.	Order No.
	ZQV 4N/2 BL	60	1528040000
	ZQV 4N/3 BL	60	1528080000
	ZQV 4N/4 BL	60	1528120000
	ZQV 4N/5 BL	60	1528140000
	ZQV 4N/6 BL	20	1528170000
	ZQV 4N/7 BL	20	1528180000
	ZQV 4N/8 BL	20	1528190000
	ZQV 4N/9 BL	20	1528220000
	ZQV 4N/10 BL	20	1528230000
	ZQV 4N/50 BL	5	1528240000

	Type	Qty.	Order No.
	ZQV 4N/2 RD	60	2460450000
	ZQV 4N/3 RD	60	2460810000
	ZQV 4N/4 RD	60	2460800000
	ZQV 4N/5 RD	60	2460790000
	ZQV 4N/6 RD	20	2460780000
	ZQV 4N/7 RD	20	2460770000
	ZQV 4N/8 RD	20	2460760000
	ZQV 4N/9 RD	20	2460750000
	ZQV 4N/10 RD	20	2460740000
	ZQV 4N/50 RD	5	2460730000

maxGUARD - Accessories

Partition plate

End bracket

Cutting tool for cross-connectors



Type	Qty.	Order No.
AMG PP	40	2123000000

Type	Qty.	Order No.
WEW 35/2 SW	100	1061210000

Type	Qty.	Order No.
KT 14	1	1157820000





Device  
Manufacturers



Transportation



Energy



Process



Machinery

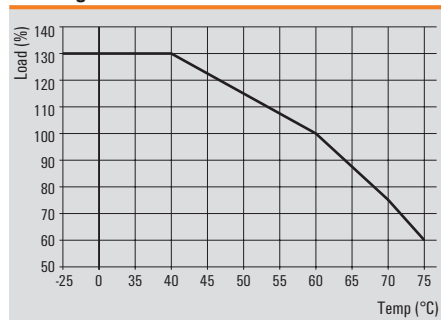
Technical data

**PROtop**

- DCL technology for an excellent dynamic range
- High energy efficiency (up to 94,5 % efficiency)
- Mode of operation: single or parallel operation and adjustable short circuit behavior (continuous current or switch-off)
- Long service life of up to 10 years, MTBF > 1,000,000 h.
- Extremely slim design
- Time-saving PUSH IN connection technology



**Derating curve**



**preliminary technical data**

<b>General data</b>	
Insulation voltage input / earth	4 kV
Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	4 kV
Earth leakage current, max.	3.5 mA
Series switching capability	Yes
Ambient temperature (operational) / Storage temperature	-25 °C...75 °C / -40 °C...85 °C
Humidity at operating temperature	5...95 %, no condensation
Class of protection / Pollution degree	I, with PE connection / 2
MTBF	> 1.000.000 h according IEC 1709 (SN29500)
Housing version	Metal, corrosion resistant
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ, 10 mm clearance to neighboring active components at full load, 5 mm clearance to neighboring passive components, can be mounted side by side with no space at 90 % nominal load
<b>EMC / shock / vibration</b>	
Interference immunity test acc. to	EN 55024, EN 55022, IEC61000-3-2,-3, IEC61000-4-2,-3,-4,-5,-6,-8,-11
Shock	30 g in all directions
Resistance to vibration	2,3 g (mounted on DIN rail), 4 g (plate mounted)
<b>Electrical safety (applied standards)</b>	
Electrical machine equipment	Acc. to EN60204
Safety transformers for switch-mode power supplies	Acc. to EN 61558-2-17
For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV acc. to EN60950, PELV acc. to EN60204
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

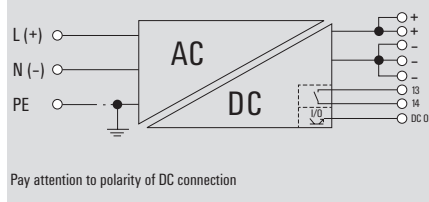
**PROtop**

- 1-phase power supplies

**PRO TOP 72 W 24 V 3 A**



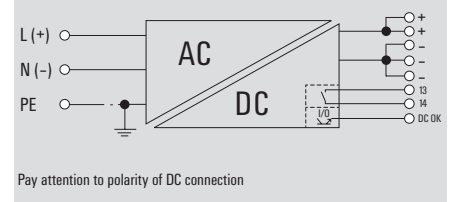
Similar to illustration



**PRO TOP 120 W 24 V 5 A**



Similar to illustration



**Technical data**

<b>Input</b>	
Rated input voltage	
Input voltage range AC	
Frequency range AC	
DC input voltage range	
Input fuse (internal) / Inrush current	
<b>Output</b>	
Rated output voltage	
Output voltage	
DCL Boost	
Residual ripple, breaking spikes	
Power boost @ $U_{Nom}$	
Rated (nominal) output current @ $U_{Nom}$	
<b>General data</b>	
Derating	
Series switching capability	
Degree of efficiency	
Power factor (approx.)	
AC failure bridging time @ $I_{Nom}$	
LED green/red	
Parallel connection option	
Depth x width x height	
Weight	
<b>Approvals</b>	
Approvals	

**preliminary technical data!**

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
48 ... 410 V DC
Yes / max. 5 A
24 V DC $\pm$ 1 %
22.5...29 V
150 % (5 s); 400 % (20 ms)
< 50 mVss @ $U_{Nom}$ , Full Load
130 % continuously at $\leq$ 40 °C
3 A @ 60 °C
> 60 °C (2.5 % / 1 °C)
Yes
typ. 90 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Passive Current Sharing
125 / 35 / 130 mm
710 g

**preliminary technical data!**

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
48 ... 410 V DC
Yes / max. 5 A
24 V DC $\pm$ 1 %
22.5...29 V
150 % (5 s); 600 % (20 ms)
< 50 mVss @ $U_{Nom}$ , Full Load
130 % continuously at $\leq$ 40 °C
5 A @ 60 °C
> 60 °C (2.5 % / 1 °C)
Yes
typ. 91 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Passive Current Sharing
125 / 35 / 130 mm
775 g

**Connection data**

Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm <sup>2</sup>
Wire cross-section, flexible min/max	mm <sup>2</sup>
Wire cross-section, AWG/kcmil min/max	

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ / - / -)
0.5 / 2.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ / - / -)
0.5 / 2.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

**Note**

**Ordering data**

Type	Qty.	Order No.
PRO TOP 72W 24V 3A	1	2466850000

Type	Qty.	Order No.
PRO TOP 120W 24V 5A	1	2466870000

**Note**

**Accessories**

**Note**



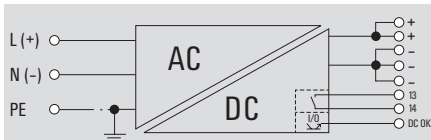
**PROtop**

- 1-phase power supplies

**PRO TOP 240 W 24 V 10 A**



Similar to illustration

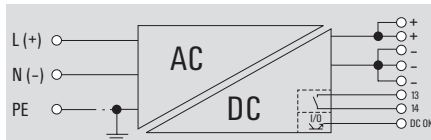


Pay attention to polarity of DC connection

**PRO TOP 480 W 24 V 20 A**



Similar to illustration



Pay attention to polarity of DC connection

**Technical data**

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	48 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29 V
DCL Boost	150 % (5 s); 600 % (20 ms)
Residual ripple, breaking spikes	< 50 mVss @ U <sub>Nom</sub> , Full Load
Power boost @ U <sub>Rated</sub>	130 % continuously at ≤ 40 °C
Rated (nominal) output current @ U <sub>Nom</sub>	10 A @ 60 °C
General data	
Derating	> 60 °C (2.5 % / 1 °C)
Series switching capability	Yes
Degree of efficiency	typ. 92,5 %
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I <sub>Nom</sub>	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Parallel connection option	Passive Current Sharing
Depth x width x height	125 / 39 / 130 mm
Weight	910 g
Approvals	
Approvals	

**preliminary technical data!**

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	48 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29 V
DCL Boost	150 % (5 s); 600 % (20 ms)
Residual ripple, breaking spikes	< 50 mVss @ U <sub>Nom</sub> , Full Load
Power boost @ U <sub>Rated</sub>	130 % continuously at ≤ 40 °C
Rated (nominal) output current @ U <sub>Nom</sub>	10 A @ 60 °C
General data	
Derating	> 60 °C (2.5 % / 1 °C)
Series switching capability	Yes
Degree of efficiency	typ. 92,5 %
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I <sub>Nom</sub>	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Parallel connection option	Passive Current Sharing
Depth x width x height	125 / 39 / 130 mm
Weight	910 g

**preliminary technical data!**

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	48 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29 V
DCL Boost	150 % (5 s); 500 % (20 ms)
Residual ripple, breaking spikes	< 50 mVss @ U <sub>Nom</sub> , Full Load
Power boost @ U <sub>Rated</sub>	130 % continuously at ≤ 40 °C
Rated (nominal) output current @ U <sub>Nom</sub>	20 A @ 60 °C
General data	
Derating	> 60 °C (2.5 % / 1 °C)
Series switching capability	Yes
Degree of efficiency	typ. 93,5 %
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I <sub>Nom</sub>	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Parallel connection option	Passive Current Sharing
Depth x width x height	125 / 68 / 130 mm
Weight	1520 g

Connection data	
Connection system	PUSH IN with actuator
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.5 / 2.5 mm <sup>2</sup>
Wire cross-section, flexible min/max	0.5 / 2.5 mm <sup>2</sup>
Wire cross-section, AWG/kcmil min/max	20 / 12

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ + / - -)
0.5 / 2.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ + / - -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

<b>Note</b>
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**Ordering data**

Type	Qty.	Order No.
PRO TOP 240W 24V 10A	1	2466880000

<b>Note</b>
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**Ordering data**

Type	Qty.	Order No.
PRO TOP 480W 24V 20A	1	2466890000

<b>Note</b>
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**Accessories**

<b>Note</b>
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<b>Note</b>
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**Accessories**

<b>Note</b>
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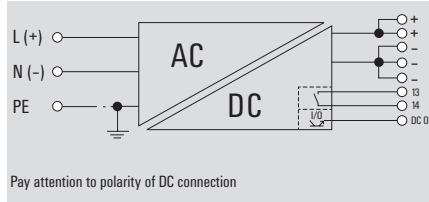
**PROtop**

- 1-phase power supplies

**PRO TOP 960 W 24 V 40 A**



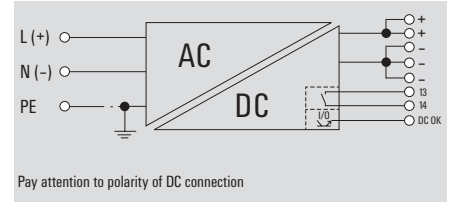
Similar to illustration



**PRO TOP 120 W 12 V 10 A**



Similar to illustration



**Technical data**

<b>Input</b>	
Rated input voltage	
Input voltage range AC	
Frequency range AC	
DC input voltage range	
Input fuse (internal) / Inrush current	
<b>Output</b>	
Rated output voltage	
Output voltage	
DCL Boost	
Residual ripple, breaking spikes	
Power boost @ $U_{Nom}$	
Rated (nominal) output current @ $U_{Nom}$	
<b>General data</b>	
Derating	
Series switching capability	
Degree of efficiency	
Power factor (approx.)	
AC failure bridging time @ $I_{Nom}$	
LED green/red	
Parallel connection option	
Depth x width x height	
Weight	
<b>Approvals</b>	
Approvals	

**preliminary technical data!**

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
48 ... 410 V DC
Yes / max. 5 A
24 V DC $\pm$ 1 %
22.5...29 V
150 % (5 s); 500 % (25 ms)
< 50 mVss @ $U_{Nem}$ , Full Load
130 % continuously at $\leq$ 40 °C
40 A @ 60 °C
> 60 °C (2.5 % / 1 °C)
Yes
typ. 94,5 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Passive Current Sharing
125 / 124 / 130 mm
2900 g

**preliminary technical data!**

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
48 ... 410 V DC
Yes / max. 5 A
12 V DC $\pm$ 1 %
11...15 V
150 % (5 s); 300 % (20 ms)
< 50 mVss @ $U_{Nem}$ , Full Load
130 % continuously at $\leq$ 40 °C
10 A @ 60 °C
> 60 °C (2.5 % / 1 °C)
Yes
typ. 91 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Passive Current Sharing
125 / 34 / 130 mm
775 g

<b>Connection data</b>	
Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm <sup>2</sup>
Wire cross-section, flexible min/max	mm <sup>2</sup>
Wire cross-section, AWG/kcmil min/max	

<b>Input</b>	<b>Output</b>
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ + / - - -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

<b>Input</b>	<b>Output</b>
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ + / - - -)
0.5 / 2.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

**Note**

**Ordering data**

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
PRO TOP 960W 24V 40A	1	246690000

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
PRO TOP 120W 12V 10A	1	246691000

**Note**

**Accessories**

**Note**



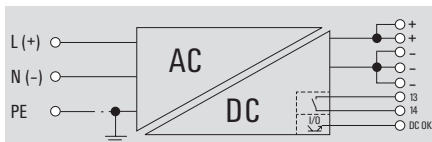
**PROtop**

- 1-phase power supplies

**PRO TOP 480 W 48 V 10 A**



Similar to illustration

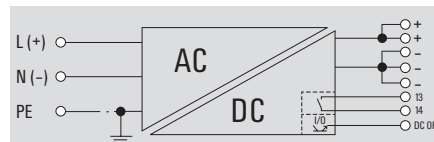


Pay attention to polarity of DC connection

**PRO TOP 960 W 48 V 20 A**



Similar to illustration



Pay attention to polarity of DC connection

**Technical data**

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	48 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL Boost	150 % (5 s); 500 % (20 ms)
Residual ripple, breaking spikes	< 50 mVss @ U <sub>Nom</sub> , Full Load
Power boost @ U <sub>Rated</sub>	130 % continuously at ≤ 40 °C
Rated (nominal) output current @ U <sub>Nom</sub>	10 A @ 60 °C
General data	
Derating	> 60 °C (2.5 % / 1 °C)
Series switching capability	Yes
Degree of efficiency	typ. 93,5 %
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I <sub>Nom</sub>	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Parallel connection option	Passive Current Sharing
Depth x width x height	125 / 68 / 130 mm
Weight	1520 g
Approvals	
Approvals	

**preliminary technical data!**

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	48 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL Boost	150 % (5 s); 500 % (20 ms)
Residual ripple, breaking spikes	< 50 mVss @ U <sub>Nom</sub> , Full Load
Power boost @ U <sub>Rated</sub>	130 % continuously at ≤ 40 °C
Rated (nominal) output current @ U <sub>Nom</sub>	10 A @ 60 °C
General data	
Derating	> 60 °C (2.5 % / 1 °C)
Series switching capability	Yes
Degree of efficiency	typ. 93,5 %
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I <sub>Nom</sub>	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Parallel connection option	Passive Current Sharing
Depth x width x height	125 / 68 / 130 mm
Weight	1520 g

**preliminary technical data!**

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	48 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL Boost	150 % (5 s); 300 % (25 ms)
Residual ripple, breaking spikes	< 50 mVss @ U <sub>Nom</sub> , Full Load
Power boost @ U <sub>Rated</sub>	130 % continuously at ≤ 40 °C
Rated (nominal) output current @ U <sub>Nom</sub>	20 A @ 60 °C
General data	
Derating	> 60 °C (2.5 % / 1 °C)
Series switching capability	Yes
Degree of efficiency	typ. 94,5 %
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I <sub>Nom</sub>	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Green flashing: prewarning, Green/Red flashing: Powerboost, Red flashing: overload/failure
Parallel connection option	Passive Current Sharing
Depth x width x height	125 / 124 / 130 mm
Weight	2900 g

Connection data	
Connection system	PUSH IN with actuator
Number of terminals	5 (+ + / - - -)
Wire cross-section, rigid min/max	0.2 / 10
Wire cross-section, flexible min/max	0.2 / 6
Wire cross-section, AWG/kcmil min/max	20 / 8

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ + / - - -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ + / - - -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

<b>Note</b>
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**Ordering data**

Type	Qty.	Order No.
PRO TOP 480W 48V 10A	1	2467030000

<b>Note</b>
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**Ordering data**

Type	Qty.	Order No.
PRO TOP 960W 48V 20A	1	2466920000

<b>Note</b>
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**Accessories**

<b>Note</b>
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<b>Note</b>
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**Accessories**

<b>Note</b>
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Technical data

Machinery



Process



Energy



Transportation



Device  
Manufacturers



**PROFINET**

**Remote I/O for digital signal conditioning**



**UR67-PN-HP-8IOL-12-30M**



**UR67-PN-HP-8IOL-12-60M**



**Ordering data**

Module variants
IO-Link, 4x Type A, 4x Type B
Note

Type	Qty.	Order No.
UR67-PN-HP-8IOL-12-30M	1	2426250000
Note		

Type	Qty.	Order No.
UR67-PN-HP-8IOL-12-60M	1	2426260000
Note		

Connections
Fieldbus (BUS-IN)
Fieldbus (BUS-OUT)
Supply voltage (AUX-IN)
Supply voltage (AUX-OUT)
I/O connections
Voltage supply
Operating voltage
Power consumption of module electronics
Digital inputs
IO link standard
Galvanic isolation
Input current, low
Input current, high
Reverse polarity protection
Short-circuit protection
Overload protection
Status indicator
Diagnosis indication
Digital outputs
max. current-carrying capacity per output signal
Output voltage, low
Output voltage, high
Max. total current outputs
Reverse polarity protection
Short-circuit protection
Overload protection
Status indicator
Diagnosis indication
Fieldbus
Bus system
Transmission rate
Addressing
General data
L x W x H
Weight
Protection degree
Operating temperature
Housing main material / UL 94 flammability rating

1x M12 female 4-pole, D-coded
1x M12 female 4-pole, D-coded
1x M12 plug 5-pole, L-coded
1x M12 socket 5-pole, L-coded
8 x M12 socket 5-pole, A-coded
24 V (18 V DC ... 30 V DC)
160 mA typical
IO-Link v.1.1, IEC 61131-9
2000 V DC
Type 1 in acc. with IEC 61131-2
Type 1 in acc. with IEC 61131-2
Yes
Yes
Yes
Per channel, via LED, yellow
Per channel, via LED, red
0.5 A, 2 A
- 1 V
max. 2 V
9 A
Yes
Yes
Yes
Per channel, via LED, yellow
Per channel, via LED, red
PROFINET V2.3
10/100 Mbit/s
DCP
225 mm / 30 mm / 30 mm
480 g
IP67
-20 °C...70 °C
Zinc diecast / UL 94

1x M12 female 4-pole, D-coded
1x M12 female 4-pole, D-coded
1x M12 plug 5-pole, L-coded
1x M12 socket 5-pole, L-coded
8 x M12 socket 5-pole, A-coded
24 V (18 V DC ... 30 V DC)
160 mA typical
IO-Link v.1.1, IEC 61131-9
2000 V DC
Type 1 in acc. with IEC 61131-2
Type 1 in acc. with IEC 61131-2
Yes
Yes
Yes
Per channel, via LED, yellow
Per channel, via LED, red
0.5 A, 2 A
- 1 V
max. 2 V
9 A
Yes
Yes
Yes
Per channel, via LED, yellow
Per channel, via LED, red
PROFINET V2.3
10/100 Mbit/s
DCP
200 mm / 59.6 mm / 17.6 mm
500 g
IP67
-20 °C...70 °C
Zinc diecast / UL 94

Note
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Note
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Note
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## POWERLINK

- 2 x 10 A current paths
- Address can be set using rotary switch
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C

## UR20-FBC-PL



### Technical data

System data	
Connection type	2 x RJ45 plug-in connectors
Field bus protocol	POWERLINK
Process data	2980 Byte
Parameter data	4 kByte
Diagnostic data	3008 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage system and inputs	24 V DC +20%/-15%
Supply voltage for outputs	24 V DC +20%/-15%
Feed current for I <sub>IN</sub> (input current path) , max.	10 A
Feed current for I <sub>OUT</sub> (output current path) , max.	10 A
Current consumption I <sub>IN</sub> (power segment of the field bus coupler), typ.	100 mA
General data	
Weight	224 g
Dimensions (H x W x D)	120 mm / 52 mm / 76 mm
Note	
Download of XDD-files on <a href="http://www.weidmueller.com">www.weidmueller.com</a>	

### Ordering data

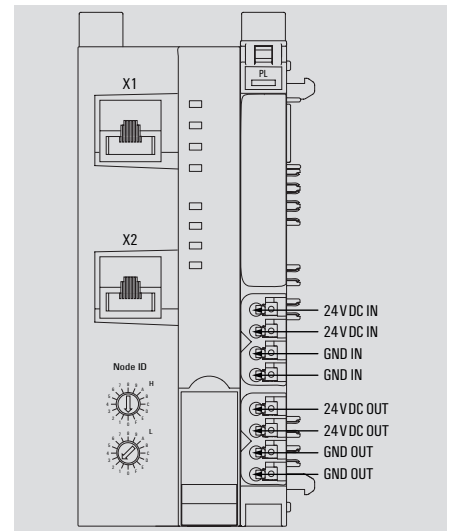
Module variants	
Type	UR20-FBC-PL
Qty.	1
Order No.	1334940000
A termination kit (UR20-EBK-ACC) is included in the coupler package	
Note	

### Accessories

Type	Qty.	Order No.
Coding elements	100	1483050000
Termination kit	5	1346610000
Swivel marker	20	1339920000
Connection marker for pusher custom printing	192	1323700000
Connection marker for pusher neutral	960	1323710000
Module marker for custom printing	100	1341610000
Module marker for neutral	500	1341630000
Thermotransfer version (Material: Polyester)	1	1429910000
Thermotransfer version (Material: Polyester)	1	1429420000
Paper version for Laserprinter	10	1429430000
USB cable (USB A to Micro USB)	1	1487980000
Replacement parts		
Plug-in connector unit	5	2425170000
Note		

Type	Qty.	Order No.
UR20-FBC-PL	1	1334940000
A termination kit (UR20-EBK-ACC) is included in the coupler package		
Note		

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts		
UR20-PK-1334940000-SP	5	2425170000
Note		



Product standard	IEC 61131-2, IEC61010-2-201
EMC	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-1334940000



Let's connect.

### 2AI-SG-24-DIAG

- 2 differential inputs for strain gauge
- 24-bit resolution
- 4- or 6-wire connection
- Accuracy ±0.01% FSR
- Individual channel diagnosis

#### Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Supply voltage	24 V DC +20%/-15%, via the system bus
Current consumption I <sub>m</sub> (power segment of the field bus coupler), typ.	8 mA
Current consumption I <sub>m</sub> (the respective power segment)	35 mA
Analogue inputs	
Number	2
Input value	Differential, to evaluate a strain gauge full-bridge
Resolution	24 Bit per channel
Accuracy	Customer calibration: ±0,01 % FSR (100 ppm), ± 1 % FSR (during interference)
Supported sensor sensitivity	0.5 mV...30 V, parametrisable
Temperature coefficient	< 10 ppm/K
Permissible sensor load	85 ... 5000 Ω
Conversion time	5...800 ms, parametrisable
Measurement range	± 150 mV
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
Digital inputs	
Input filter	10 ms
Input voltage, high	> 11 V
Input voltage, low	< 5 V
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
Module diagnosis	Yes
Type	Types 1 and 3, EN 61131-2
General data	
Weight	90 g
Dimensions (H x W x D)	11.5 mm / 120 mm / 76 mm
Note	

#### Ordering data

Module variants	
	Strain gauge module, 2 channels
Note	

#### Accessories

	Coding elements
	Termination kit
	Swivel marker
Connection marker for pusher custom printing	
Connection marker for pusher neutral	
Module marker for custom printing	
Module marker for neutral	
Thermotransfer version (Material: Polyester)	
Thermotransfer version (Material: Polyester)	
	Paper version for Laserprinter
Replacement parts	
	Electronic module
	Basic module
	Plug-in connector unit
Note	

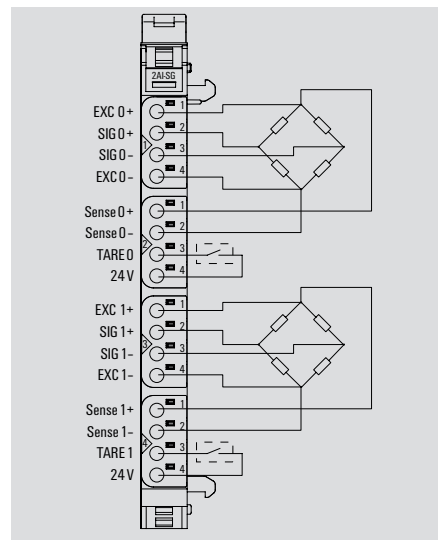
### UR20-2AI-SG-24-DIAG



	u-remote system bus
	48 Mbit
	500 V DC between the current paths
	24 V DC +20%/-15%, via the system bus
	8 mA
	35 mA
	2
	Differential, to evaluate a strain gauge full-bridge
	24 Bit per channel
	Customer calibration: ±0,01 % FSR (100 ppm), ± 1 % FSR (during interference)
	0.5 mV...30 V, parametrisable
	< 10 ppm/K
	85 ... 5000 Ω
	5...800 ms, parametrisable
	± 150 mV
	Yes
	Yes
	Yes
	10 ms
	> 11 V
	< 5 V
	Yes
	Yes
	Yes
	Types 1 and 3, EN 61131-2
	90 g
	11.5 mm / 120 mm / 76 mm

Type	Qty.	Order No.
UR20-2AI-SG-24-DIAG	1	1990070000

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
UR20-EM-1315620000-SP	1	1347200000
UR20-BM-SP	5	1350930000
UR20-PK-1315620000-SP	5	1484020000



Product standard	IEC 61131-2, IEC61010-2-201
EMC	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-1334940000



Let's connect.

**1COM-232-485-422**

- Interface for RS232, RS485 and RS422 peripherals
- Adjustable transfer rate
- Galvanic isolation of the signals in the module
- Separate power supply for external peripheral to the module

**UR20-1COM-232-485-422**



**Technical data**

<b>System data</b>	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
<b>Supply</b>	
Supply voltage	24 V DC +20%/-15%, via the system bus
Current consumption I <sub>m</sub> (power segment of the field bus coupler), typ.	8 mA
Current consumption I <sub>m</sub> (the respective power segment)	50 mA + load
<b>RS Interface</b>	
Number	1
Connection type	1x RS232 / 1x RS485/422
Transmission rate	configurable, 300...115200 Bit/s
Output current, supply voltage	0.5 A
Standards RS232	DIN 66020, DIN 66259, EIA-RS 232C, CCITT V.24/V.28
Standards RS485/422	DIN 66259 Part 1 und 3, EIA-RS 422/485, CCITT V.11
Short-circuit-proof	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
<b>General data</b>	
Weight	92 g
Dimensions (H x W x D)	120 mm / 11.5 mm / 76 mm
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
UR20-1COM-232-485-422	1	1315750000

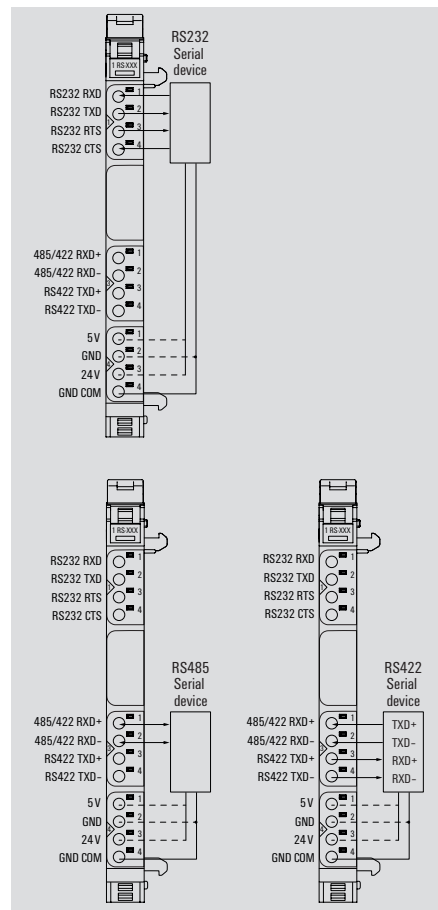
**Ordering data**

<b>Module variants</b>	
RS232/RS485/RS422 communication module	
<b>Note</b>	

**Accessories**

Coding elements	
Termination kit	
Swivel marker	
Connection marker for pusher custom printing	
Connection marker for pusher neutral	
Module marker for custom printing	
Module marker for neutral	
Thermotransfer version (Material: Polyester)	
Thermotransfer version (Material: Polyester)	
Paper version for Laserprinter	
<b>Replacement parts</b>	
Electronic module	
Basic module	
Plug-in connector unit	
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
UR20-EM-1315750000-SP	1	1347350000
UR20-BM-SP	5	1350930000
UR20-PK-1315750000-SP	5	2425150000



Product standard	IEC 61131-2, IEC61010-2-201
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-2007430000



Let's connect.

Technical data  
 Machinery  
 Process  
 Energy  
 Transportation  
 Device Manufacturers

### FieldPower® IP54 enclosure for u-remote

- For the integration of
- a fieldbus coupler
  - up to three modules
  - a PE terminal ZPE 2.5

Slit multiple-cable seals allow for the use of pre-assembled cables.

- Up to twelve M8 and M12 cables
- Two network cables
- Two 24 V power supply cables

#### Technical data

Protection degree
Ambient temperature
Material
Halogen / Silicone
Dimensions
Lid attachment
<b>Note</b>

#### Ordering data

Enclosure with DIN rail
<b>Note</b>

#### Accessories

Multiple seal insert, slit 4 x 4mm
Multiple seal insert, slit 2 x 6.5mm
Round-cable seal, slit 1 x 15 - 17mm
Blanking seal
Round-cable seal, slit 1 x 7.5 - 9mm
Round-cable seal, slit 1 x 9 - 11mm
Round-cable seal, slit 1 x 11 - 13mm
Round-cable seal, slit 1 x 13 - 15mm
Round-cable seal, not slit 2 x 8.5mm
Protective earth terminal
<b>Note</b>

### FP-Box GK for u-remote



IP54
-20 °C...+45 °C
Polycarbonate
/ No
181 / 192 / 129
Cross-head screws PZ2
Temperature range dependent on the power loss of the installed modules

Type	Qty.	Order No.
FP-Box GK for Uremote	1	8000025773
Cable seals have to be ordered separately		

Type	Qty.	Order No.
RKDG E D4X4 PT6	10	2443760000
RKDG E D2X6,5 PT6	10	2443800000
RKDG D17 PT6	10	4324010000
DG D0 PT6	10	4323240000
RKDG D9 PT6	10	4329610000
RKDG D11 PT6	10	4323210000
RKDG D13 PT6	10	4323230000
RKDG D15 PT6	10	4323220000
RKDG 2XD8.5 WVG PT6	10	1114530000
ZPE 2.5	100	1608640000
The round cable seal RKDG D17 PT6 - 4324010000 is at the same time a support seal for multiple sealing inserts.		

#### Cables for IP54 with multiple seal insert 4 x 4 mm

Sensor-actuator cables Ø 4 mm  
M8 cables, 3-pole unshielded, halogen-free PUR  
Type: SAIL-M8...-3...U

M12 cables, 3-pole unshielded, halogen-free PUR  
Type: SAIL-M12BG-3...U

#### Cables for IP54 with multiple seal insert 2 x 6.5 mm

IE cable Ø 6.5 mm  
Type: IE-C5DD4UG.....

24 V cable Ø 6.5 mm  
E.g. Lapp Ölflex Classic 110 3G1.5

#### Example configuration Ambient temperature + 45 °C

PN coupler  
8DI (8 x 50 mA) and 4DO (4 x 500 mA)



### FieldPower® Box with maintenance switch and fuses

- 5-pole power distribution 3~, N, PE
- Lockable maintenance switch acc. to IEC 60947-3
- Fuse terminal block for three safety fuses
- With local LED failure indicator and failure message via M12 (PIN 1 = external 24 V DC ± 20%, PIN 2 = switch, PIN 3 = GND, PIN 4 = fuse)
- Depending on configuration for safety fuses type CC or type 10 x 38 mm (max. 32 A)
- Max. 3 W for gG/gL, max. 1.2 W for aM depending on the ambient temperature

### FP Box ON/OFF16A FUSE R



#### Technical data

General data	
Dimensions	181 / 192 / 165 mm
Ambient temperature	-25 °C...+45 °C
Temperature range, assembly, min. / max.	10...40 °C
Storage temperature	-25 °C...70 °C
Material colour	Black
Protection degree	IP65
Insulating material	Polycarbonate
UL 94 flammability rating	5VA
Rated voltage	400 V
Rated impulse withstand voltage	4 kV
IDC connection for power distribution	
Rated current	41 A
Rated current branch	16 A
Clamping range, rated connection, min./max.	2.5 / 6 mm <sup>2</sup>
Blade size	0.6 x 3.5 mm
PUSH IN connection distribution	
Clamping range, rated connection, min./max.	0.5...6 mm <sup>2</sup>
Connection cross-section, flexible, min. / max.	0.5...10 mm <sup>2</sup>
Blade size	0.6 x 3.5 mm
Stripping length, PUSH IN connection	14 mm
Technical data switch	
Rated current AC-23A	16 A
Clamping range, rated connection, min./max.	0.75 / 10 mm <sup>2</sup>
Terminals - torque	0.8 Nm
Technical data of fuse holder	
Cartridge fuse	10 x 38 mm
<b>Note</b>	

#### Ordering data

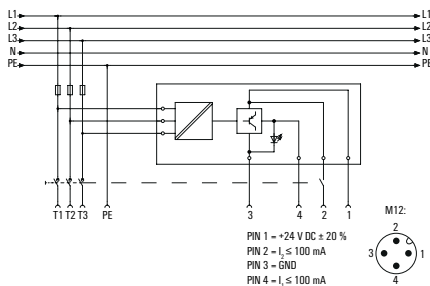
Type	Qty.	Order No.
FP Box ON/OFF16A FUSE R	1	8000028513

Included in delivery: three 10 x 38 safety fuses 16 A gG; six enclosure seals: 3x 432324000, 2x 432323000, 1x 432321000

#### Accessories

Type	Qty.	Order No.
Blanking seal	10	4323240000
Round-cable seal, slit 1x 7.5 - 9mm	10	4329610000
Round-cable seal, slit 1x 9 - 11mm	10	4323210000
Round-cable seal, slit 1x 11 - 13mm	10	4323230000
Round-cable seal, slit 1x 13 - 15mm	10	4323220000
Round-cable seal, slit 1x 15 - 17mm	10	4324010000
<b>Note</b>		

Type	Qty.	Order No.
DG D0 PT6	10	4323240000
RKDG D9 PT6	10	4329610000
RKDG D11 PT6	10	4323210000
RKDG D13 PT6	10	4323230000
RKDG D15 PT6	10	4323220000
RKDG D17 PT6	10	4324010000
<b>Note</b>		





Device  
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

FieldPower® power supply 24 V / 10 A

FP Box SNT10A ... PT6



Technical data

Dimensions	181 / 192 / 170 mm
Operating temperature	-30 °C...50 °C
Storage temperature	-30 °C...70 °C
Ambient temperature	-30 °C...+50 °C
Temperature range, assembly, min. / max.	10...40 °C
Connection system	PTDS 4
Input voltage, min.	320 V AC
Input voltage, max.	575 V AC
Input fuse	Yes
AC input voltage range	320...575 V AC
Overload current protection	< 40 A @ 400 V AC
Frequency range AC	47...63 Hz
Rated input voltage	400 V AC (3~, PE)
AC current consumption	< 0.75 A @ 400 V AC
Output voltage	24.5 V DC ± 2 %
Powerboost @ 24 V DC	15 A @ 5 sec, ED = 10 %, 3-phase
Output current	10 A
Output power	240 W
Overload protection	Yes
Residual ripple, breaking spikes	< 150 mV <sub>SS</sub> @ 24 V DC, I <sub>N</sub>
Mains failure bridge-over time	> 20 ms @ 400 V AC
Parallel connection option	No
Colour	Black
Protection degree	IP65
Insulating material	Polycarbonate
UL 94 flammability rating	5VA
For use with electronic equipment	Acc. to EN50178 / VDE0160
Electrical machine equipment	Acc. to EN60204
Safety extra-low voltage	SELV in accordance with EN60950, PELV nach EN60204
Status indication	Green LED
Stripping length	14 mm
Clamping range, rated connection, min./max.	2.5 / 6 mm <sup>2</sup>
Clamping range, further connection, min./max.	0.75 / 6 mm <sup>2</sup>
Blade size	0.6 x 3.5 mm
<b>Note</b>	

Ordering data

Type	Qty.	Order No.
FP Box SNT10A 2xPT6	1	8000025427
<b>Note</b>		

Accessories

Type	Qty.	Order No.
Blanking seal	10	4323240000
Round-cable seal, slit 1 x 7.5 - 9mm	10	4329610000
Round-cable seal, slit 1 x 9 - 11mm	10	4323210000
Round-cable seal, slit 1 x 11 - 13mm	10	4323230000
Round-cable seal, slit 1 x 13 - 15mm	10	4323220000
Round-cable seal, slit 1 x 15 - 17mm	10	4324010000
<b>Note</b>		

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers





Device  
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

### 3EM-230V-AC

- 1- or 3-phase power measurement for 1 A or 5 A (with or without transformer)
- Measurement in the phase conductor
- 16 bit resolution
- Power-/ reactive power measurement
- Energy meter Active / reactive
- Power factor
- Frequency measurement 45 ... 65 Hz
- Analysis of 31 harmonics

### Technical data

<b>System data</b>	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
<b>Supply</b>	
Supply voltage	24 V DC +20%/-15%, via the system bus
Current consumption $I_m$ (power segment of the field bus coupler), typ.	8 mA
Current consumption $I_m$ (the respective power segment)	40 mA
<b>Analogue inputs</b>	
Number	3 neutral conductor connections, 3 phase conductor connections, 3 current measurement connections for 5 A, 3 current measurement connections for 1 A
Rated voltage	300 V <sub>eff</sub> (L-N)
Resolution	16 Bit per channel (intern 24 Bit)
Sampling rate of current measurement	3,300 samples/s
Frequency of the supply system	45...65 Hz
Analysis of harmonic	31 (Blackmann-Harris Window)
Power rating	0...1 A / 0...5 A AC
Insulation	1.5 kV <sub>eff</sub> (input / system)
Nominal peak voltage	4 kV
Category for voltage measurements	CAT II (IEC 61010 Part 1)
Measurement method	High Resolution Delta Sigma (current measurement in outer conductor)
Measurement accuracy	0.5% in relation to final value (U / I), 1% for the calculated values
Connectable converter ratios	1 ... 1000
Input impedance voltage	2.4 MΩ per channel
Measurement resistance (shunt)	4 mΩ (at 5 A), 20 mΩ (at 1 A)
<b>General data</b>	
Weight	87 g
Dimensions (H x W x D)	120 mm / 11.5 mm / 76 mm
<b>Note</b>	

### Ordering data

<b>Module variants</b>	Power measurement module, 3 channels
<b>Note</b>	

### Accessories

	Coding elements	KOSM BHZ5.00	100	1483050000
	Termination kit	UR20-EBK-ACC	5	1346610000
	Swivel marker	UR20-SM-ACC	20	1339920000
	Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
	Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
	Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
	Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
	Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
	Thermotransfer version (Material: Polyester)	THM UR20 WS	1	1429420000
	Paper version for Laserprinter	ESD UR20 DIN A4 WS	10	1429430000
<b>Replacement parts</b>				
	Electronic module	UR20-EM-2007420000-SP	1	1562270000
	Basic module	UR20-BM-SP	5	1350930000
	Plug-in connector unit	UR20-PK-2007420000-SP	5	2068630000
<b>Note</b>				

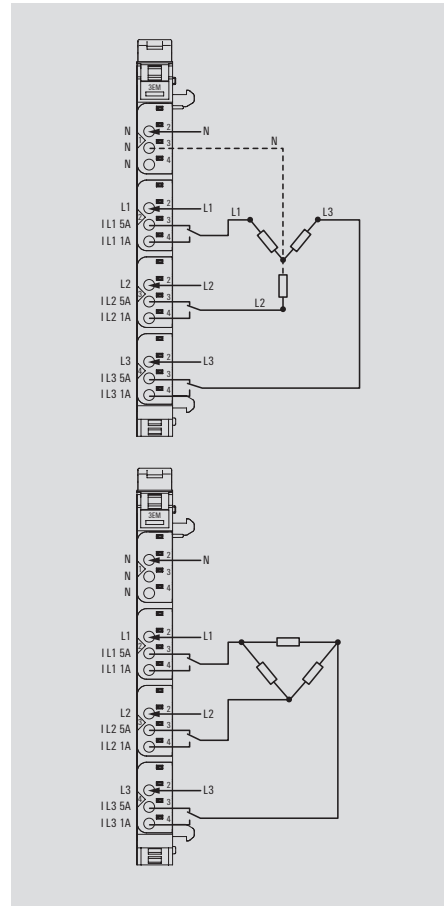
### UR20-3EM-230V-AC



<b>System data</b>		
Interface	u-remote system bus	
Transmission speed of system bus, max.	48 Mbit	
Galvanic isolation	500 V DC between the current paths	
<b>Supply</b>		
Supply voltage	24 V DC +20%/-15%, via the system bus	
Current consumption $I_m$ (power segment of the field bus coupler), typ.	8 mA	
Current consumption $I_m$ (the respective power segment)	40 mA	
<b>Analogue inputs</b>		
Number	3 neutral conductor connections, 3 phase conductor connections, 3 current measurement connections for 5 A, 3 current measurement connections for 1 A	
Rated voltage	300 V <sub>eff</sub> (L-N)	
Resolution	16 Bit per channel (intern 24 Bit)	
Sampling rate of current measurement	3,300 samples/s	
Frequency of the supply system	45...65 Hz	
Analysis of harmonic	31 (Blackmann-Harris Window)	
Power rating	0...1 A / 0...5 A AC	
Insulation	1.5 kV <sub>eff</sub> (input / system)	
Nominal peak voltage	4 kV	
Category for voltage measurements	CAT II (IEC 61010 Part 1)	
Measurement method	High Resolution Delta Sigma (current measurement in outer conductor)	
Measurement accuracy	0.5% in relation to final value (U / I), 1% for the calculated values	
Connectable converter ratios	1 ... 1000	
Input impedance voltage	2.4 MΩ per channel	
Measurement resistance (shunt)	4 mΩ (at 5 A), 20 mΩ (at 1 A)	
<b>General data</b>		
Weight	87 g	
Dimensions (H x W x D)	120 mm / 11.5 mm / 76 mm	
<b>Note</b>		

Type	Qty.	Order No.
UR20-3EM-230V-AC	1	2007420000

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESD UR20 DIN A4 WS	10	1429430000
UR20-EM-2007420000-SP	1	1562270000
UR20-BM-SP	5	1350930000
UR20-PK-2007420000-SP	5	2068630000



Product standard	IEC 61131-2, IEC61010-2-201
EMC	EN 61000
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-2007420000



Let's connect.



Device  
Manufacturers



Transportation



Energy



Process



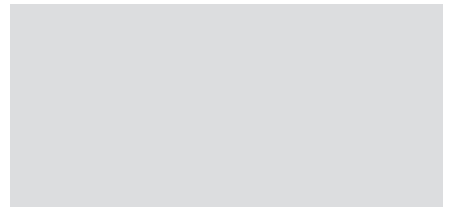
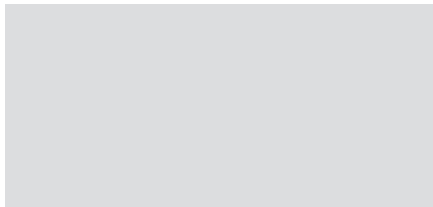
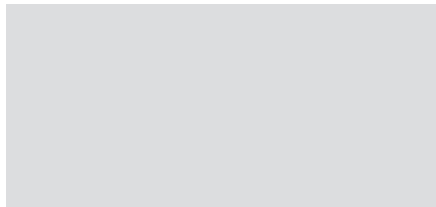
Machinery

Technical data

Energy meters for DIN rail mounting

Energy Meter D370

Energy Meter D370-UL



Technical data

Supply voltage	80 - 240 V AC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.5 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-25., odd
Harmonics, per order / voltage	1-25., odd
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Communication</b>	
Interface	RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals)
<b>Protocol</b>	
Protocol	Modbus RTU
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	80...240 Vrms
Measurement range, voltage L-L, AC (without converter)	80...415 Vrms
<b>Measuring-current input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Supply voltage	100...127 V
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.5 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-25., odd
Harmonics, per order / voltage	1-25., odd
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Communication</b>	
Interface	RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals)
<b>Protocol</b>	
Protocol	Modbus RTU
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	25 ... 127 Vrms
Measurement range, voltage L-L, AC (without converter)	44 ... 240 V rms
<b>Measuring-current input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Supply voltage	100...127 V
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.5 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-25., odd
Harmonics, per order / voltage	1-25., odd
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Communication</b>	
Interface	RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals)
<b>Protocol</b>	
Protocol	Modbus RTU
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	25 ... 127 Vrms
Measurement range, voltage L-L, AC (without converter)	44 ... 240 V rms
<b>Measuring-current input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Ordering data

Type	Qty.	Order No.
ENERGY METER D370	1	2425470000

Type	Qty.	Order No.
ENERGY METER D370	1	2425470000

Type	Qty.	Order No.
ENERGY METER D370-UL	1	2425480000

Accessories

Type	Qty.	Order No.
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Type	Qty.	Order No.
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Type	Qty.	Order No.
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<b>Note</b>
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<b>Note</b>
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<b>Note</b>
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Technical data

Machinery

Process

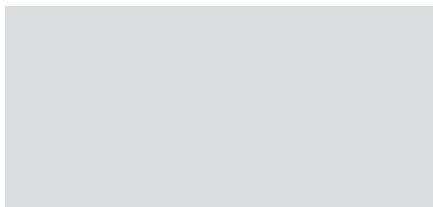
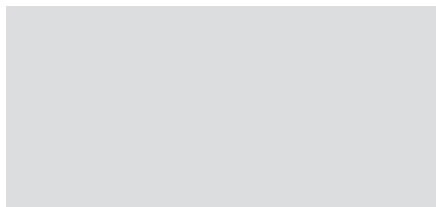
Energy

Transportation

Device Manufacturers

Energy meters for DIN rail mounting

Energy Meter D650



Technical data

Supply voltage	95 - 240 V AC, 135 - 340 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	4 MB
<b>Display and inputs/outputs</b>	
Display	LCD 3-digit
Digital inputs	2
Digital outputs	2
Temperature measurement input (PT100, PT1000, KTY83, KTY84)	Yes
<b>Communication</b>	
Interface	RS232: 9.6 - 115.2 kbps, RS485: 9.6 - 921.6 kbps
<b>Protocol</b>	
Protocol	Modbus RTU
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...600 Vrms
Measurement range, voltage L-L, AC (without converter)	18...1000 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Supply voltage	95 - 240 V AC, 135 - 340 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	4 MB
<b>Display and inputs/outputs</b>	
Display	LCD 3-digit
Digital inputs	2
Digital outputs	2
Temperature measurement input (PT100, PT1000, KTY83, KTY84)	Yes
<b>Communication</b>	
Interface	RS232: 9.6 - 115.2 kbps, RS485: 9.6 - 921.6 kbps
<b>Protocol</b>	
Protocol	Modbus RTU
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...600 Vrms
Measurement range, voltage L-L, AC (without converter)	18...1000 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Ordering data

<b>Note</b>
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Type	Qty.	Order No.
ENERGY METER D650	1	2425490000

Accessories

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
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<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
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<b>Note</b>
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<b>Note</b>
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Technical data

Machinery

Process

Energy

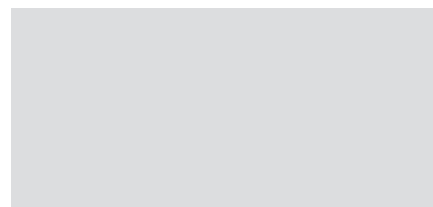
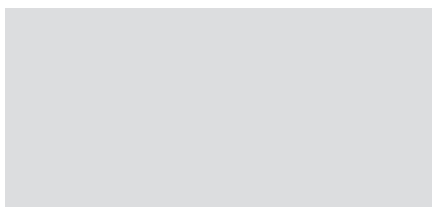
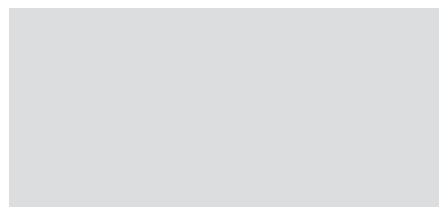
Transportation

Device Manufacturers

Energy meters for front panel mounting

Energy Meter 330

Energy Meter 350



Technical data

Supply voltage	
<b>General data</b>	
Measuring accuracy for voltage	
Measuring accuracy for current	
Measurement accuracy for active energy (kWh, .../5 A)	
<b>Display and inputs/outputs</b>	
Display	
Digital outputs	
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	
Measurement range, voltage L-L, AC (without converter)	
<b>Measuring-voltage input</b>	
Rated current	
<b>Note</b>	

supplied from voltage measurement inputs	
1 %	
1 %	
Class 2	
LCD with backlit display, 2 keys	
50...255 V AC	
86 ... 442 Vrms	
1 / 5 A	

supplied from voltage measurement inputs	
1 %	
1 %	
Class 2	
LCD with backlit display, 2 keys	
2 as switch or pulse output	
50...255 V AC	
86 ... 476 Vrms	
1 / 5 A	

Ordering data

<b>Note</b>
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Type	Qty.	Order No.
ENERGY METER 330	1	2425410000

Type	Qty.	Order No.
ENERGY METER 350	1	2425420000

Accessories

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Type	Qty.	Order No.
ENERGY METER BRACKET L2	1	2433050000
ENERGY METER BRACKET S1	1	2433080000

Type	Qty.	Order No.
ENERGY METER BRACKET L2	1	2433050000
ENERGY METER BRACKET S1	1	2433080000

<b>Note</b>
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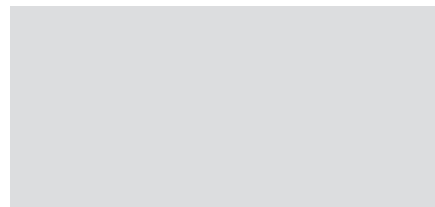
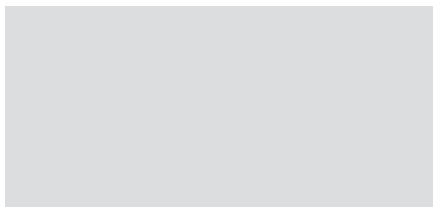
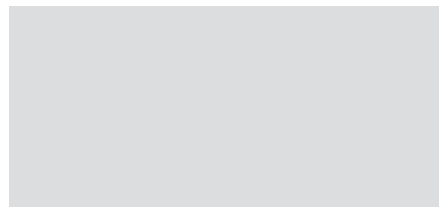
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Energy meters for front panel mounting

Energy Meter 525

Energy Meter 610



Technical data

Supply voltage	20 - 250 V AC, 20 - 300 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	256 MB
<b>Display and inputs/outputs</b>	
Display	LCD with backlit display, 2 keys
Digital inputs	4
Digital outputs	6
<b>Communication</b>	
Interface	Ethernet 10/100 Base T
<b>Protocol</b>	
Protocol	Modbus/TCP
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...300 Vrms
Measurement range, voltage L-L, AC (without converter)	18...520 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Supply voltage	20 - 250 V AC, 20 - 300 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	256 MB
<b>Display and inputs/outputs</b>	
Display	LCD with backlit display, 2 keys
Digital inputs	4
Digital outputs	6
<b>Communication</b>	
Interface	Ethernet 10/100 Base T
<b>Protocol</b>	
Protocol	Modbus/TCP
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...300 Vrms
Measurement range, voltage L-L, AC (without converter)	18...520 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Supply voltage	20 - 250 V AC, 20 - 300 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	256 MB
<b>Display and inputs/outputs</b>	
Display	LCD with backlit display, 2 keys
Digital inputs	4
Digital outputs	6
<b>Communication</b>	
Interface	USB, RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals)
<b>Protocol</b>	
Protocol	Modbus RTU
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...300 Vrms
Measurement range, voltage L-L, AC (without converter)	18...520 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Ordering data

<b>Note</b>
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Type	Qty.	Order No.
ENERGY METER 525	1	2425430000

Type	Qty.	Order No.
ENERGY METER 610	1	2425440000

Accessories

<b>Note</b>
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Type	Qty.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER CLIPS	1	2433090000

Type	Qty.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER FIXING SET	1	2433030000

<b>Note</b>
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<b>Note</b>
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<b>Note</b>
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Technical data

Machinery

Process

Energy

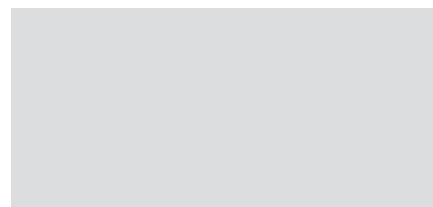
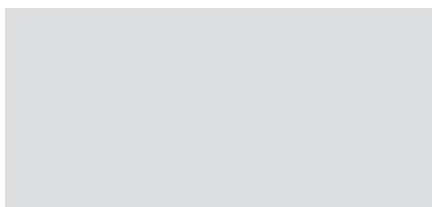
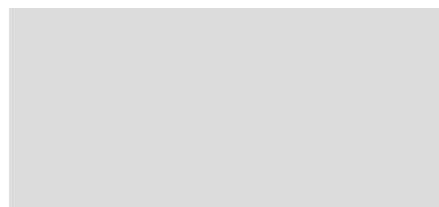
Transportation

Device Manufacturers

Energy meters for front panel mounting

Energy Meter 610-PB

Energy Meter 750



Technical data

Supply voltage	20 - 250 V AC, 20 - 300 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	256 MB
<b>Display and inputs/outputs</b>	
Display	LCD with backlit display, 2 keys
Digital inputs	4
Digital outputs	6
Digital inputs and outputs (optionally)	
Analogue inputs (RCM, temperature, analogue)	
<b>Communication</b>	
Interface	RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals)
<b>Protocol</b>	
Protocol	Profibus DP V0, Modbus RTU
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...300 Vrms
Measurement range, voltage L-L, AC (without converter)	18...520 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Supply voltage	20 - 250 V AC, 20 - 300 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	256 MB
<b>Display and inputs/outputs</b>	
Display	LCD with backlit display, 2 keys
Digital inputs	4
Digital outputs	6
Digital inputs and outputs (optionally)	
Analogue inputs (RCM, temperature, analogue)	
<b>Communication</b>	
Interface	RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals)
<b>Protocol</b>	
Protocol	Profibus DP V0, Modbus RTU
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...300 Vrms
Measurement range, voltage L-L, AC (without converter)	18...520 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Supply voltage	20 - 250 V AC, 20 - 300 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	256 MB
<b>Display and inputs/outputs</b>	
Display	LCD with backlit display, 2 keys
Digital inputs	4
Digital outputs	6
Digital inputs and outputs (optionally)	2 as switch or pulse output
Analogue inputs (RCM, temperature, analogue)	3
<b>Communication</b>	
Interface	RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals), Ethernet 10/100 Base-TX (RJ-45 socket)
<b>Protocol</b>	
Protocol	TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), FTP, SNMP
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...300 Vrms
Measurement range, voltage L-L, AC (without converter)	18...520 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Ordering data

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
ENERGY METER 610-PB	1	2425450000
<b>Note</b>		

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
ENERGY METER 610-PB	1	2425450000
<b>Note</b>		

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
ENERGY METER 750	1	2425460000
<b>Note</b>		

Accessories

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER FIXING SET	1	2433030000
<b>Note</b>		

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER FIXING SET	1	2433030000
<b>Note</b>		

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER FIXING SET	1	2433030000
<b>Note</b>		

<b>Note</b>	
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<b>Note</b>	
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<b>Note</b>	
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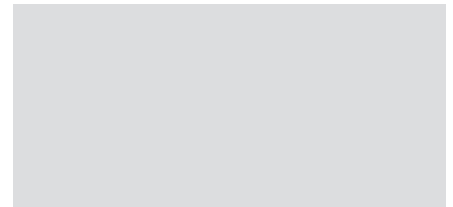
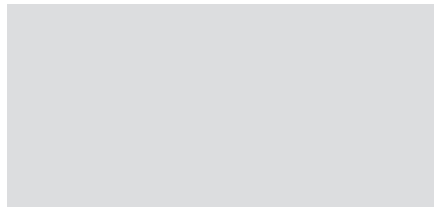
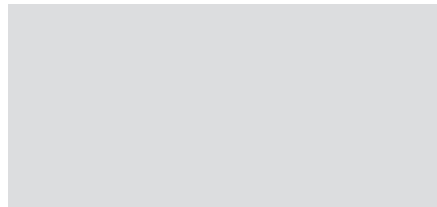


Energy analysis instruments

Energy Analyser D550



Energy Analyser 550



Technical data

Supply voltage	95 - 240 V AC, 135 - 340 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	128 MB
<b>Display and inputs/outputs</b>	
Display	LCD with backlit display, 2 keys
Digital inputs	2
Digital outputs	2 as switch or pulse output
Temperature measurement input (PT100, PT1000, KTY83, KTY84)	1
<b>Communication</b>	
Interface	RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals), Ethernet 10/100 Base-TX (RJ-45 socket), RS232: 9.6 - 115.2 kbps
<b>Protocol</b>	
Protocol	TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), TFTP
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...600 Vrms
Measurement range, voltage L-L, AC (without converter)	18...1000 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Ordering data

Type	Qty.	Order No.
ENERGY ANALYSER D550	1	2425510000

<b>Note</b>
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Accessories

Type	Qty.	Order No.
ENERGY METER BRACKET B1	1	2433040000

<b>Note</b>
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Supply voltage	95 - 240 V AC, 135 - 340 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.1 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.2S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-63.
Harmonics, per order / voltage	1-63.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	256 MB
<b>Display and inputs/outputs</b>	
Display	LCD 320 x 240, 256 colours, 6 keys
Digital inputs	2
Digital outputs	2 as switch or pulse output
Temperature measurement input (PT100, PT1000, KTY83, KTY84)	1
<b>Communication</b>	
Interface	RS485: 9.6 - 921.6 kbps, Profibus DP: up to 12 Mbps (DSUB-9-plug), Ethernet 10/100 Base-TX (RJ-45 socket)
<b>Protocol</b>	
Protocol	TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Profibus DP V0, SMTP, TFTP, FTP, SNMP
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...600 Vrms
Measurement range, voltage L-L, AC (without converter)	18...1000 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Type	Qty.	Order No.
ENERGY ANALYSER 550	1	2425500000

<b>Note</b>
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Type	Qty.	Order No.
ENERGY METER BRACKET B1	1	2433040000

<b>Note</b>
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Supply voltage	95 - 240 V AC, 80 - 300 V DC
<b>General data</b>	
Measuring accuracy for voltage	0.1 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.2S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-63.
Harmonics, per order / voltage	1-63.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	256 MB
<b>Display and inputs/outputs</b>	
Display	LCD 320 x 240, 256 colours, 6 keys
Digital inputs	2
Digital outputs	2 as switch or pulse output
Temperature measurement input (PT100, PT1000, KTY83, KTY84)	1
<b>Communication</b>	
Interface	RS485: 9.6 - 921.6 kbps, Profibus DP: up to 12 Mbps (DSUB-9-plug), Ethernet 10/100 Base-TX (RJ-45 socket)
<b>Protocol</b>	
Protocol	TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Profibus DP V0, SMTP, TFTP, FTP, SNMP
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...600 Vrms
Measurement range, voltage L-L, AC (without converter)	18...1000 Vrms
<b>Measuring-voltage input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Type	Qty.	Order No.
ENERGY ANALYSER 550	1	2425500000

<b>Note</b>
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Type	Qty.	Order No.
ENERGY METER BRACKET B1	1	2433040000

<b>Note</b>
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Technical data

Machinery

Process

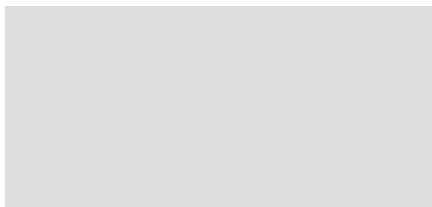
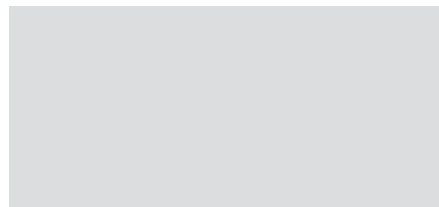
Energy

Transportation

Device Manufacturers

Energy loggers

Energy Logger D550



Technical data

Supply voltage	20 - 250 V AC, 20 - 300 V DC
<b>Measurement data recording</b>	
Memory (Flash)	32 MB
<b>Display and inputs/outputs</b>	
Digital inputs	15
Digital outputs	3 as switch or pulse output
Temperature measurement input (PT100, PT1000, KTY83, KTY84)	Yes (max. load 4 kOhm)
<b>Communication</b>	
Interface	Ethernet 10/100 Base-TX (RJ-45 socket), RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals)
<b>Protocol</b>	
Protocol	Modbus RTU, Modbus/TCP, TCP/IP, NTP, DHCP
<b>Note</b>	

Supply voltage	20 - 250 V AC, 20 - 300 V DC
<b>Measurement data recording</b>	
Memory (Flash)	32 MB
<b>Display and inputs/outputs</b>	
Digital inputs	15
Digital outputs	3 as switch or pulse output
Temperature measurement input (PT100, PT1000, KTY83, KTY84)	Yes (max. load 4 kOhm)
<b>Communication</b>	
Interface	Ethernet 10/100 Base-TX (RJ-45 socket), RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals)
<b>Protocol</b>	
Protocol	Modbus RTU, Modbus/TCP, TCP/IP, NTP, DHCP
<b>Note</b>	

Ordering data

<b>Note</b>	
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Type	Qty.	Order No.
ENERGY LOGGER D550	1	2425520000

Accessories

<b>Note</b>	
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Type	Qty.	Order No.
ENERGY LOGGER SO MODULE	1	2446170000

<b>Note</b>	
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<b>Note</b>	
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Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Technical data

Machinery



Process



Energy



Transportation



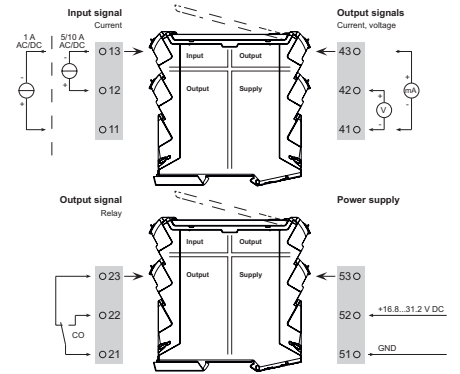
Device  
Manufacturers



**Current-measuring transducer**

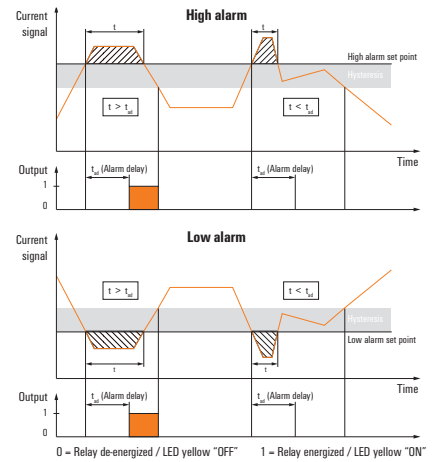
- Measuring and monitoring AC/DC currents
- Input/output electrically isolated
- Input and output ranges are adjustable
- Measurement range extension via external current transformer
- Relay output for limit value alarm with switching threshold, delay, hysteresis

**ACT20P-CML-10-A0-RC-S**



**Technical data**

<b>Input</b>	
Input measurement range	0...1/5/10 A AC (RMS) or DC
Input signal	Power cable can be connected to the terminals
Input frequency	AC: 15...400 Hz
<b>Output (analogue)</b>	
Output voltage	adjustable, 0...10 V, 2...10 V, 0...5 V, 1...5 V, -5...+5 V, -10...+10 V
Output current	adjustable, 0...20 mA, 4...20 mA, -20...+20 mA
Load resistance voltage	≥ 10 kΩ
Load resistance current	≤ 600 Ω
<b>Output (digital)</b>	
Type	Relay, 1 CO contact, Open or closed-circuit principle, with alarm delay time (configurable) 0 s / 2 s / 5 s / 10 s
Rated switching current	2 A
Max. switching voltage, AC	250 V
<b>General data</b>	
Galvanic isolation	4-way isolator, between input / output / supply / relay
Configuration	DIP switch and potentiometer, for thresholds (overcurrent / undercurrent), delay and hysteresis
Step response time	≤ 300 ms (RMS), ≤ 60 ms (AA)
Accuracy	≤ ±0.3 % @ 1 A / 5 A, ≤ ±0.6 % @ 10 A
Temperature coefficient	≤ ±100 ppm/K @ -25...+55 °C, ≤ ±200 ppm/K @ -55...+70 °C
Supply voltage	24 V DC ± 30 %
<b>Insulation coordination</b>	
Rated voltage	300 V AC <sub>max</sub>
Standards	IEC 61010-1:2010, 3rd Edition, IEC 61010-2-201:2013, 1st Edition
Impulse withstand voltage	6 kV (1.2/50 μs)
Test voltage	4 kV
Pollution degree	2
Overvoltage category	III
EMC standards	IEC 61326-1, IEC 61010-2-201



**Dimensions**

Clamping range (nominal / min. / max.)	1.5 / 0.5 / 2.5
Depth / Width / Height	113.6 / 17.5 / 119.2
<b>Note</b>	

**Ordering data**

Type	Qty.	Order No.
ACT20P-CML-10-A0-RC-S	1	2044850000

**Note**

**Accessories**

**Note**



Device  
Manufacturers



Transportation



Energy



Process



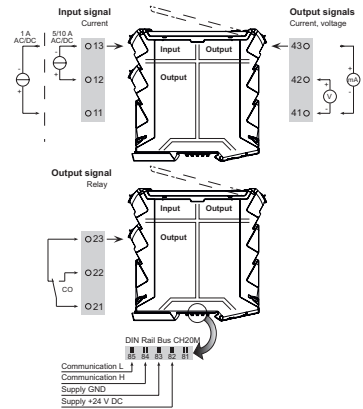
Machinery

Technical data

**Communicative current-measuring transducer**

- Measurement and monitoring of AC/DC currents
- Input/output electrically isolated
- Measurement range extension via passive current transformers
- A component of the ACT20C station
- Relay output for limit value alarm with switching threshold, delay, hysteresis

**ACT20C-CML-10-A0-RC-S**



**Technical data**

<b>Input</b>	
Input measurement range	configurable, 0...1/5/10 A AC (RMS) or DC
Input signal	Power cable can be connected to the terminals
Input frequency	AC: 15...400 Hz
<b>Output (analogue)</b>	
Output voltage	adjustable, 0...10 V, 2...10 V, 0...5 V, 1...5 V, -5...+5 V, -10...+10 V
Output current	adjustable, 0...20 mA, 4...20 mA, -20...+20 mA
Load resistance current	≤ 600 Ω
Load resistance voltage	≥ 10 kΩ
<b>Output (digital)</b>	
Type	Relay, 1 CO contact, Open or closed-circuit principle, with alarm delay (configurable) 0...180 s
Rated switching current	2 A
Max. switching voltage, AC	250 V
<b>General data</b>	
Configuration	for thresholds (overcurrent / undercurrent), delay and hysteresis, via gateway (ACT20C-GTW-100-MTCP-S), With FDT/DTM software
Step response time	≤ 300 ms (RMS), ≤ 60 ms (AA)
Accuracy	≤ ±0.3 % @ 1 A/5 A, ≤ ±0.6 % @ 10 A
Temperature coefficient	≤ ±100 ppm/K @ -25...+55 °C, ≤ ±200 ppm/K @ -55...+70 °C
Supply voltage	24 V DC ± 30 %
<b>Insulation coordination</b>	
Rated voltage	300 V AC <sub>rms</sub>
EMC standards	IEC 61326-1, IEC 61010-2-201
Galvanic isolation	4-way isolator, between input/output/supply/relay
Test voltage	4 kV
Impulse withstand voltage	6 kV (1.2/50 μs)
Pollution degree	2
Overtension category	III
<b>Dimensions</b>	
Clamping range (nominal / min. / max.)	1.5 / 0.5 / 2.5
Depth / Height / Width	113.6 / 117.2 / 17.5 mm
<b>Note</b>	

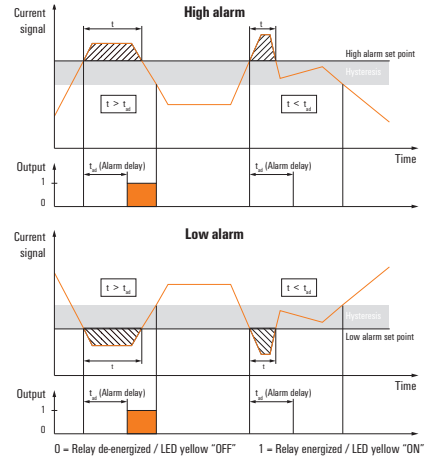
**Ordering data**

Type	Qty.	Order No.
ACT20C-CML-10-A0-RC-S	1	2044840000

Note

**Accessories**

Note



User address	DIP switch S1					
	1	2	3	4	5	6
2		■				
3	■	■				
4			■			
5	■					
6		■	■			
7	■	■	■			
8				■		
...						
16					■	
...						
32						■
33	■					■

■ = ON

Technical data

Machinery



Process



Energy



Transportation



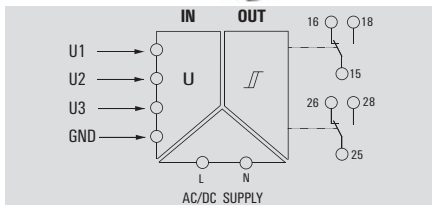
Device  
Manufacturers



**Voltage monitoring, 1-phase**

- Monitoring of single-phase systems up to 400 V AC/DC
- 3 input ranges can be selected
- 2 relays with CO contacts
- Holding function can be activated
- Rotary switch for setting limit values

**ACT20P-VMR-1PH-H**



**Technical data**

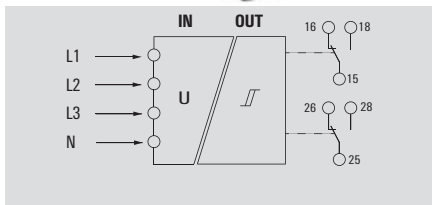
<b>Input</b>		
Number of inputs	1 x single-phase (L, N)	
Input voltage	Channel 1: (U1-E): 110V AC/DC, Channel 2: (U2-E): 240V AC/DC, Channel 3 1: (U3-E): 400V AC/DC	
Input measurement range	50...120% $U_{\text{rated voltage}}$	
Input frequency	40...60 Hz, DC	
Input resistance, voltage	1 M $\Omega$ ±5%	
<b>Output (digital)</b>		
Type	2 CO contacts, Relay polarity can be inverted	
Alarm function	Surge voltage, Undervoltage, Voltage window, Holding function can be activated, Alarm delay: 0...10 s	
Rated switching current	5 A	
Max. switching voltage, AC	250 V	
Max. switching voltage, DC	30 V	
<b>General data</b>		
Accuracy	3% $*U_{\text{rated voltage}}$	
Measurement calibration	max: 70...120% $*U_{\text{rated voltage}}$ , min: 50...100% $*U_{\text{rated voltage}}$	
Power consumption	2.5 W @ 24 V DC	
Step response time	< 220 ms (10...90 %)	
Temperature coefficient	350 ppm/K	
Supply voltage	24...240 VUC ±10%	
<b>Insulation coordination</b>		
Rated voltage	300 VAC (output 1 - output 2), 300 VAC (supply-output), 500 VAC (supply-input; input-output)	
EMC standards	IEC 61326-1	
Galvanic isolation	3-way isolator, Input to supply / Alarm 1 / Alarm 2	
Insulation voltage	2.5 kV (input / output), 2 kV input / output/ power supply	
Impulse withstand voltage	Supply/output: 4 kV; input/output, supply/input: 6 kV	
Pollution degree	2	
Overtoltage category	III	
Standards	EN 50178	
<b>Dimensions</b>		
Clamping range (nominal / min. / max.)	1.5 / 0.5 / 2.5	
Depth / Width / Height	114.3 / 22.5 / 117	
<b>Note</b>		
<b>Ordering data</b>		
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
ACT20P-VMR-1PH-H	1	7760054164
<b>Note</b>		
<b>Accessories</b>		
<b>Note</b>		



**Voltage monitoring, 3-phase**

- Voltage monitoring for 3-phase systems up to 500 V AC
- 3 input ranges can be selected
- 2 relays with CO contacts
- Holding function can be activated
- Rotary switch for setting limit values

**ACT20P-VMR-3PH-ILP-H**



**Technical data**

<b>Input</b>	
Number of inputs	1 x three-phase (R, S, T, N)
Input frequency	40...60 Hz
Input measurement range	200...480 VAC
Input voltage	180...500 VAC
Input resistance, voltage	≥1,8MΩ
<b>Output (digital)</b>	
Type	2 CO contacts
Alarm function	Top and bottom limit values, window range, Holding function can be activated
Rated switching current	5 A
Max. switching voltage, AC	250 V
Max. switching voltage, DC	30 V
<b>General data</b>	
Configuration	DIP switch and potentiometer
Accuracy	3% *U <sub>rated voltage</sub>
Measurement calibration	max: 70...120% *U <sub>rated voltage</sub> , min: 50...100% *U <sub>rated voltage</sub>
Unbalanced	Hysteresis: 5%, Phase imbalance in range of adjustment: 5...25%, OFF
Repeat accuracy	2% *U <sub>rated voltage</sub>
Step response time	≤ 100 ms
Temperature coefficient	350 ppm/K
Supply voltage	supplied from voltage measurement inputs
<b>Insulation coordination</b>	
EMC standards	EN 61326-1
Galvanic isolation	2-way isolator, between input/output
Rated voltage	600 VAC (input - output), 300 VAC (output 1 - output 2)
Insulation voltage	2.5 kV (input / output)
Impulse withstand voltage	6 kV (input - output), 4 kV (output 1 - output 2)
Pollution degree	2
Overvoltage category	III
Standards	EN 50178
<b>Dimensions</b>	
Clamping range (nominal / min. / max.)	1.5 / 0.5 / 2.5
Depth / Width / Height	114.3 / 22.5 / 117
<b>Note</b>	

<b>Screw connection</b>		
Type	Qty.	Order No.
ACT20P-VMR-3PH-ILP-H	1	7760054165

**Ordering data**

Note

**Accessories**

Note

Technical data

Machinery

Process

Energy

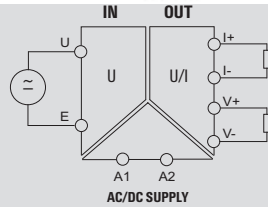
Transportation

Device Manufacturers

**Voltage measurement, 1-phase**

- Voltage monitoring for 3-phase systems up to 500 V AC
- 3 input ranges can be selected
- 2 relays with CO contacts
- Holding function can be activated
- Rotary switch for setting limit values

**ACT20P-VM-A0-S**



**Technical data**

**Input**

Input frequency  
Input voltage

40...60 Hz, DC  
 $U_{N1}$ : 0...300 V AC,  $U_{N2}$ : 0...125 V AC,  $U_{N3}$ : 0...60 VDC,  $U_{N3}$ : 0...150 VDC,  
 $U_{N3}$ : 0...300 V DC,  $U_{N4}$ : 0...30 V DC,  $U_{N4}$ : 0...300 VDC,  $U_{N5}$ : 0...440 VDC,  
 $U_{N7}$ : 0...60 VAC,  $U_{N8}$ : 0...144 VAC,  $U_{N9}$ : 0...300 VAC

**Output (analogue)**

Output voltage

0...10 V, Alarm output: 11V (measurement range exceeded / incorrect input type)

Output current

0...20 mA, Alarm output: 22 mA (measurement range exceeded / incorrect input type)

Load resistance voltage  
Load resistance current

$\geq 10$  k $\Omega$   
 $\leq 500$   $\Omega$

**General data**

Accuracy  
Power consumption  
Step response time  
Temperature coefficient  
Supply voltage

0.5 % FSR  
 2.5 W @ 24 V DC  
 < 300 ms  
 $\leq 200$  ppm/K  
 24...240 VUC ( $\pm 10\%$ )

**Insulation coordination**

EMC standards  
Galvanic isolation  
Rated voltage  
Insulation voltage input or output/supply  
Impulse withstand voltage

IEC 61000-6 /2, IEC 61000-6-4, IEC 61326-1  
 3-way isolator, between input / output / supply  
 300 VAC (supply-output), 500 VAC (supply-input; input-output)  
 2.5 kV  
 Supply/output: 4 kV; input/output, supply/output: 6 kV

Pollution degree  
Overtension category  
Standards

2  
 III  
 EN 50178

**Dimensions**

Clamping range (nominal / min. / max.)  
Depth / Width / Height

**Screw connection**

1.5 / 0.5 / 2.5  
 114.3 / 22.5 / 117

**Note**

**Ordering data**

Type	Qty.	Order No.
ACT20P-VM-A0-S	1	7760054306

**Note**

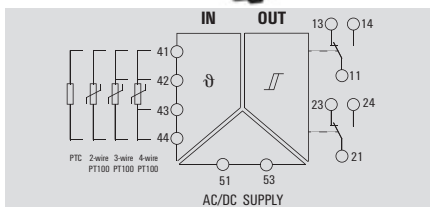
**Accessories**

**Note**

**Temperature monitoring**

- Temperature monitoring of PT100 sensors or PTC
- Temperature range can be selected
- 2 relays with CO contacts
- Limit value can be set with software configuration

**ACT20P-TMR-RTI-S**



**Technical data**

**Input**

Sensor  
Temperature input range

**Output (digital)**

Type  
Alarm function

Rated switching current  
Max. switching voltage, AC  
Max. switching voltage, DC

**General data**

Configuration  
Accuracy  
Power consumption  
Step response time  
Temperature coefficient  
Supply voltage

**Insulation coordination**

EMC standards  
Galvanic isolation  
Insulation voltage  
Impulse withstand voltage  
Pollution degree  
Overvoltage category  
Rated voltage  
Standards

**Input**

PT100 / 2-/3-/4-wire, PTC: 0..4 kΩ  
Configurable, PT100: -200°C..850°C

**Output (digital)**

2 x 1 CO contact (hard gold-plated)  
Alarm range: -200..850 °C, Top and bottom limit values, window range, Hysteresis: 2 °C (adjustable), Alarm delay: 0..10 s

5 A  
250 V  
30 V

**General data**

Using free Windows software  
0.2% FSR, ≤ 2 °C (PT100), ≤ 8 Ω (PTC)  
≤ 100 mA @ 24 VDC  
≤ 500 ms  
≤ 100 ppm/K  
20..264 VUC

**Insulation coordination**

IEC 61326-1  
3-way isolator, between input / output / supply  
2 kV inputs / outputs / power supply  
4 kV (1.2/50 μs)  
2  
III  
300 V  
IEC 61010-1

**Dimensions**

Clamping range (nominal / min. / max.)  
Depth / Width / Height

**Note**

**Screw connection**

1.5 / 0.5 / 2.5  
114.3 / 22.5 / 117

**Ordering data**

Type	Qty.	Order No.
ACT20P-TMR-RTI-S	1	7760054305

**Note**

**Accessories**

**Note**

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

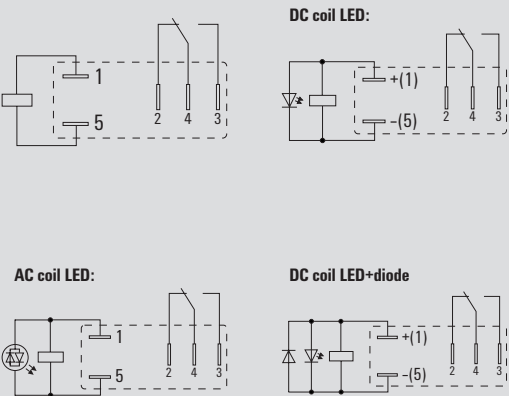
**DRI relay**

**1 CO contact, AC/DC coil**

- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue) and mechanical switch position indication (for version with test button)
- Optional: Bright status LED (AC coil: red / DC coil: green)
- Optional: free-wheeling diode



**Circuit diagram**



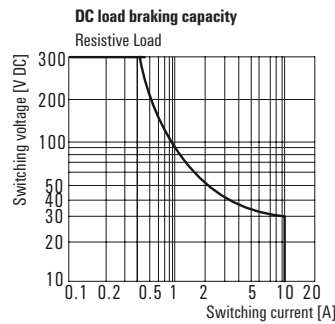
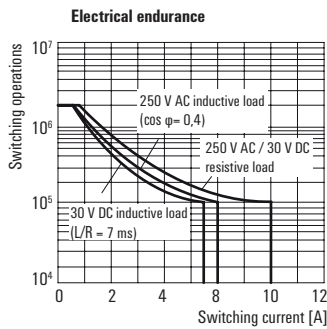
**Technical data**

<b>Output</b>	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi
Mechanical service life	10 x 10 <sup>6</sup> switching cycles
Max. switching frequency at rated load	0.1 Hz
<b>Rated data</b>	
Ambient temperature (operational)	-40 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE; cURus
<b>Insulation coordination (EN 50178)</b>	
Rated voltage	300 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV <sub>eff</sub> / 1min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2

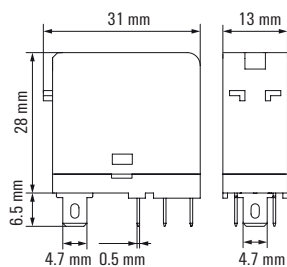
<b>Dimensions</b>	<b>Plug-in connection</b>
Depth x width x height	see dimensioned drawing

**Note**

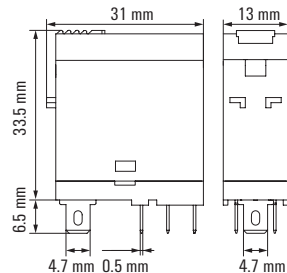
**Applications**



**Dimensioned drawing without test button**



**Dimensioned drawing with test button**



**DRI relay**  
**1 CO contact, AC/DC coil**

Type code	DRI					
Type	DRI					
Type of construction	314 1 CO contact 424 2 CO contacts					
Coil voltage	012 12 V DC 024 24 V DC 048 48 V DC 110 110 V DC	524 24 V AC 615 115 V AC 730 230 V AC				
LED	L (Red for AC coil; green for DC coil)					
Test lever including mechanical status indicator	T (Red lever for AC coil; blue lever for DC coil)					
Free wheeling diode	D (DC coil only)					

**Ordering data**

	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
<b>Input</b>				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating	530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
<b>Output</b>				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
Standard	Type DRI314012 Order No. <b>7760056296</b>	Type DRI314024 Order No. <b>7760056297</b>	Type DRI314048 Order No. <b>7760056298</b>	Type DRI314110 Order No. <b>7760056299</b>
with LED	Type DRI314012L Order No. <b>7760056303</b>	Type DRI314024L Order No. <b>7760056304</b>	Type DRI314048L Order No. <b>7760056305</b>	Type DRI314110L Order No. <b>7760056306</b>
with LED + freewheel diode	Type DRI314012LD Order No. <b>7760056310</b>	Type DRI314024LD Order No. <b>7760056311</b>	Type DRI314048LD Order No. <b>7760056312</b>	Type DRI314110LD Order No. <b>7760056313</b>
with test button + LED + Free-wheel diode	Type DRI314012LTD Order No. <b>7760056314</b>	Type DRI314024LTD Order No. <b>7760056315</b>	Type DRI314048LTD Order No. <b>7760056316</b>	Type DRI314110LTD Order No. <b>7760056317</b>

<b>Note</b>				
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**Ordering data**

	24 V AC 1CO	115 V AC 1CO	230 V AC 1 CO
<b>Input</b>			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	50 mA /	9.3 mA /	4,9 mA /
Power rating	1.2 VA	1.1 VA	1.1 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
<b>Output</b>			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data	24 V AC 1CO	115 V AC 1CO	230 V AC 1 CO
Standard	Type DRI314524 Order No. <b>7760056300</b>	Type DRI314615 Order No. <b>7760056301</b>	Type DRI314730 Order No. <b>7760056302</b>
with LED	Type DRI314524L Order No. <b>7760056307</b>	Type DRI314615L Order No. <b>7760056308</b>	Type DRI314730L Order No. <b>7760056309</b>
with test button + LED	Type DRI314524LT Order No. <b>7760056318</b>	Type DRI314615LT Order No. <b>7760056319</b>	Type DRI314730LT Order No. <b>7760056320</b>

<b>Note</b>			
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Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



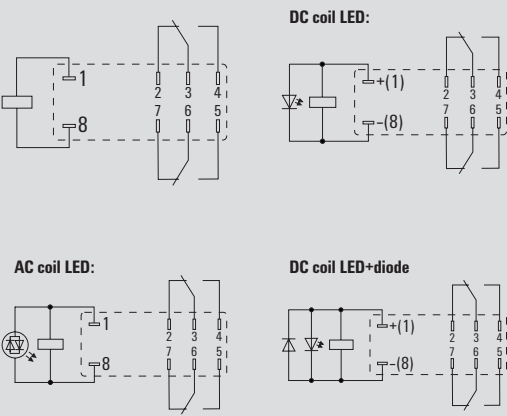
**DRI relay**

**2 CO contacts, AC/DC coil**

- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue) and mechanical switch position indication (for version with test button)
- Optional: Bright status LED (AC coil: red / DC coil: green)
- Optional: free-wheeling diode



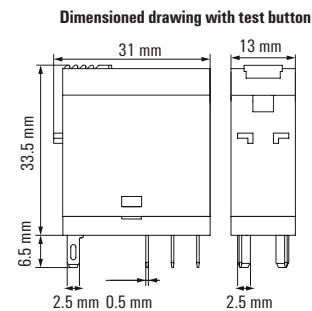
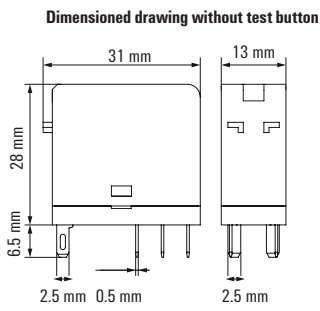
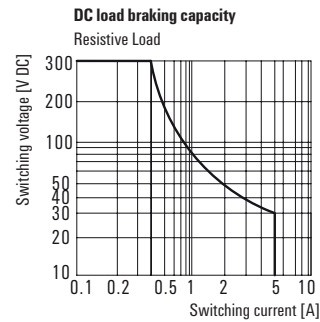
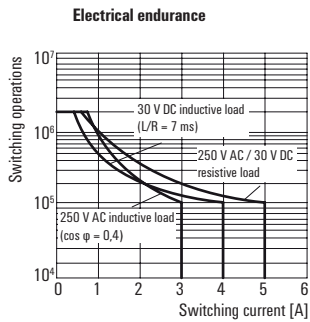
**Circuit diagram**



**Technical data**

Output	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	150 W @ 24 V / 1250 VA
Contact material	AgNi
Mechanical service life	10 x 10 <sup>6</sup> switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE; cURus
Insulation coordination (EN 50178)	
Rated voltage	300 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV <sub>eff</sub> / 1 min
Dielectric strength of neighbouring contacts	1.5 kV <sub>eff</sub> / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Depth x width x height	see dimensioned drawing
Plug-in connection	
	see dimensioned drawing
Note	

**Applications**



**DRI relay**  
**2 CO contacts, AC/DC coil**

Type code	DRI								
Type	DRI								
Type of construction	314	1 CO contact							
	424	2 CO contacts							
Coil voltage	012	12 V DC	524	24 V AC					
	024	24 V DC	615	115 V AC					
	048	48 V DC	730	230 V AC					
	110	110 V DC							
LED	L (Red for AC coil; green for DC coil)								
Test lever including mechanical status indicator	T (Red lever for AC coil; blue lever for DC coil)								
Free wheeling diode	D (DC coil only)								

**Ordering data**

	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
<b>Input</b>				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating	530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
<b>Output</b>				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data		12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Standard	Type	DRI424012	DRI424024	DRI424048	DRI424110
	Order No.	<b>7760056321</b>	<b>7760056322</b>	<b>7760056323</b>	<b>7760056324</b>
with LED	Type	DRI424012L	DRI424024L	DRI424048L	DRI424110L
	Order No.	<b>7760056328</b>	<b>7760056329</b>	<b>7760056330</b>	<b>7760056331</b>
with LED + freewheel diode	Type	DRI424012LD	DRI424024LD	DRI424048LD	DRI424110LD
	Order No.	<b>7760056335</b>	<b>7760056336</b>	<b>7760056337</b>	<b>7760056338</b>
with test button + LED	Type	DRI424012LTD	DRI424024LTD	DRI424048LTD	DRI424110LTD
+ Free-wheel diode	Order No.	<b>7760056339</b>	<b>7760056340</b>	<b>7760056341</b>	<b>7760056342</b>

Note	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO

**Ordering data**

	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
<b>Input</b>			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	50 mA /	9.3 mA /	4,9 mA /
Power rating	1.2 VA	1.1 VA	1.1 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
<b>Output</b>			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data		24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Standard	Type	DRI424524	DRI424615	DRI424730
	Order No.	<b>7760056325</b>	<b>7760056326</b>	<b>7760056327</b>
with LED	Type	DRI424524L	DRI424615L	DRI424730L
	Order No.	<b>7760056332</b>	<b>7760056333</b>	<b>7760056334</b>
with test button + LED	Type	DRI424524LT	DRI424615LT	DRI424730LT
	Order No.	<b>7760056343</b>	<b>7760056344</b>	<b>7760056345</b>
	Type			
	Order No.			

Note	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Accessories for DRI relays

- Base, logical construction, input and output isolated
- Terminal-rail unlocking using screwdriver
- Wide assortment of functional modules

Technical data

<b>Output</b>	
Rated switching voltage	250 V AC
Max. switching voltage, AC	250 V
Continuous current	12 A
<b>Rated data</b>	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Approvals	CE; cURus
<b>Insulation coordination</b>	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 3 mm
Dielectric strength input - output	4 kV <sub>eff</sub> / 1 min.
Dielectric strength of neighbouring contacts	4.8 kV (1.2/50 µs)
Impulse withstand voltage	
<b>Connection data</b>	
Clamping range (nominal / min. / max.)	1.5 / 0.25 / 4 mm <sup>2</sup>
Tightening torque	0.5...0.8 Nm
Stripping length, rated connection	8 mm
<b>Note</b>	

Ordering data

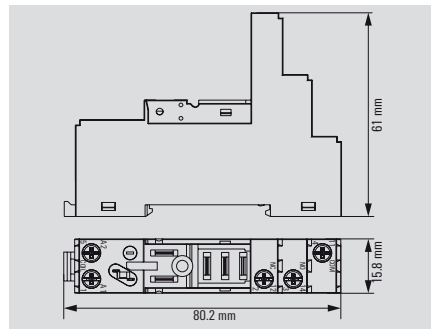
	Base on TS35 DIN rail
<b>Note</b>	

Accessories

<b>LED / functional modules</b>	
	Free-wheeling diode
	LED 6 - 24 V DC green and freewheeling diode
	LED 24 - 60 V DC green and free-wheeling diode
	LED 110 - 230 V DC green and free-wheeling diode
	LED 6 - 24 V UC green
	LED 24 - 60 V UC green
	LED 110 - 230 V UC green
	RC element 110 - 230 V AC; 4.7 kΩ / 10 nF
	RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green
<b>Retaining clip</b>	Plastic retaining clip
<b>Cross-connection</b>	Cross-connection, 8-pole
<b>Miscellaneous accessories</b>	Screwdriver, insulated PH1 SlimLine
	Screwdriver, insulated PH1

<b>Note</b>	
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Base with clamping yoke connection, 1 CO contact



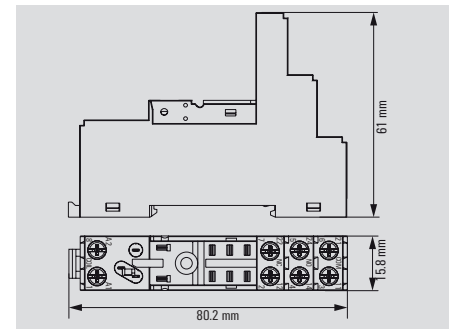
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SDI 1CO	10	7760056350

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SDI 1CO	10	7760056350

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	20	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	20	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SDI CLIP	10	7760056352
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SRC-I QV S	10	1132070000
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000

<b>Note</b>	
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Base with clamping yoke connection, 2 CO contacts



<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SDI 2CO	10	7760056351

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SDI 2CO	10	7760056351

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	20	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	20	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SDI CLIP	10	7760056352
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SRC-I QV S	10	1132070000
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000

<b>Note</b>	
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**Accessories for DRI relays**

- Flat design
- Pre-assembled plastic retaining clip
- DIN rail unlocked using screwdriver
- Touch-safe leaf spring connection

**Technical data**

<b>Output</b>	
Rated switching voltage	250 V AC
Max. switching voltage, AC	250 V
Continuous current	12 A
<b>Rated data</b>	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Approvals	CE
<b>Insulation coordination</b>	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 3 mm
Dielectric strength input - output	4 kV <sub>eff</sub> / 1 min.
Dielectric strength of neighbouring contacts	
Impulse withstand voltage	4.8 kV (1.2/50 µs)
<b>Connection data</b>	
Clamping range (nominal / min. / max.)	1.5 / 0.5 / 2.5 mm <sup>2</sup>
Tightening torque	0.5...0.8 Nm
Stripping length, rated connection	8 mm
<b>Note</b>	

**Ordering data**

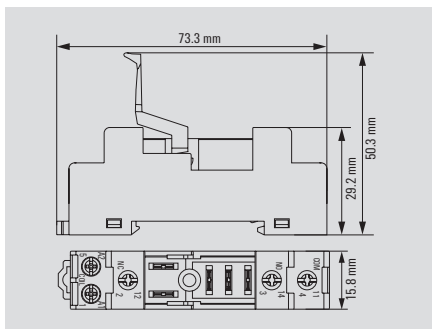
	Base on TS35 DIN rail
<b>Note</b>	

**Accessories**

<b>Miscellaneous accessories</b>	
Screwdriver, insulated PH1 SlimLine	
Screwdriver, insulated PH1	
<b>Insulated cable connector</b>	
Fork-type cable lug 0.5mm <sup>2</sup> - 1mm <sup>2</sup>	
Fork-type cable lug 1.5mm <sup>2</sup> - 2.5mm <sup>2</sup>	
Fork-type cable lug 0.5mm <sup>2</sup> - 1mm <sup>2</sup>	
Fork-type cable lug 1.5mm <sup>2</sup> - 2.5mm <sup>2</sup>	

**Note**

**Base with pressure clamping plate, 1 CO contact**



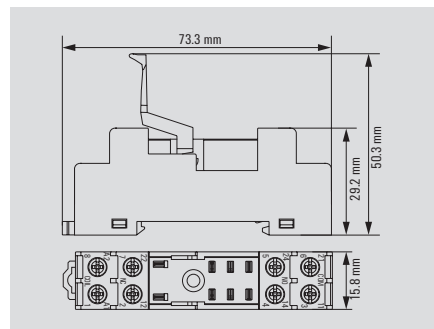
<b>Output</b>	
Rated switching voltage	250 V AC
Max. switching voltage, AC	250 V
Continuous current	12 A
<b>Rated data</b>	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Approvals	CE
<b>Insulation coordination</b>	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 3 mm
Dielectric strength input - output	4 kV <sub>eff</sub> / 1 min.
Dielectric strength of neighbouring contacts	
Impulse withstand voltage	4.8 kV (1.2/50 µs)
<b>Connection data</b>	
Clamping range (nominal / min. / max.)	1.5 / 0.5 / 2.5 mm <sup>2</sup>
Tightening torque	0.5...0.8 Nm
Stripping length, rated connection	8 mm
<b>Note</b>	

Type	Qty.	Order No.
SDI 1CO F ECO	10	7760056348

Type	Qty.	Order No.
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000
KQIG-M3/-1	100	1492520000
KQIG-M3/-2,5	100	1492600000
KQIG-M3,5/-1	100	1492530000
KQIG-M3,5/-2,5	100	1492610000

LED and protective modules are not compatible with this base.

**Base with pressure clamping plate, 2 CO contacts**



<b>Output</b>	
Rated switching voltage	250 V AC
Max. switching voltage, AC	250 V
Continuous current	8 A
<b>Rated data</b>	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Approvals	CE
<b>Insulation coordination</b>	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 3 mm
Dielectric strength input - output	4 kV <sub>eff</sub> / 1 min.
Dielectric strength of neighbouring contacts	2.5 kV <sub>eff</sub> / 1 min.
Impulse withstand voltage	4.8 kV (1.2/50 µs)
<b>Connection data</b>	
Clamping range (nominal / min. / max.)	1.5 / 0.5 / 2.5 mm <sup>2</sup>
Tightening torque	0.5...0.8 Nm
Stripping length, rated connection	8 mm
<b>Note</b>	

Type	Qty.	Order No.
SDI 2CO F ECO	10	7760056349

Type	Qty.	Order No.
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000
KQIG-M3/-1	100	1492520000
KQIG-M3/-2,5	100	1492600000

LED and protective modules are not compatible with this base.



**DRI KIT**

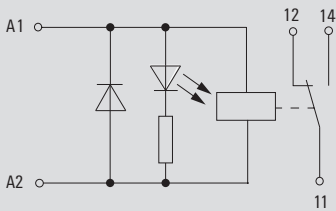
**1 CO contact, AC/DC coil**

- Assembled kit consisting of relay, base and retaining clip, incl. label
- 100% function-tested
- 100% control of the dielectric strength input - output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue) and mechanical switch position indicator
- Bright status LED (AC coil: red / DC coil: green)

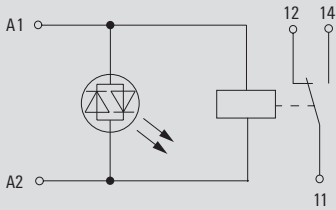


**Circuit diagram**

**DC coil LED+diode**



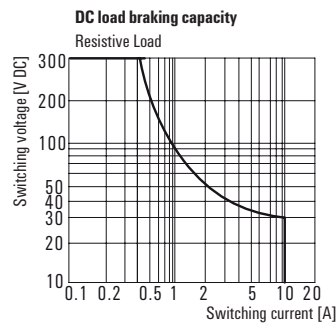
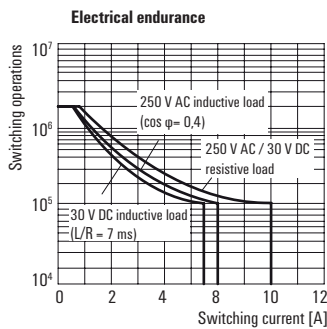
**AC coil LED:**



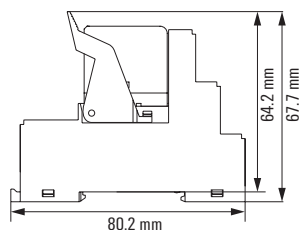
**Technical data**

<b>Output</b>	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi
Mechanical service life	10 x 10 <sup>6</sup> switching cycles
Max. switching frequency at rated load	0.1 Hz
<b>Rated data</b>	
Ambient temperature (operational)	-40 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE
<b>Insulation coordination (EN 50178)</b>	
Rated voltage	250 V
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Dielectric strength input - output	4 kV <sub>eff</sub> / 1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 3 mm
Overvoltage category	III
Pollution degree	2
<b>Dimensions</b>	
Clamping range (nominal / min. / max.)	mm <sup>2</sup> 1.5 / 0.25 / 4
Depth x width x height	see dimensioned drawing
<b>Note</b>	

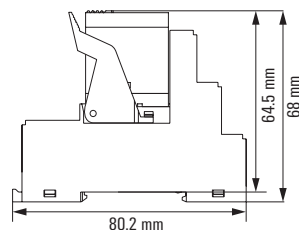
**Applications**



**Dimensioned drawing without test button**



**Dimensioned drawing with test button**



**DRI KIT**  
1 CO contact, AC/DC coil

<b>Type code</b>	DRIKIT				
<b>Type</b>	DRIKIT				
<b>Coil voltage</b>	12VDC	24VAC			
	24VDC	115VAC			
	48VDC	230VAC			
	110VDC				
<b>Type of contact</b>	1CO	1 Change over / SPDT			
	2CO	2 Change over / DPDT			
<b>Status LED / protective circuit</b>	LD	DC coil: LED green + free wheeling diode			
		AC coil: LED red			
<b>Test button</b>	/PB	DC coil: Test button blue			
		AC coil: Test button red			
		Blank: No test button			

**Ordering data**

	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
<b>Input</b>				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating	530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
Status indicator	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheel diode	Free-wheel diode	Free-wheel diode	Free-wheel diode
<b>Output</b>				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data					
with test button	Type	DRIKIT 12VDC 1CO LD/PB	DRIKIT 24VDC 1CO LD/PB	DRIKIT 48VDC 1CO LD/PB	DRIKIT 110VDC 1CO LD/PB
	Order No.	<b>2476740000</b>	<b>2476750000</b>	<b>2476760000</b>	<b>2476770000</b>
without test button	Type	DRIKIT 12VDC 1CO LD	DRIKIT 24VDC 1CO LD	DRIKIT 48VDC 1CO LD	DRIKIT 110VDC 1CO LD
	Order No.	<b>2476340000</b>	<b>2476680000</b>	<b>2476690000</b>	<b>2476700000</b>
	Type				
	Order No.				
	Type				
	Order No.				

Note				

**Ordering data**

	24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
<b>Input</b>			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	50 mA /	9.3 mA /	4,9 mA /
Power rating	1.2 VA	1.1 VA	1.1 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Status indicator	red LED	red LED	red LED
Protective circuit			
<b>Output</b>			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data				
with test button	Type	DRIKIT 24VAC 1CO LD/PB	DRIKIT 115VAC 1CO LD/PB	DRIKIT 230VAC 1CO LD/PB
	Order No.	<b>2476780000</b>	<b>2476790000</b>	<b>2476800000</b>
without test button	Type	DRIKIT 24VAC 1CO LD	DRIKIT 115VAC 1CO LD	DRIKIT 230VAC 1CO LD
	Order No.	<b>2476710000</b>	<b>2476720000</b>	<b>2476730000</b>
	Type			
	Order No.			
	Type			
	Order No.			

Note			



**DRI KIT**

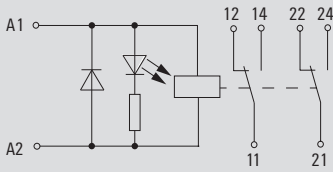
**2 CO contact, AC/DC coil**

- Assembled kit consisting of relay, base and retaining clip, incl. label
- 100% function-tested
- 100% control of the dielectric strength input - output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue) and mechanical switch position indicator
- Bright status LED (AC coil: red / DC coil: green)

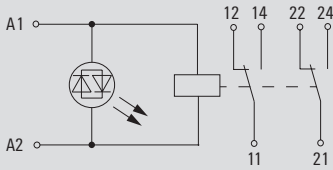


**Circuit diagram**

**DC coil LED+diode**



**AC coil LED:**

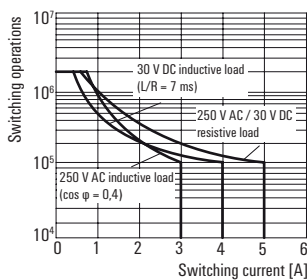


**Technical data**

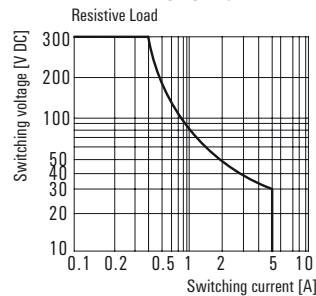
Output	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	150 W @ 24 V / 1250 VA
Contact material	AgNi
Mechanical service life	10 x 10 <sup>6</sup> switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE
Insulation coordination (EN 50178)	
Rated voltage	250 V
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Dielectric strength input - output	4 kV <sub>eff</sub> / 1 min
Dielectric strength of neighbouring contacts	1.5 kV <sub>eff</sub> / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 3 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm <sup>2</sup> 1.5 / 0.25 / 4
Depth x width x height	see dimensioned drawing
Note	

**Applications**

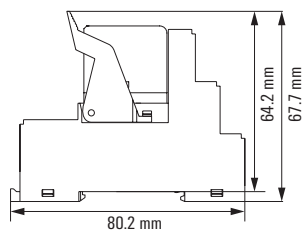
**Electrical endurance**



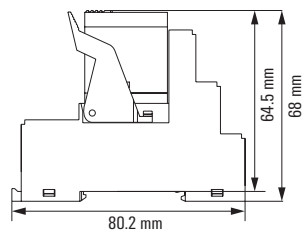
**DC load braking capacity**



**Dimensioned drawing without test button**



**Dimensioned drawing with test button**



**DRI KIT**  
2 CO contact, AC/DC coil

<b>Type code</b>	DRIKIT				
<b>Type</b>	DRIKIT				
<b>Coil voltage</b>	12VDC	24VAC			
	24VDC	115VAC			
	48VDC	230VAC			
	110VDC				
<b>Type of contact</b>	1CO	1 Change over / SPDT			
	2CO	2 Change over / DPDT			
<b>Status LED / protective circuit</b>	LD	DC coil: LED green + free wheeling diode			
		AC coil: LED red			
<b>Test button</b>	/PB	DC coil: Test button blue			
		AC coil: Test button red			
		Blank: No test button			

**Ordering data**

	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
<b>Input</b>				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating	530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
Status indicator	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheel diode	Free-wheel diode	Free-wheel diode	Free-wheel diode
<b>Output</b>				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data					
with test button	Type	DRIKIT 12VDC 2CO LD/PB	DRIKIT 24VDC 2CO LD/PB	DRIKIT 48VDC 2CO LD/PB	DRIKIT 110VDC 2CO LD/PB
	Order No.	<b>2476880000</b>	<b>2476890000</b>	<b>2476900000</b>	<b>2476910000</b>
without test button	Type	DRIKIT 12VDC 2CO LD	DRIKIT 24VDC 2CO LD	DRIKIT 48VDC 2CO LD	DRIKIT 110VDC 2CO LD
	Order No.	<b>2476810000</b>	<b>2476820000</b>	<b>2476830000</b>	<b>2476840000</b>
	Type				
	Order No.				
	Type				
	Order No.				

Note				

**Ordering data**

	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
<b>Input</b>			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	50 mA /	9.3 mA /	4,9 mA /
Power rating	1.2 VA	1.1 VA	1.1 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Status indicator	red LED	red LED	red LED
Protective circuit			
<b>Output</b>			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data				
with test button	Type	DRIKIT 24VAC 2CO LD/PB	DRIKIT 115VAC 2CO LD/PB	DRIKIT 230VAC 2CO LD/PB
	Order No.	<b>2476920000</b>	<b>2476930000</b>	<b>2476940000</b>
without test button	Type	DRIKIT 24VAC 2CO LD	DRIKIT 115VAC 2CO LD	DRIKIT 230VAC 2CO LD
	Order No.	<b>2476850000</b>	<b>2476860000</b>	<b>2476870000</b>
	Type			
	Order No.			
	Type			
	Order No.			

Note			



Technical data

Machinery

Process

Energy

Transportation

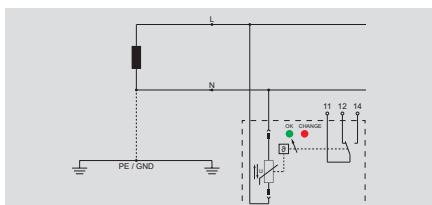
Device Manufacturers

**Typ II UL 1449 Ed.4**

- SPD according to UL 1449 Ed.4
- Installation-ready modules specifically for American mains systems
- Higher SCCR of 200 kA
- Pluggable arrester
- Insert can be rotated through 180°
- Coded voltage level

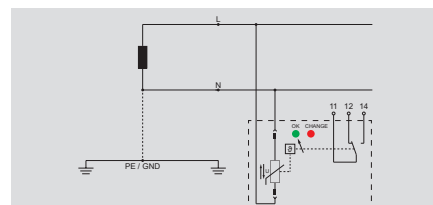
**VPU II 1 SP 127 V / R**

Single phase



**VPU II 1 SP 277 V / R**

Single phase



**Technical data**

<b>Rated data IEC / EN</b>	
Rated voltage (AC)	120 V
Max. continuous voltage, U <sub>c</sub> (AC)	180 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20μs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20μs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 0.9 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 1TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	127 V
Continuous voltage U <sub>c</sub> , max.	180 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	180 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	800 V
Test Voltage 39.1 (UL 1449)	240 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Technical data</b>	
Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	385 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20μs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20μs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1,85 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 1TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	277 V
Continuous voltage U <sub>c</sub> , max.	385 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	385 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1500 V
Test Voltage 39.1 (UL 1449)	480 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Dimensions / Signalling contact info</b>	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

no remote sig. contact	with remote signalling (R)
16 / 4 / 25	16 / 4 / 25
94 / 18 / 69	106 / 18 / 69
	250 V 1A 1CO

no remote sig. contact	with remote signalling (R)
16 / 4 / 25	16 / 4 / 25
94 / 18 / 69	106 / 18 / 69
	250 V 1A 1CO

**Ordering data**

	without remote signalling contact
	with remote signalling contact (R)
<b>Note</b>	
<b>Accessories</b>	
<b>Note</b>	

Type	Qty.	Order No.
VPU II 1 SP 127V	1	2025830000
VPU II 1 SP 127V R	1	2025040000
<b>Note</b>		
Pluggable spare arrester VPU II 0 180V - 2025070000		

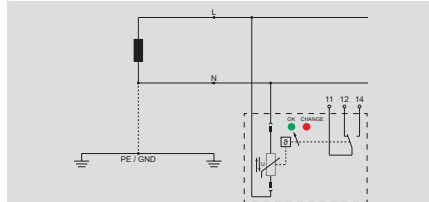
Type	Qty.	Order No.
VPU II 1 SP 277V	1	2025800000
VPU II 1 SP 277V R	1	2025050000
<b>Note</b>		
Pluggable spare arrester VPU II 0 385V - 2025100000		

**Typ II UL 1449 Ed.4**

- SPD according to UL 1449 Ed.4
- Installation-ready modules specifically for American mains systems
- Higher SCCR of 200 kA
- Pluggable arrester
- Insert can be rotated through 180°
- Coded voltage level

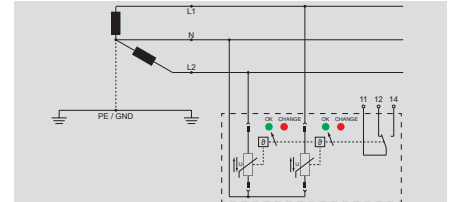
**VPU II 1 SP 347 V / R**

Single phase



**VPU II 2W+N 120 / 240 V / R**

Single phase



**Technical data**

<b>Rated data IEC / EN</b>	
Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	510 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 2.1 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 1TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	347 V
Continuous voltage U <sub>c</sub> , max.	510 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	510 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1800 V
Test Voltage 39.1 (UL 1449)	600 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Dimensions / Signalling contact info</b>	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

**Ordering data**

	without remote signalling contact
	with remote signalling contact (R)

**Note**

**Accessories**

<b>Note</b>	Pluggable spare arrester VPU II 0 510V - 2025110000
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<b>Technical data</b>	
Rated voltage (AC)	120 V
Max. continuous voltage, U <sub>c</sub> (AC)	180 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 0.9 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 2TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	120 V
Continuous voltage U <sub>c</sub> , max.	180 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	180 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	800 V
Test Voltage 39.1 (UL 1449)	240 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Dimensions / Signalling contact info</b>	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

	without remote signalling contact	with remote signalling (R)
	16 / 4 / 25	16 / 4 / 25
	94 / 18 / 69	106 / 18 / 69
		250 V 1A 1CO

**Note**

<b>Note</b>	Pluggable spare arrester VPU II 0 180V - 2025070000
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<b>Technical data</b>	
Rated voltage (AC)	120 V
Max. continuous voltage, U <sub>c</sub> (AC)	180 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 0.9 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 2TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	120 V
Continuous voltage U <sub>c</sub> , max.	180 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	180 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	800 V
Test Voltage 39.1 (UL 1449)	240 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Dimensions / Signalling contact info</b>	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

	without remote signalling contact	with remote signalling (R)
	16 / 4 / 25	16 / 4 / 25
	94 / 36 / 69	106 / 36 / 69
		250 V 1A 1CO

**Note**

<b>Note</b>	Pluggable spare arrester VPU II 0 180V - 2025070000
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Technical data  
Machinery  
Process  
Energy  
Transportation  
Device Manufacturers

Technical data

Machinery

Process

Energy

Transportation

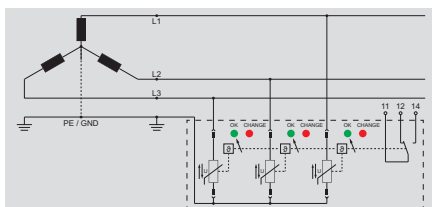
Device Manufacturers

**Typ II UL 1449 Ed.4**

- SPD according to UL 1449 Ed.4
- Installation-ready modules specifically for American mains systems
- Higher SCCR of 200 kA
- Pluggable arrester
- Insert can be rotated through 180°
- Coded voltage level

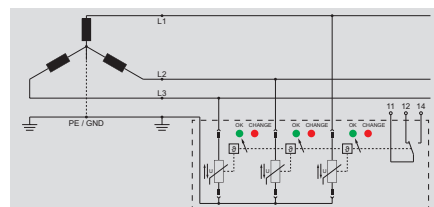
**VPU II 3W WYE 120 V / R**

3-phase WYE



**VPU II 3W WYE 277 V / R**

3-phase WYE



**Technical data**

<b>Rated data IEC / EN</b>	
Rated voltage (AC)	120 V
Max. continuous voltage, U <sub>c</sub> (AC)	180 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20μs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20μs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 0.9 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 3TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	120 V
Continuous voltage U <sub>c</sub> , max.	180 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	180 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	800 V
Test Voltage 39.1 (UL 1449)	208 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Technical data</b>	
Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	385 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20μs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20μs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1,85 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 3TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	277 V
Continuous voltage U <sub>c</sub> , max.	385 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	385 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1500 V
Test Voltage 39.1 (UL 1449)	480 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Technical data</b>	
Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	385 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20μs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20μs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1,85 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 3TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	277 V
Continuous voltage U <sub>c</sub> , max.	385 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	385 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1500 V
Test Voltage 39.1 (UL 1449)	480 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Dimensions / Signalling contact info</b>	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

<b>no remote sig. contact</b>	<b>with remote signalling (R)</b>
16 / 4 / 25	16 / 4 / 25
94 / 54 / 69	106 / 54 / 69
	250 V 1A 1CO
<b>Note</b>	

<b>no remote sig. contact</b>	<b>with remote signalling (R)</b>
16 / 4 / 25	16 / 4 / 25
94 / 54 / 69	106 / 54 / 69
	250 V 1A 1CO
<b>Note</b>	

**Ordering data**

	without remote signalling contact
	with remote signalling contact (R)

Type	Qty.	Order No.
VPU II 3W WYE 120V	1	2025520000
VPU II 3W WYE 120V R	1	2024600000

Type	Qty.	Order No.
VPU II 3W WYE 277V	1	2025530000
VPU II 3W WYE 277V R	1	2024810000

<b>Note</b>
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<b>Note</b>
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<b>Note</b>
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**Accessories**

<b>Note</b>
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Pluggable spare arrester VPU II 0 180V - 2025070000
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Pluggable spare arrester VPU II 0 385V - 2025100000
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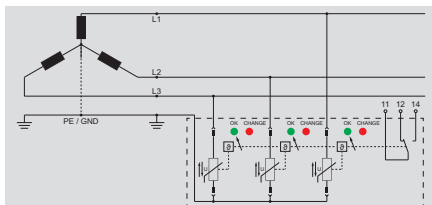


**Typ II UL 1449 Ed.4**

- SPD according to UL 1449 Ed.4
- Installation-ready modules specifically for American mains systems
- Higher SCCR of 200 kA
- Pluggable arrester
- Insert can be rotated through 180°
- Coded voltage level

**VPU II 3W WYE 347 V / R**

3-phase WYE



**Technical data**

Rated data IEC / EN	
Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	510 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 2.1 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 3TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C

Rated data UL	
Rated Voltage U <sub>n</sub>	347 V
Continuous voltage U <sub>c</sub> , max.	510 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	510 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1800 V
Test Voltage 39.1 (UL 1449)	600 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261

Connection according to IEC 947-7-1	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm

Approvals	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

Dimensions / Signalling contact info	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

**Ordering data**

	without remote signalling contact
	with remote signalling contact (R)

Note	

**Accessories**

Note	
	Pluggable spare arrester VPU II O 510V - 2025110000

Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	510 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 2.1 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 3TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Rated Voltage U <sub>n</sub>	347 V
Continuous voltage U <sub>c</sub> , max.	510 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	510 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1800 V
Test Voltage 39.1 (UL 1449)	600 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

	no remote sig. contact	with remote signalling (R)
Clamping range (nominal / min. / max.)	16 / 4 / 25	16 / 4 / 25
Height x width x depth	94 / 54 / 69	106 / 54 / 69
Signalling contact		250 V 1A 1CO
<b>Note</b>		

Type	Qty.	Order No.
VPU II 3W WYE 347V	1	2025570000
VPU II 3W WYE 347V R	1	2024820000

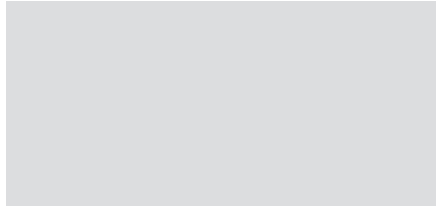
Note	

Note	
	Pluggable spare arrester VPU II O 510V - 2025110000



**Typ II UL 1449 Ed.4**

- SPD according to UL 1449 Ed.4
- Installation-ready modules specifically for American mains systems
- Higher SCCR of 200 kA
- Pluggable arrester
- Insert can be rotated through 180°
- Coded voltage level



**Technical data**

<b>Rated data IEC / EN</b>	
Rated voltage (AC)	200 V
Max. continuous voltage, U <sub>c</sub> (AC)	275 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1.25 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 3TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	240 V
Continuous voltage U <sub>c</sub> , max.	275 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	275 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1000 V
Test Voltage 39.1 (UL 1449)	240 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Dimensions / Signalling contact info</b>	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

**Ordering data**

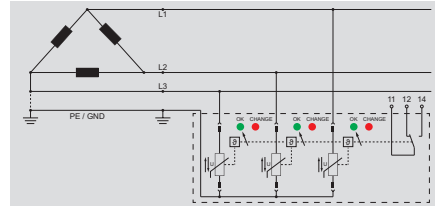
	without remote signalling contact
	with remote signalling contact (R)
<b>Note</b>	

**Accessories**

<b>Note</b>	Pluggable spare arrester VPU II O 275V - 2025080000
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**VPU II 3WDA L-G 240 V / R**

Delta System



Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	550 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1.25 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 3TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	240 V
Continuous voltage U <sub>c</sub> , max.	275 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	275 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1000 V
Test Voltage 39.1 (UL 1449)	240 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>no remote sig. contact</b>	<b>with remote signalling (R)</b>
16 / 4 / 25	16 / 4 / 25
94 / 54 / 69	106 / 54 / 69
	250 V 1A 1CO
<b>Note</b>	

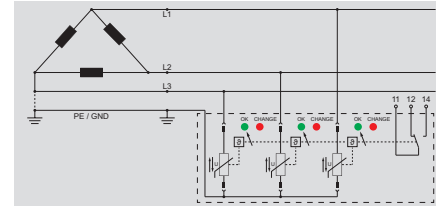
Type	Qty.	Order No.
VPU II 3WDA L-G 240V	1	2025580000
VPU II 3WDA L-G 240V R	1	2024830000

<b>Note</b>	
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<b>Note</b>	Pluggable spare arrester VPU II O 275V - 2025080000
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**VPU II 3WDA L-G 480 V / R**

Delta System



Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	550 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1.25 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 3TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	480 V
Continuous voltage U <sub>c</sub> , max.	550 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	550 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1800 V
Test Voltage 39.1 (UL 1449)	480 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>no remote sig. contact</b>	<b>with remote signalling (R)</b>
16 / 4 / 25	16 / 4 / 25
94 / 54 / 69	106 / 54 / 69
	250 V 1A 1CO
<b>Note</b>	

Type	Qty.	Order No.
VPU II 3WDA L-G 480V	1	2025600000
VPU II 3WDA L-G 480V R	1	2024840000

<b>Note</b>	
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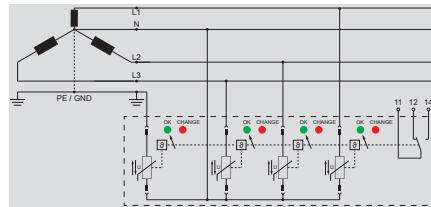
<b>Note</b>	Pluggable spare arrester VPU II O 550V - 2024620000
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**Typ II UL 1449 Ed.4**

- SPD according to UL 1449 Ed.4
- Installation-ready modules specifically for American mains systems
- Higher SCCR of 200 kA
- Pluggable arrester
- Insert can be rotated through 180°
- Coded voltage level

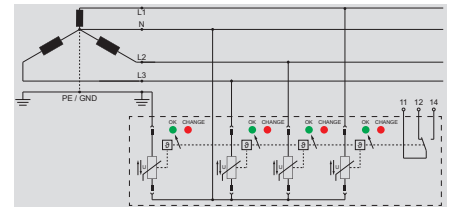
**VPU II 4W+G WYE 120 V / R**

3-phase WYE



**VPU II 4W+G WYE 277 V / R**

3-phase WYE



**Technical data**

<b>Rated data IEC / EN</b>	
Rated voltage (AC)	120 V
Max. continuous voltage, U <sub>c</sub> (AC)	180 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 0.9 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing: 4TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	120 V
Continuous voltage U <sub>c</sub> , max.	180 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	180 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	800 V
Test Voltage 39.1 (UL 1449)	208 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

<b>Dimensions / Signalling contact info</b>	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

**Ordering data**

	without remote signalling contact
	with remote signalling contact (R)

<b>Note</b>
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**Accessories**

<b>Note</b>
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Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	385 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1,85 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing: 4TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	277 V
Continuous voltage U <sub>c</sub> , max.	385 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	385 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1500 V
Test Voltage 39.1 (UL 1449)	480 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

	<b>no remote sig. contact</b>	<b>with remote signalling (R)</b>
	16 / 4 / 25	16 / 4 / 25
	94 / 72 / 69	106 / 72 / 69
		250 V 1A 1CO

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
VPU II 4W+G WYE 120V	1	2026360000
VPU II 4W+G WYE 120V R	1	2024880000

<b>Note</b>
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Pluggable spare arrester L/N-PE VPU II 0 180V - 2025070000 and N-PE VPU II 0 180V - 2025070000
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Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	385 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1,85 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing: 4TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
<b>Rated data UL</b>	
Rated Voltage U <sub>n</sub>	277 V
Continuous voltage U <sub>c</sub> , max.	385 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	385 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1500 V
Test Voltage 39.1 (UL 1449)	480 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261
<b>Connection according to IEC 947-7-1</b>	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

	<b>no remote sig. contact</b>	<b>with remote signalling (R)</b>
	16 / 4 / 25	16 / 4 / 25
	94 / 72 / 69	106 / 72 / 69
		250 V 1A 1CO

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
VPU II 4W+G WYE 277V	1	2026150000
VPU II 4W+G WYE 277V R	1	2024860000

<b>Note</b>
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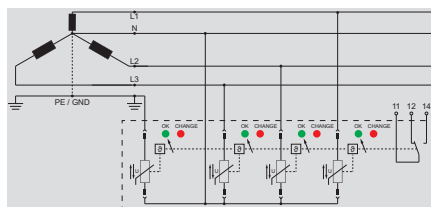
Pluggable spare arrester L/N-PE VPU II 0 385V - 2025100000 and N-PE VPU II 0 180V - 2025070000
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**Typ II UL 1449 Ed.4**

- SPD according to UL 1449 Ed.4
- Installation-ready modules specifically for American mains systems
- Higher SCCR of 200 kA
- Pluggable arrester
- Insert can be rotated through 180°
- Coded voltage level

**VPU II 4W+G WYE 347 V / R**

3-phase WYE



**Technical data**

Rated data IEC / EN	
Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	510 V
Requirements category acc. to IEC 61643-11 / EN 61643-11	Type II / T2
Discharge current I <sub>n</sub> (8/20μs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20μs) wire-PE	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Response time	≤ 25 ns
Fuse	125 A gL (if back-up fuse > 125 A)
Protection level with I <sub>n</sub> (L/N-PE)	≤ 2.1 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing: 4TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C

Rated data UL	
Rated Voltage U <sub>n</sub>	240 V
Continuous voltage U <sub>c</sub> , max.	510 V
Nominal Discharge Current I <sub>n</sub>	20 kA
Maximum Continuous Operating Voltage, MCOV (L/N-PE)	510 Vac
Short Circuit Current Rating, (SCCR)	200 kA
Voltage Protection Rating, VPR (L/N-PE)	1800 V
Test Voltage 39.1 (UL 1449)	600 V
Category	SPD TYPE 1CA/2CA
UL certificate	VZCA.E354261

Connection according to IEC 947-7-1	
Stranded	4...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm

Approvals	
Approvals	cURus
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4

Dimensions / Signalling contact info	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

	no remote sig. contact	with remote signalling (R)
	16 / 4 / 25	16 / 4 / 25
	94 / 72 / 69	106 / 72 / 69
		250 V 1A 1CO
<b>Note</b>		

**Ordering data**

	without remote signalling contact
	with remote signalling contact (R)

Type	Qty.	Order No.
VPU II 4W+G WYE 347V	1	2026050000
VPU II 4W+G WYE 347V R	1	2025140000

Note

**Accessories**

Note
Pluggable spare arrester L/N-PE VPU II 0 510V - 2025110000 and N-PE VPU II 0 180V - 2025070000



Device  
Manufacturers



Transportation



Energy



Process



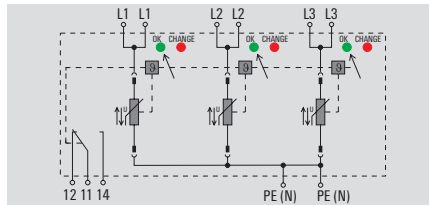
Machinery

Technical data

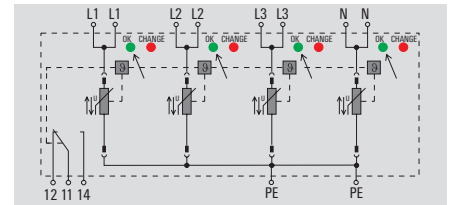
### Type I and II lightning arrester

- Pluggable arrester
- Suitable with 25 kA (10/350 μs) for protective level I, II, III and IV (LPL I/II/III/IV)
- Tested according to IEC 61643-11 for Type I and II surge protection
- Can also be used as Type II surge protection
- Field of application downstream of the main electrical meter

### VPU I 3/R 280 V / 25 kA



### VPU I 4/R 280 V / 25 kA



### Technical data

Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	280 V
Lightning test current I <sub>imp</sub> (10/350 μs) [L-PE]	25 kA
Discharge current I <sub>n</sub> (8/20 μs) wire-PE	25 kA
Discharge current I <sub>max</sub> (8/20 μs) wire-PE	100 kA
Requirements class, acc. to EN 61643-11	T1, T2
Short-circuit current rating I <sub>scCR</sub>	25 kA
Leakage current at U <sub>n</sub>	30 μA
Rated load current I <sub>L</sub>	100 A
Fuse	250 A gL (if mains > 250 A)
Temporary surge voltage (over-voltage) - TOV	438 V
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1.4 kV
Response time	≤ 25 ns
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 6 TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...80 °C
<b>Connection according to IEC 947-7-1</b>	
Solid	4...16 mm <sup>2</sup>
Stranded	2.5...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	
Standards	IEC61643-11, EN61643-11

Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	280 V
Lightning test current I <sub>imp</sub> (10/350 μs) [L-PE]	25 kA
Discharge current I <sub>n</sub> (8/20 μs) wire-PE	25 kA
Discharge current I <sub>max</sub> (8/20 μs) wire-PE	100 kA
Requirements class, acc. to EN 61643-11	T1, T2
Short-circuit current rating I <sub>scCR</sub>	25 kA
Leakage current at U <sub>n</sub>	30 μA
Rated load current I <sub>L</sub>	100 A
Fuse	250 A gL (if mains > 250 A)
Temporary surge voltage (over-voltage) - TOV	438 V
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1.4 kV
Response time	≤ 25 ns
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 6 TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...80 °C
<b>Connection according to IEC 947-7-1</b>	
Solid	4...16 mm <sup>2</sup>
Stranded	2.5...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	
Standards	IEC61643-11, EN61643-11

Rated voltage (AC)	230 V
Max. continuous voltage, U <sub>c</sub> (AC)	280 V
Lightning test current I <sub>imp</sub> (10/350 μs) [L-PE]	25 kA
Discharge current I <sub>n</sub> (8/20 μs) wire-PE	25 kA
Discharge current I <sub>max</sub> (8/20 μs) wire-PE	100 kA
Requirements class, acc. to EN 61643-11	T1, T2
Short-circuit current rating I <sub>scCR</sub>	25 kA
Leakage current at U <sub>n</sub>	30 μA
Rated load current I <sub>L</sub>	100 A
Fuse	250 A gL (if mains > 250 A)
Temporary surge voltage (over-voltage) - TOV	438 V
Protection level with I <sub>n</sub> (L/N-PE)	≤ 1.4 kV
Response time	≤ 25 ns
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing; 8 TE, Insta IP 20
Colour	Black, Arrester red
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...80 °C
<b>Connection according to IEC 947-7-1</b>	
Solid	4...16 mm <sup>2</sup>
Stranded	2.5...50 mm <sup>2</sup>
Stripping length	15 mm
Tightening torque	2...3 Nm
<b>Approvals</b>	
Approvals	
Standards	IEC61643-11, EN61643-11

Dimensions / Signalling contact info	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Height x width x depth	mm
Signalling contact	
<b>Note</b>	

no remote sig. contact	with remote signalling (R)
16 / 4 / 25	16 / 4 / 25
94 / 106.8 / 69	106 / 106.8 / 69
	250 V 1A 1CO
<b>Note</b>	

no remote sig. contact	with remote signalling (R)
16 / 4 / 25	16 / 4 / 25
94 / 142.4 / 69	106 / 142.4 / 69
No	250 V 1A 1CO
<b>Note</b>	

### Ordering data

Type	Qty.	Order No.
VPU I 3 280V/25KA	1	2062940000
VPU I 3 R 280V/25KA	1	2062910000

Type	Qty.	Order No.
VPU I 4 280V/25KA	1	2062960000
VPU I 4 R 280V/25KA	1	2062950000

Type	Qty.	Order No.
VPU I 4 280V/25KA	1	2062960000
VPU I 4 R 280V/25KA	1	2062950000

<b>Note</b>
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<b>Note</b>
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<b>Note</b>
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### Accessories

<b>Note</b>
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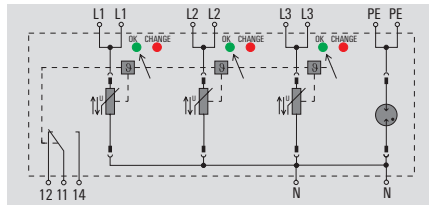
Pluggable spare arrester VPU I 0 280 V/25 kA-2067650000
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Pluggable spare arrester VPU I 0 280 V/25 kA-2067650000
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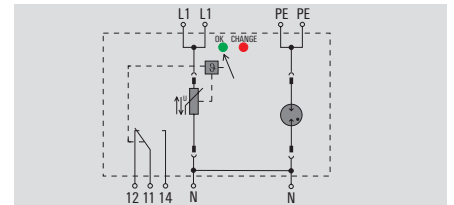
**Type I and II lightning arrester**

- Pluggable arrester
- Suitable with 25 kA (10/350 μs) for protective level I, II, III and IV (LPL I/II/III/IV)
- Tested according to IEC 61643-11 for Type I and II surge protection
- Can also be used as Type II surge protection
- Field of application downstream of the main electrical meter

**VPU I 3+1/R 280 V / 25 kA**



**VPU I 1+1/R 280 V / 25 kA**



**Technical data**

Rated voltage (AC)  
 Max. continuous voltage, U<sub>c</sub> (AC)  
 Max. continuous voltage, U<sub>c</sub> (N-PE)  
 Lightning test current I<sub>imp</sub> (10/350 μs) [L-PE]  
 Lightning test current I<sub>imp</sub> (10/350 μs) [N-PE]  
 Discharge current I<sub>n</sub> (8/20μs) wire-PE  
 Discharge current I<sub>n</sub> (8/20μs) GND-PE  
 Discharge current I<sub>n</sub> (8/20μs) wire-PE  
 Discharge current I<sub>n</sub> (8/20μs) GND-PE  
 Requirements class, acc. to EN 61643-11  
 Short-circuit current rating I<sub>scCR</sub>  
 Leakage current at U<sub>n</sub>  
 Rated load current I<sub>L</sub>  
 Fuse  
 Temporary surge voltage (over-voltage) - TOV  
 Protection level with I<sub>n</sub> (L/N-PE)  
 Protection level with I<sub>n</sub> (N-PE)  
 Response time  
 Optical function display  
 Design  
 Colour  
 Ambient temperature (operational)  
 Storage temperature

**Connection according to IEC 947-7-1**

Solid  
 Stranded  
 Stripping length  
 Tightening torque

**Approvals**

Approvals  
 Standards

**Dimensions / Signalling contact info**

Clamping range (nominal / min. / max.) mm<sup>2</sup>  
 Height x width x depth mm  
 Signalling contact

**Note**

**Ordering data**

without remote signalling contact  
 with remote signalling contact (R)

**Note**

**Accessories**

**Note**

230 V  
 280 V  
 260 V  
 25 kA  
 100 kA  
 25 kA  
 100 kA  
 100 kA  
 100 kA  
 T1, T2  
 25 kA  
 30 μA  
 100 A  
 250 A gL (if mains > 250 A)  
 438 V  
 ≤ 1.4 kV  
 ≤ 1.6 kV  
 ≤ 25 ns  
 green = OK; red = arrester is defective - replace  
 Installation housing: 8 TE, Insta IP 20  
 Black, Arrester red / blue  
 -40 °C...70 °C  
 -40 °C...80 °C

4...16 mm<sup>2</sup>  
 2.5...50 mm<sup>2</sup>  
 15 mm  
 2...3 Nm

IEC61643-11, EN61643-11

**no remote sig. contact      with remote signalling (R)**

16 / 4 / 25	16 / 4 / 25
94 / 142.4 / 69	106 / 142.4 / 69
No	250 V 1A 1CO

Type	Qty.	Order No.
VPU I 3+1 280V/25KA	1	2063080000
VPU I 3+1 R 280V/25KA	1	2063070000

Pluggable spare arrester VPU I 0 280 V/25 kA-2067650000;  
 VPU I 0 N-PE 260 V/100 kA-1351940000

230 V  
 280 V  
 260 V  
 25 kA  
 100 kA  
 25 kA  
 100 kA  
 100 kA  
 100 kA  
 T1, T2  
 25 kA  
 30 μA  
 100 A  
 250 A gL (if mains > 250 A)  
 438 V  
 ≤ 1.4 kV  
 ≤ 1.6 kV  
 ≤ 25 ns  
 green = OK; red = arrester is defective - replace  
 Installation housing: 4TE, Insta IP 20  
 Black, Arrester red / blue  
 -40 °C...70 °C  
 -40 °C...80 °C

4...16 mm<sup>2</sup>  
 2.5...50 mm<sup>2</sup>  
 15 mm  
 2...3 Nm

IEC61643-11, EN61643-11

**no remote sig. contact      with remote signalling (R)**

16 / 4 / 25	16 / 4 / 25
94 / 71.2 / 69	106 / 71.2 / 69
No	250 V 1A 1CO

Type	Qty.	Order No.
VPU I 1+1 280V/25KA	1	2063060000
VPU I 1+1 R 280V/25KA	1	2063040000

Pluggable spare arrester VPU I 0 280 V/25 kA-2067650000;  
 VPU I 0 N-PE 260 V/100 kA-1351940000

### Graphically programmable logic modules

- For simple instrumentation and control tasks
- Digital and analogue inputs
- Digital outputs + PWM output
- Suitable for high temperature and vibration requirements

### Logit Unit WCU 501



### Logit Unit WCU 650



#### Technical data

General data	
Type of connection / Wire connection method	Plug-in spring-type terminals (0.25 - 1.5 mm <sup>2</sup> ) / PUSH IN
Operating voltage	+VDD: 7...32 V DC
Input fuse	max. 8 A (external)
Optical function display	LED
Interface	Serial RS232
Protection degree	IP20
Encapsulation compound	Polyurethane (PU)
Analogue inputs	
Number	3
Pin assignment	IN 3, IN 4, IN 5
Resolution	10 Bit
Input voltage (U <sub>in</sub> )	0...30 V DC
Precision	± 3 % (0.5 V DC)
Digital inputs	
Number	2
Pin assignment	IN 1, IN 2
Input frequency (f <sub>in</sub> )	≤ 1 kHz
Input voltage (U <sub>in</sub> )	0...30 V DC
Digital outputs	
Number	4
Pin assignment	OUT 1, OUT 2, OUT 3, OUT 4
Total output current (I <sub>TOU</sub> ) / Output current per channel (I <sub>OU</sub> )	≤ 4 A / < 1.5 A
Switching frequency (f <sub>OUT</sub> )	0...100 Hz
PWM output	
Number of	1
Pin assignment	OUT 5
Output current per channel (I <sub>OUT</sub> )	≤ 1 A
Note	Can also be used as a digital output (ground-switching)
Switching frequency (f <sub>OUT</sub> )	1...10 kHz
Type	Ground switching
Temperatures	
Ambient temperature (operational) / Storage temperature	-40 °C...70 °C / -40 °C...70 °C
EMC / shock / vibration	
EMC interference resistance	EN 61000-6-2:2005
Shock resistance	min. 100 m/s <sup>2</sup> (10 g)
Vibration resistance	min. 50 m/s <sup>2</sup> (5 g) @ 9...200 Hz
CAN interface	
Bus system	
Baud rate	
Identifier	

General data		
Type of connection / Wire connection method	Plug-in spring-type terminals (0.25 - 1.5 mm <sup>2</sup> ) / PUSH IN	
Operating voltage	+VDD: 7...32 V DC	
Input fuse	max. 8 A (external)	
Optical function display	LED	
Interface	Serial RS232	
Protection degree	IP20	
Encapsulation compound	Polyurethane (PU)	
Analogue inputs		
Number	6	
Pin assignment	IN 1, IN 2, IN 3, IN 4, IN 5, IN 6	
Resolution	12-bit	
Input voltage (U <sub>in</sub> )	0...30 V DC	
Precision	± 2% (0.25 V DC)	
Digital inputs		
Number	4	
Pin assignment	IN 7, IN 8, IN 9, IN 10	
Input frequency (f <sub>in</sub> )	≤ 1 kHz	
Input voltage (U <sub>in</sub> )	0...30 V DC	
Digital outputs		
Number	8	
Pin assignment	OUT 1, OUT 2, OUT 3, OUT 4, OUT 5, OUT 6, OUT 7, OUT 8	
Total output current (I <sub>TOU</sub> ) / Output current per channel (I <sub>OU</sub> )	≤ 6 A / ≤ 1.5 A	
Switching frequency (f <sub>OUT</sub> )	0...100 Hz	
PWM output		
Number of	1	
Pin assignment	OUT 9	
Output current per channel (I <sub>OUT</sub> )	≤ 1 A	
Note	Can also be used as a digital output (ground-switching)	
Switching frequency (f <sub>OUT</sub> )	1...10 kHz	
Type	Ground switching	
Temperatures		
Ambient temperature (operational) / Storage temperature	-40 °C...70 °C / -40 °C...70 °C	
EMC / shock / vibration		
EMC interference resistance	EN 61000-6-2:2005	
Shock resistance	min. 100 m/s <sup>2</sup> (10 g)	
Vibration resistance	min. 50 m/s <sup>2</sup> (5 g) @ 10...150 Hz	
CAN interface		
Bus system	ISO 11898-2, CAN 2.0B, CAN 2.0A	
Baud rate	100 kbit, 125 kbit, 250 kbit, 500 kbit	
Identifier	11bit / 29 bit	

Dimensions		
Depth x width x height	31 / 44 / 40	
Note		
Ordering data		
Type	Qty.	Order No.
graphically programmable logic module	1	1517130000
graphically programmable logic module, CAN interface		
Logic module incl. USB programming adapter	1	1548720000
Note	You can download the software from the product catalogue on the Weidmüller website.	

Dimensions		
Depth x width x height	30 / 45 / 93	
Note		
Ordering data		
Type	Qty.	Order No.
LOGIC UNIT WCU 650	1	2010680000
STARTERKIT WCU 650	1	2007290000
Note	You can download the software from the product catalogue on the Weidmüller website.	





Customer specific 1,500 V DC Combiner Boxes

Combiner Boxes 1,500 V DC



Technical data

Machinery

Process

Energy

Transportation

Device  
Manufacturers

Technical data

Inputs  
 Outputs  
 Current per string (A)  
 Rated voltage (V)  
 String inputs  
 Continuous operating temperature (°C)  
 Protection degree  
 Material  
 Switch disconnecter  
 Surge protection device  
 Surge protection on RS485  
 Power supply  
 Monitoring  
 Communication port  
 Communication protocol  
 Standards

8-32  
 1-2  
 ≤ 25 A  
 ≤ 1,500 V DC  
 Cable glands or WM4 C connector  
 -20 °C to +50 °C  
 IP55 or IP65 or IP66  
 GFRP  
 yes (optional)  
 Type I or Type I+II or Type II  
 yes (optional)  
 230 V AC / 24 V DC or 1,500 V DC / 24 V DC  
 yes (optional)  
 RS485  
 MODBUS/RTU  
 IEC 61439-2 ed 2.0 / EN 61439-2:2011


## WM4 C photovoltaik connector with crimp connection – Typ 4

## Technical data

	WM4 C field connector	BOX WM4 C housing connector
Continuous operating temperature	-40 °C to +85 °C	-40 °C to +85 °C
Protection class (plugged/open)	IP 65 & IP 67 / IP 2x	IP 65 & IP 67 / IP 2x
Rated current	35 A	35 A
Rated voltage	1.500V DC (IEC)	1.500V DC (IEC)
Cable diameter	4 mm <sup>2</sup> / 6 mm <sup>2</sup>	4 mm <sup>2</sup> / 6 mm <sup>2</sup>
Cable exterior diameter	5.5 ...7.0 mm	5.5 ...7.0 mm
Cable as per standard	2PG1169/08.07 & EN 50618:2014	2PG1169/08.07 & EN 50618:2014
Thread	M16	M12
Pollution degree	II	II
Approvals	TÜV (DIN EN 50521)	TÜV (DIN EN 50521)


## Ordering data

## WM4 C field connector

	Type	Qty.	Order No.
	BUGH WM4 C BT Female housing	100 (in bag)	1530690000


	Type	Qty.	Order No.
	SFGH WM4 C BT Male housing	100 (in bag)	1530700000


## BOX WM4 C housing connector

	Type	Qty.	Order No.
	BUGH BOX WM4 C BT Female housing	100 (in bag)	1530630000





	Type	Qty.	Order No.
	SFGH BOX WM4 C BT Male housing	100 (in bag)	1530640000




## Crimp contacts

	Type	Qty.	Order No.
	BUKO WM4 C BT Female contact	100 (in bag)	1530670000
	BUKO WM4 C RL Female contact	1,500 (on roll)	1530770000

	Type	Qty.	Order No.
	SFKO WM4 C BT Male contact	100 (in bag)	1530680000
	SFKO WM4 C RL Male contact	1,500 (on roll)	1530780000

## Accessories and related products

	Type	Qty.	Order No.
	VSSO WM4 C Universal dust cap for male and female housings	100	1254870000
	PVC-TV1-BK-4-1000 4 mm <sup>2</sup>	1 km	1203780000
	PVC-TV1-BK-6-1000 6 mm <sup>2</sup>	1 km	1524740000
	multi-stripax® PV Wire stripping pliers for PV wires from 2.5 mm <sup>2</sup> to 6 mm <sup>2</sup>	1	1190490000
	KT 8 Cutting tool	1	9002650000

	Type	Qty.	Order No.
	CTF PV WM4 C Crimping tool	1	1222870000
	SCREWTY SW15 optional mounting tool for WM4 C	1	1290830000
	SCREWTY SW17 optional mounting tool for BOX WM4 C	1	1254660000
	DMS MANUELL 0,5-1,7 Nm	1	9918370000
	DMS MANUELL 2,0-8,0 Nm	1	9918380000

## Cable harnessing

Individual types and cable length on request

Transclenic xi+

Transclenic 16i+ 1K5 L



Technical data

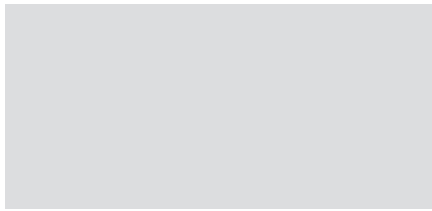
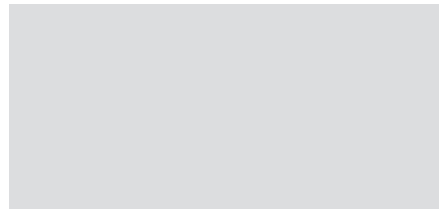
Machinery

Process

Energy

Transportation

Device Manufacturers



Technical data

Maximum number of strings	16
Max. current per string	15 A DC (-25...+70 °C), 25 A DC (-25...+60°C)
Rated voltage	1500 V DC
String-current measurement error	± 300 mA from 3 A DC to 15 A DC
String-voltage measurement error	± 18 V from 150 V DC to 1,500 V
Communication	MODBUS RS485 RTU
Number of digital inputs	2
Elevation	≤ 2000 m
Ambient temperature	-25 °C...70 °C
Supply voltage	19,2 - 28,8 V DC

Dimensions

Length x width x height	mm	368.9 / 109.5 / 92.2
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Note

Ordering data

Type	Qty.	Order No.
TRANSLINIC 16i+ 1K5 L	1 ST	2433950000

Note

Accessories

Note

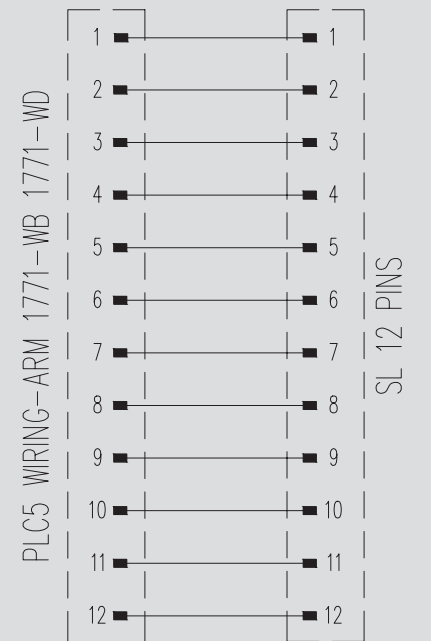


### FAD – front adapters for migrations from Rockwell PLC5

The FAD PLC5 front adapters with pre-assembled cables provide safe migration from the old PLC 5 to other PLC systems or to the u-remote system from Weidmüller.

- Clip-in foot for TS35

### FAD 1771-WA/WC/WB/WD



#### Technical data

##### Rated data

Operating voltage, max.  
Max. current per channel  
Total operating current

< 300 V AC  
2 A  
6 A

##### General data

Ambient temperature (operational)  
Storage temperature  
Approvals

-25...50 °C  
-40...60 °C  
CE

##### Insulation coordination (EN 50178)

Rated insulation voltage  
Surge voltage category  
Pollution severity level  
Insulation test voltage

< 300 V AC  
II  
2  
1.2 kVAC

#### Dimensions

Length / Width

269 mm / 32 mm

#### Note

#### Ordering data

FAD for wiring-arm WA-WC  
FAD for wiring-arm WB-WD

Type	Qty.	Order No.
FAD 1771-WA/WC BL10 M	1	2448650000
FAD 1771-WB/WD BL12 M	1	2448680000

#### Note

#### Accessories

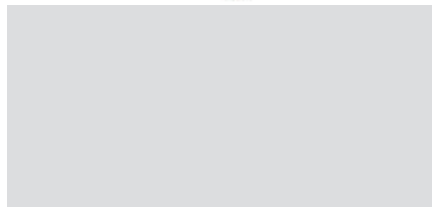
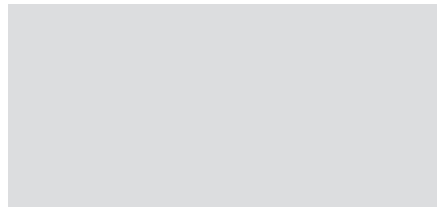
##### Note

### FAD – front adapters for migrations from Rockwell PLC5

The FAD PLC5 front adapters with pre-assembled cables provide safe migration from the old PLC 5 to other PLC systems or to the u-remote system from Weidmüller.

- Clip-in foot for TS35

### FAD 1771-WF/WG/WH



#### Technical data

##### Rated data

Operating voltage, max.  
Max. current per channel  
Total operating current

< 250 V AC  
2 A  
8 A

##### General data

Ambient temperature (operational)  
Storage temperature  
Approvals

-25...50 °C  
-40...60 °C  
CE

##### Insulation coordination (EN 50178)

Rated insulation voltage  
Surge voltage category  
Pollution severity level  
Insulation test voltage

< 250 V AC  
II  
2  
1.2 kVAC

##### Dimensions

Length / Width

269 mm / 32 mm

##### Note

#### Ordering data

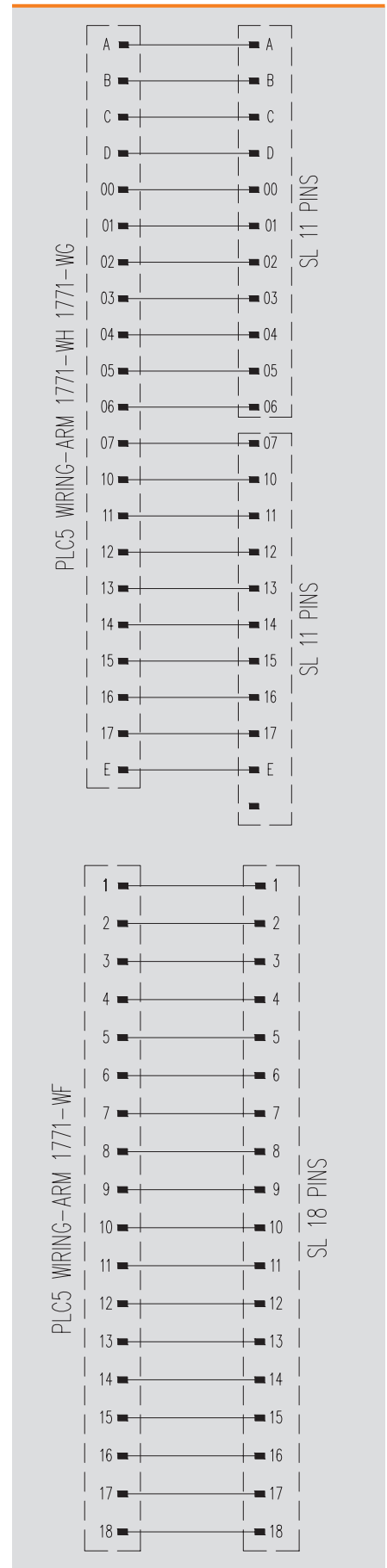
FAD for wiring-arm WH-WG  
FAD for wiring-arm WF

Type	Qty.	Order No.
FAD 1771-WH/WG BL21 M	1	2448660000
FAD 1771-WF BL18 M	1	2448690000

##### Note

#### Accessories

##### Note

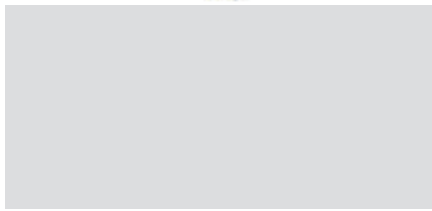
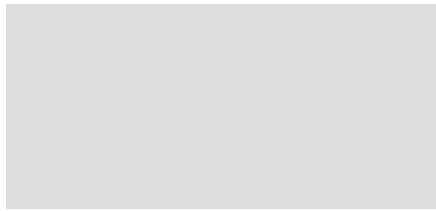


**FAD – front adapters for migrations from Rockwell PLC5**

The FAD PLC5 front adapters with pre-assembled cables provide safe migration from the old PLC 5 to other PLC systems or to the u-remote system from Weidmüller.

- Clip-in foot for TS35

**FAD 1771-WN**



**Technical data**

Rated data	
Operating voltage, max.	< 250 V AC
Max. current per channel	2 A
Total operating current	8 A
General data	
Ambient temperature (operational)	-25...50 °C
Storage temperature	-40...60 °C
Approvals	CE
Insulation coordination (EN 50178)	
Rated insulation voltage	< 250 V AC
Surge voltage category	II
Pollution severity level	2
Insulation test voltage	1.2 kVAC

< 250 V AC
2 A
8 A
-25...50 °C
-40...60 °C
CE
< 250 V AC
II
2
1.2 kVAC

Dimensions	
Length / Width	269 mm / 32 mm

269 mm / 32 mm
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Note	

**Ordering data**

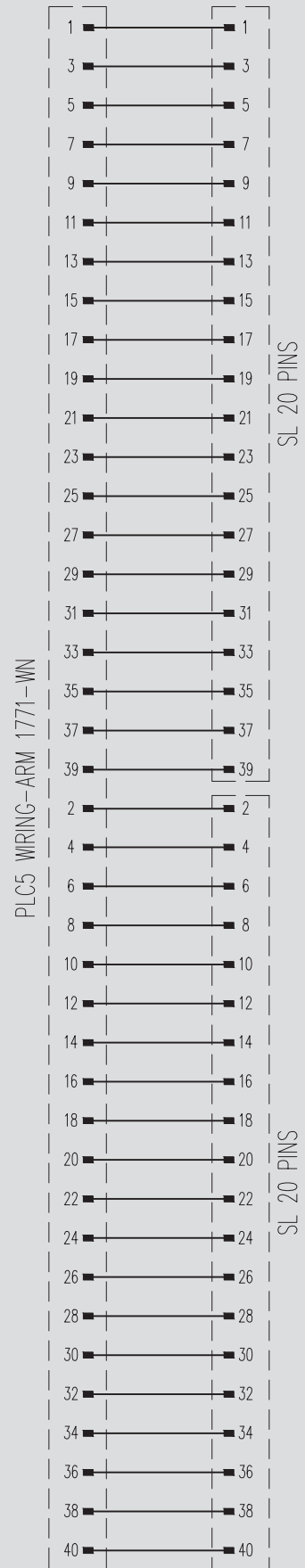
FAD for wiring-arm WN
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Type	Qty.	Order No.
FAD 1771-WN 2BL20 M	1	2448670000

Note	

**Accessories**

Note	



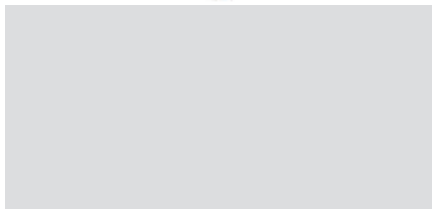
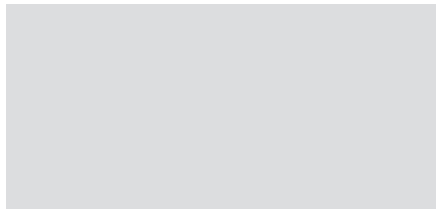




**Front panel adaptors for migrations from Honeywell IPC620**

- Feed through connections
- IPC-620 conversion to pluggable connector(s)
  - 12-, 22-point cards

**IPC620 carrier**



**Technical data**

<b>Rated data</b>
Operating voltage
Max. current per channel
<b>General data</b>
Ambient temperature (operational)
Storage temperature
Approvals

150 V
5 A
0...50 °C
0...50 °C

<b>Dimensions</b>
Length / Width / Height

266 mm / 29 mm / 61 mm
------------------------

<b>Note</b>
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**Ordering data**

12-points (Reference Honeywell TB 621-9949)
22-points (Reference Honeywell TB 621-9950)

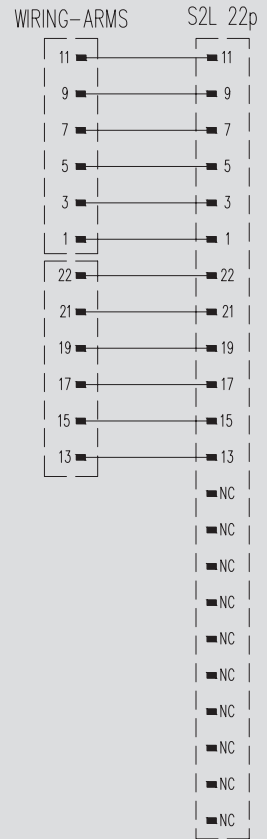
Type	Qty.	Order No.
12-point IPC-620 card adapter	1	6720000787
22-point IPC-620 card adapter	1	6720000788

<b>Note</b>
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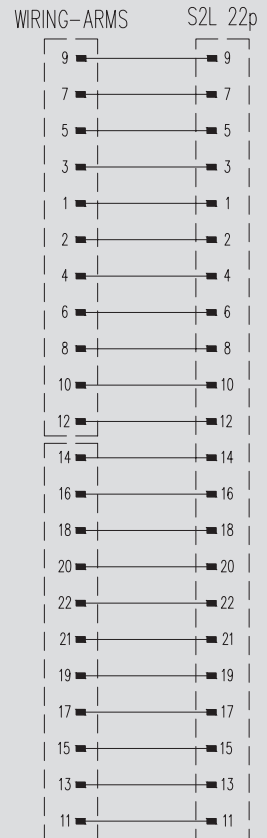
**Accessories**

<b>Note</b>
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**12-points IPC620 card adapter**



**22-points IPC620 card adapter**

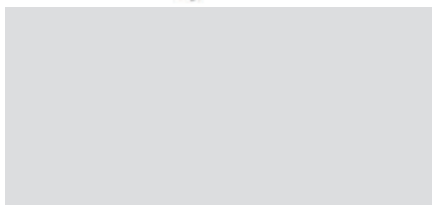
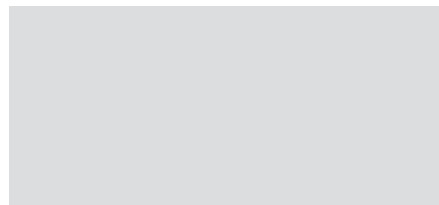


### Front panel adaptors for migrations from Honeywell IPC620

Feed through connections

- IPC-620 conversion to pluggable connector(s)
- 38-point cards

### IPC620 carrier



#### Technical data

<b>Rated data</b>
Operating voltage
Max. current per channel
<b>General data</b>
Ambient temperature (operational)
Storage temperature
Approvals

125 V
3 A
0...50 °C
0...50 °C

<b>Dimensions</b>
Length / Width / Height

266 mm / 29 mm / 126 mm
-------------------------

<b>Note</b>
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#### Ordering data

38-points (Reference Honeywell TB 621-9977 or -9976)
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Type	Qty.	Order No.
38-point IPC-620 card adapter	1	6720001225

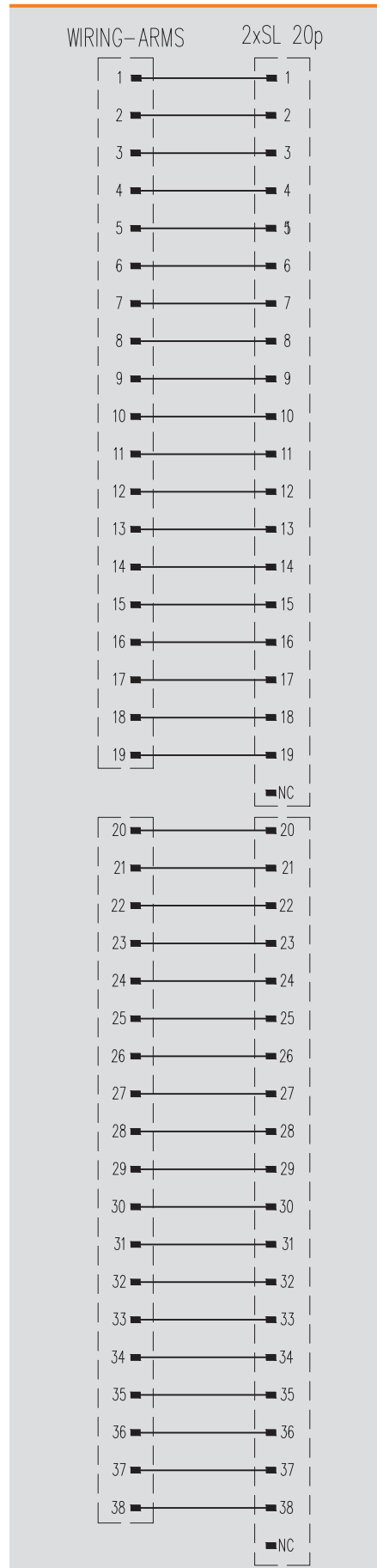
<b>Note</b>
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#### Accessories

<b>Note</b>
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- Technical data
- Machinery
- Process
- Energy
- Transportation
- Device Manufacturers

Technical data

Machinery

Process

Energy

Transportation

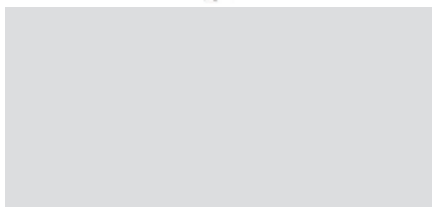
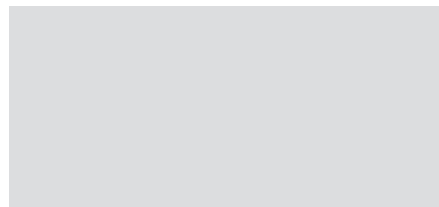
Device Manufacturers

### Front panel adaptors for migrations from Honeywell IPC620

Feed through connections

- IPC-620 conversion to pluggable connector(s)
- 24-point cards

### IPC620 carrier



#### Technical data

<b>Rated data</b>
Operating voltage
Max. current per channel
<b>General data</b>
Ambient temperature (operational)
Storage temperature
Approvals

50 V
3 A
0...50 °C
0...50 °C

<b>Dimensions</b>
Length / Width / Height

266 mm / 29 mm / 50 mm
------------------------

<b>Note</b>
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#### Ordering data

24-points (Reference Honeywell TB 621-9954)
---

Type	Qty.	Order No.
24-point IPC-620 card adapter	1	6720001226

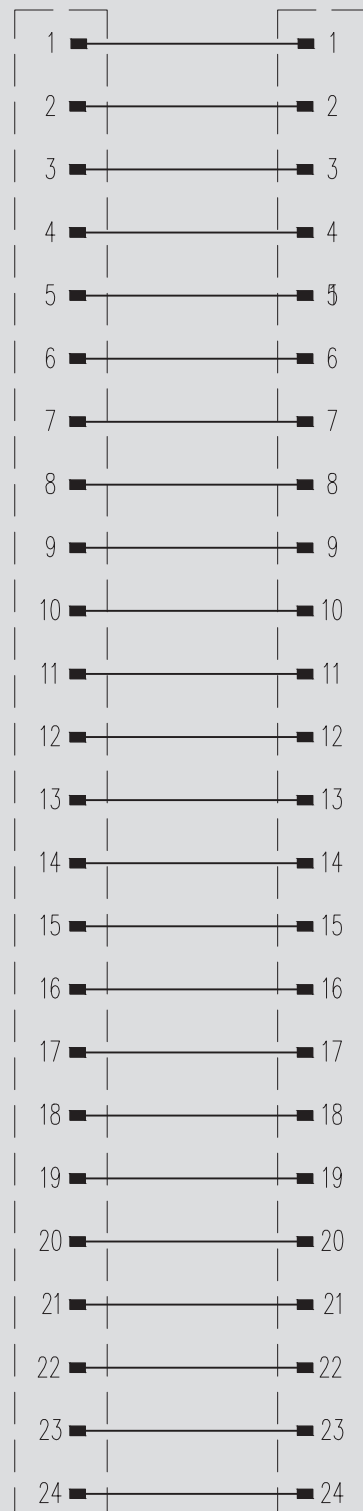
<b>Note</b>
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#### Accessories

<b>Note</b>
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WIRING-ARM

S2L 24p





**Backplane with SIL 3 relays for Yokogawa Pro-safe SDV541**

- 2 AKB connectors (50 poles) for redundancy
- Green LED shows relays switching status
- Monitorization of the Power supply status with green LED and alarm contact (24 V DC / 2...100 mA): close contact and led shinning means no supply fault.
- 2 versions with De-energized to Safe SIL relays with and without monitoring
- Screw connection

**BKP-16DO-SDV541**



**Technical data**

<b>Connected to</b>	Connection to the card
<b>Connection data and functionality</b>	Connection on control side
Relay type	SIL3
Power supply fuse	2 A
<b>Input (safety circuit)</b>	
Rated control voltage	24 V DC ± 20%
Power consumption	42 mA
Guaranteed current consumption of 24 VDC -10%	35 mA
Status indicator	LED yellow
<b>Output (safety circuit)</b>	
Base material of the contact / Contact design	AgNi 0.15 gold flashed / NO contact
max. permitted switching voltage	250 V AC / 30 V DC
max. permitted switching current	8 A
max. switching current, internal fuse	5 A (refer to derating curve)
max. switching current, external fuse	5 A (refer to derating curve)
Switching capacity min./max.	12 V / 10 mA / 2000 VA
Internal fuse	5 A time-lag
Short-circuit-proof	No
Switch-on time / Switch-off time	typ. 7 ms / typ. 14 ms
<b>General data</b>	
Ambient temperature (operational)	-25...50 °C
Storage temperature	-40...85 °C
<b>Insulation coordination (EN 50178)</b>	
Rated input insulation voltage	50 V AC / 70 V DC
Rated output insulation voltage	< 300 V AC
Overvoltage category input/output	III
Overvoltage category input/input	III
Overvoltage category output/output	III
Pollution severity level	2
Pulse voltage test (1,2/50µs)	6 kV
Insulation test voltage	1.2 kVAC
Clearance input/output	≥ 5.5 mm
<b>Dimensions</b>	
Clamping range, min./max. (field)	0.13 mm <sup>2</sup> / 2.5 mm <sup>2</sup>
Clamping range, min./max. (supply)	0.13 mm <sup>2</sup> / 6 mm <sup>2</sup>
Mounting rail	TS 35
Length x width	376 mm / 168 mm
<b>Note</b>	For more technical data about SIL relays 1303890000 and 1303760000 check catalog.weidmueller.com

**Ordering data**

	De-energized to Safe without monitoring
	De-energized to Safe with monitoring
<b>Note</b>	

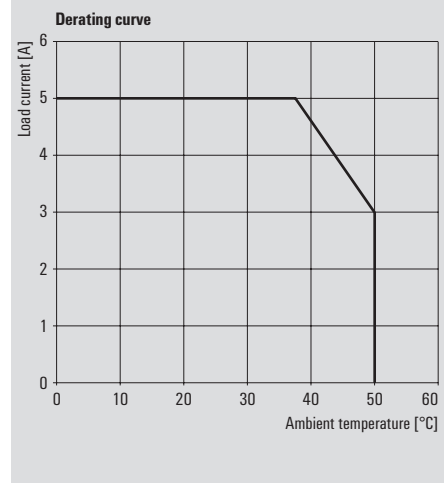
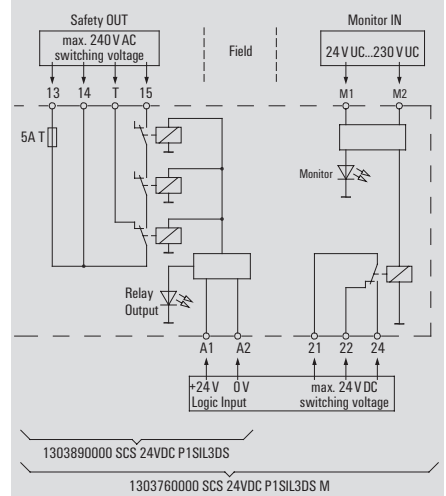
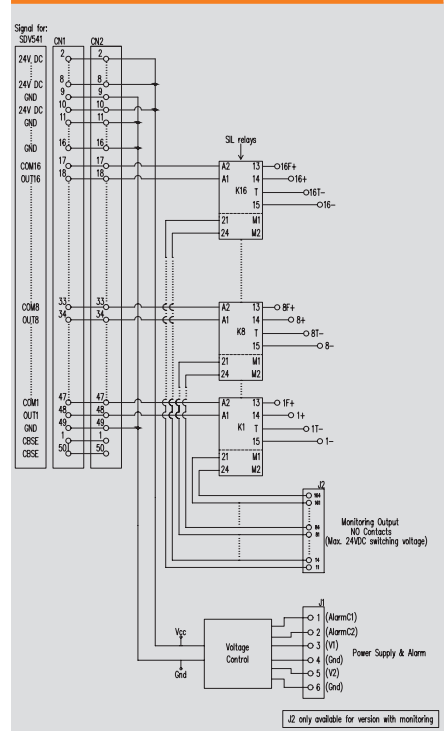
**Accessories**

	Supply fuse
	SIL relay without monitoring
	SIL relay with monitoring
	Relay (for alarm)
<b>Note</b>	

	SDV541
	2 x AKB (50P)
	SIL3
	2 A
	24 V DC ± 20%
	42 mA
	35 mA
	LED yellow
	AgNi 0.15 gold flashed / NO contact
	250 V AC / 30 V DC
	8 A
	5 A (refer to derating curve)
	5 A (refer to derating curve)
	12 V / 10 mA / 2000 VA
	5 A time-lag
	No
	typ. 7 ms / typ. 14 ms
	50 V AC / 70 V DC
	< 300 V AC
	III
	III
	III
	2
	6 kV
	1.2 kVAC
	≥ 5.5 mm
<b>Screw connection</b>	
	0.13 mm <sup>2</sup> / 2.5 mm <sup>2</sup>
	0.13 mm <sup>2</sup> / 6 mm <sup>2</sup>
	TS 35
	376 mm / 168 mm
	For more technical data about SIL relays 1303890000 and 1303760000 check catalog.weidmueller.com

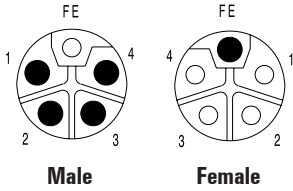
Type	Height	Order No.
BKP-16DO-SDV541-V0-S	125 mm	2461730000
BKP-16DO-SDV541-V1-S	125 mm	2436230000

Type	Qty.	Order No.
G 20/2.00A/F	10	0430900000
SCS 24VDC P1SIL3DS	1	1303890000
SCS 24VDC P1SIL3DS M	1	1303760000
RSS112024	20	4061590000





One end without connector  
M12  
L-coded

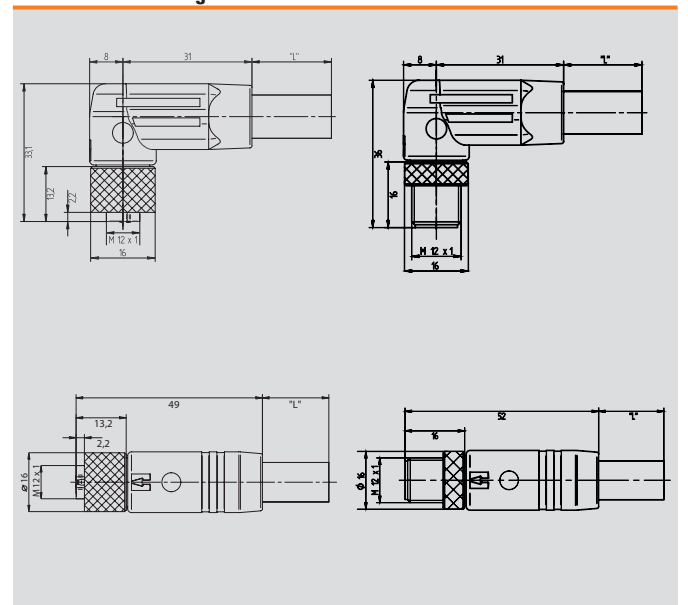


Ordering data

Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

Ordering code	Part number
SAIL-M12G-L-1.5P	2455220150
SAIL-M12G-L-3.0P	2455220300
SAIL-M12G-L-5.0P	2455220500
SAIL-M12G-L-10P	2455221000
Male, angled	
SAIL-M12W-L-1.5P	2455240150
SAIL-M12W-L-3.0P	2455240300
SAIL-M12W-L-5.0P	2455240500
SAIL-M12W-L-10P	2455241000
Female, straight	
SAIL-M12BG-L-1.5P	2455330150
SAIL-M12BG-L-3.0P	2455330300
SAIL-M12BG-L-5.0P	2455330500
SAIL-M12BG-L-10P	2455331000
Female, angled	
SAIL-M12BW-L-1.5P	2455200150
SAIL-M12BW-L-3.0P	2455200300
SAIL-M12BW-L-5.0P	2455200500
SAIL-M12BW-L-10P	2455201000

Dimensioned drawing



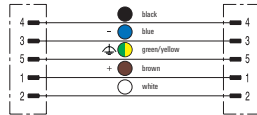
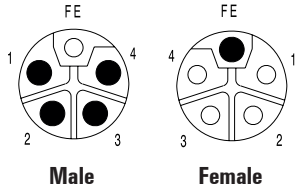
Technical data

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	50 V
Approvals	cULus





**Connecting cables**  
**M12**  
**L-coded**



**Ordering data**

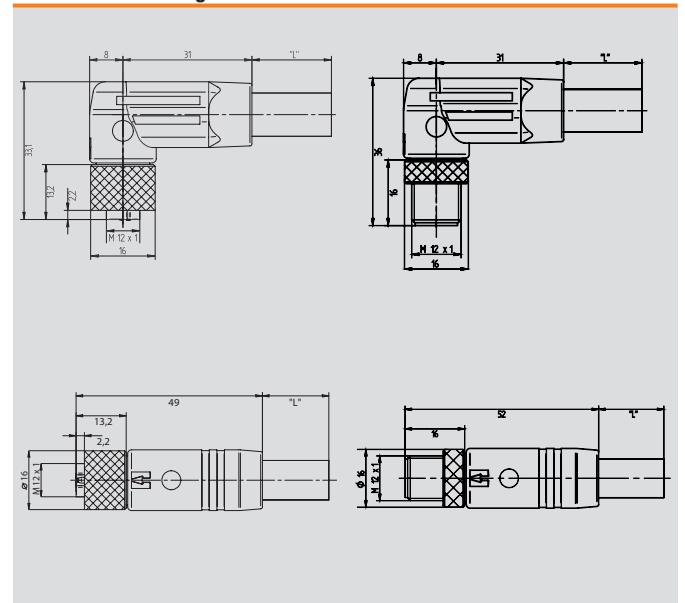
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

SAIL-M12GM12G-L-1.5P	2455260150		
SAIL-M12GM12G-L-3.0P	2455260300		
SAIL-M12GM12G-L-5.0P	2455260500		
SAIL-M12GM12G-L-10P	2455261000		
SAIL-M12GM12W-L-1.5P	2455280150		
SAIL-M12GM12W-L-3.0P	2455280300		
SAIL-M12GM12W-L-5.0P	2455280500		
SAIL-M12GM12W-L-10P	2455281000		
SAIL-M12WM12W-L-1.5P	2455300150		
SAIL-M12WM12W-L-3.0P	2455300300		
SAIL-M12WM12W-L-5.0P	2455300500		
SAIL-M12WM12W-L-10P	2455301000		
SAIL-M12WM12G-L-1.5P	2455320150		
SAIL-M12WM12G-L-3.0P	2455320300		
SAIL-M12WM12G-L-5.0P	2455320500		
SAIL-M12WM12G-L-10P	2455321000		

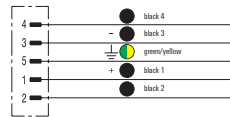
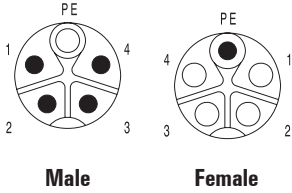
**Technical data**

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	50 V
Approvals	cULus

**Dimensioned drawing**



**One end without connector**  
**M12**  
**K-coded**

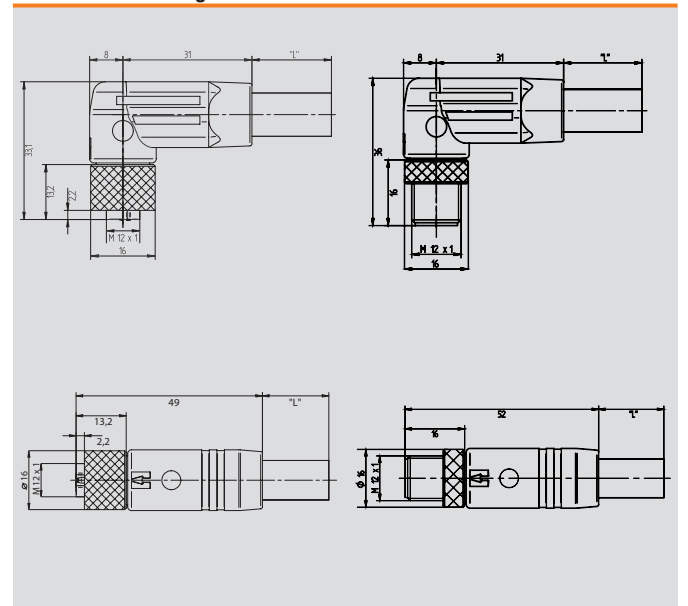


**Ordering data**

Configuration	Length	Part Number	Ordering Code
<b>Male, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12G-K-1.5P	2455210150
PUR halogen-free	3.0 m	SAIL-M12G-K-3.0P	2455210300
PUR halogen-free	5.0 m	SAIL-M12G-K-5.0P	2455210500
PUR halogen-free	10.0 m	SAIL-M12G-K-10P	2455211000
<b>Male, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12W-K-1.5P	2455230150
PUR halogen-free	3.0 m	SAIL-M12W-K-3.0P	2455230300
PUR halogen-free	5.0 m	SAIL-M12W-K-5.0P	2455230500
PUR halogen-free	10.0 m	SAIL-M12W-K-10P	2455231000
<b>Female, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12BG-K-1.5P	2455150150
PUR halogen-free	3.0 m	SAIL-M12BG-K-3.0P	2455150300
PUR halogen-free	5.0 m	SAIL-M12BG-K-5.0P	2455150500
PUR halogen-free	10.0 m	SAIL-M12BG-K-10P	2455151000
<b>Female, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12BW-K-1.5P	2455190150
PUR halogen-free	3.0 m	SAIL-M12BW-K-3.0P	2455190300
PUR halogen-free	5.0 m	SAIL-M12BW-K-5.0P	2455190500
PUR halogen-free	10.0 m	SAIL-M12BW-K-10P	2455191000
<b>Note</b>			

Configuration	Length	Part Number	Ordering Code
<b>Male, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12G-K-1.5P	2455210150
PUR halogen-free	3.0 m	SAIL-M12G-K-3.0P	2455210300
PUR halogen-free	5.0 m	SAIL-M12G-K-5.0P	2455210500
PUR halogen-free	10.0 m	SAIL-M12G-K-10P	2455211000
<b>Male, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12W-K-1.5P	2455230150
PUR halogen-free	3.0 m	SAIL-M12W-K-3.0P	2455230300
PUR halogen-free	5.0 m	SAIL-M12W-K-5.0P	2455230500
PUR halogen-free	10.0 m	SAIL-M12W-K-10P	2455231000
<b>Female, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12BG-K-1.5P	2455150150
PUR halogen-free	3.0 m	SAIL-M12BG-K-3.0P	2455150300
PUR halogen-free	5.0 m	SAIL-M12BG-K-5.0P	2455150500
PUR halogen-free	10.0 m	SAIL-M12BG-K-10P	2455151000
<b>Female, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12BW-K-1.5P	2455190150
PUR halogen-free	3.0 m	SAIL-M12BW-K-3.0P	2455190300
PUR halogen-free	5.0 m	SAIL-M12BW-K-5.0P	2455190500
PUR halogen-free	10.0 m	SAIL-M12BW-K-10P	2455191000
<b>Note</b>			

**Dimensioned drawing**

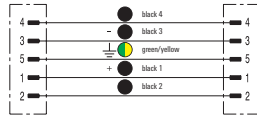
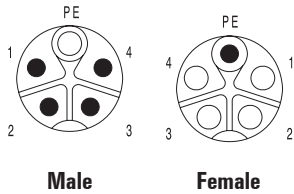


**Technical data**

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	600 V
Approvals	cULus



**Connecting cables**  
**M12**  
**K-coded**



**Ordering data**

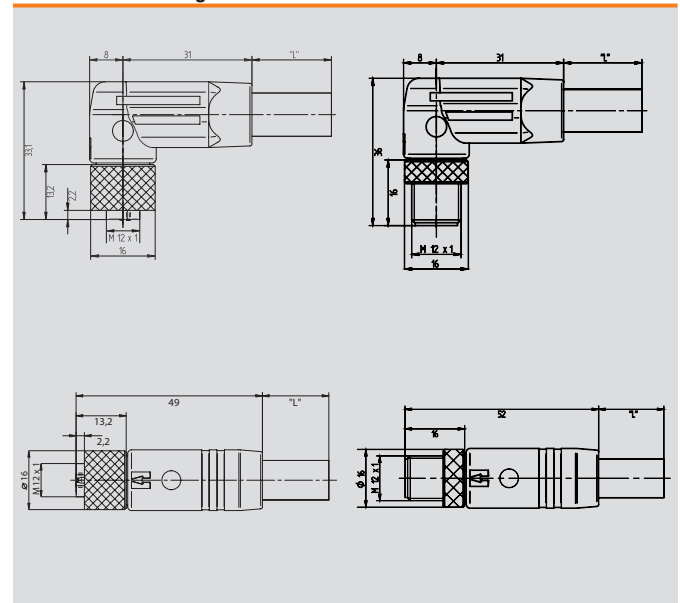
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

SAIL-M12GM12G-K-1.5P	2455250150
SAIL-M12GM12G-K-3.0P	2455250300
SAIL-M12GM12G-K-5.0P	2455250500
SAIL-M12GM12G-K-10P	2455251000
Male, straight - Female, angled	
SAIL-M12GM12W-K-1.5P	2455270150
SAIL-M12GM12W-K-3.0P	2455270300
SAIL-M12GM12W-K-5.0P	2455270500
SAIL-M12GM12W-K-10P	2455271000
Male, angled - Female, angled	
SAIL-M12WM12W-K-1.5P	2455290150
SAIL-M12WM12W-K-3.0P	2455290300
SAIL-M12WM12W-K-5.0P	2455290500
SAIL-M12WM12W-K-10P	2455291000
Male, angled - female, straight	
SAIL-M12WM12G-K-1.5P	2455310150
SAIL-M12WM12G-K-3.0P	2455310300
SAIL-M12WM12G-K-5.0P	2455310500
SAIL-M12WM12G-K-10P	2455311000

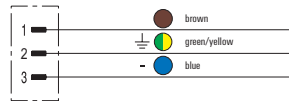
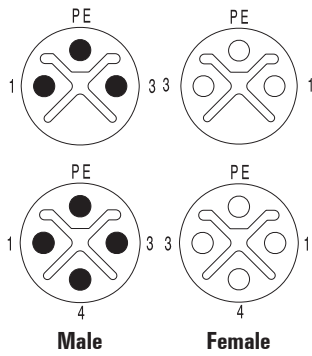
**Technical data**

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	600 V
Approvals	cULus

**Dimensioned drawing**



One end without connector  
M12  
S-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

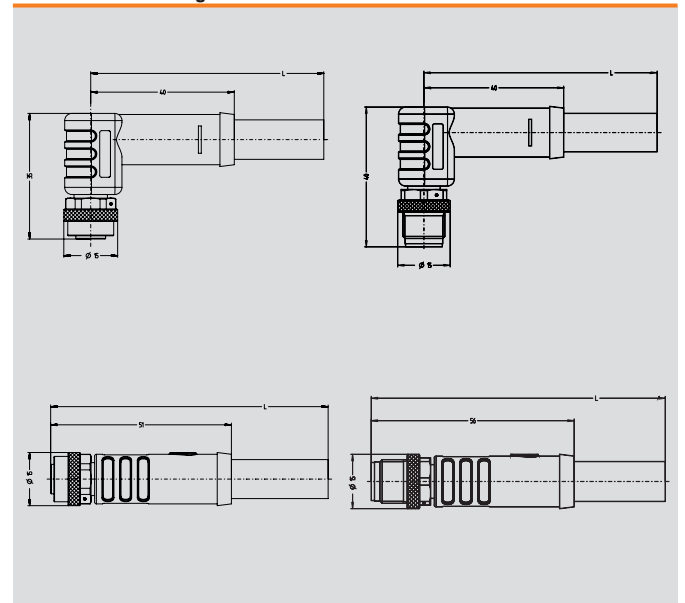
3-pole	
SAIL-M12G-S3-1.5P	2050020150
SAIL-M12G-S3-3.0P	2050020300
SAIL-M12G-S3-5.0P	2050020500
SAIL-M12G-S3-10P	2050021000
SAIL-M12W-S3-1.5P	2050050150
SAIL-M12W-S3-3.0P	2050050300
SAIL-M12W-S3-5.0P	2050050500
SAIL-M12W-S3-10P	2050051000
SAIL-M12BG-S3-1.5P	2049950150
SAIL-M12BG-S3-3.0P	2049950300
SAIL-M12BG-S3-5.0P	2049950500
SAIL-M12BG-S3-10P	2049951000
SAIL-M12BW-S3-1.5P	2050010150
SAIL-M12BW-S3-3.0P	2050010300
SAIL-M12BW-S3-5.0P	2050010500
SAIL-M12BW-S3-10P	2050011000

4-pole	
SAIL-M12G-S-1.5P	2050230150
SAIL-M12G-S-3.0P	2050230300
SAIL-M12G-S-5.0P	2050230500
SAIL-M12G-S-10P	2050231000
SAIL-M12W-S-1.5P	2050260150
SAIL-M12W-S-3.0P	2050260300
SAIL-M12W-S-5.0P	2050260500
SAIL-M12W-S-10P	2050261000
SAIL-M12BG-S-1.5P	2050160150
SAIL-M12BG-S-3.0P	2050160300
SAIL-M12BG-S-5.0P	2050160500
SAIL-M12BG-S-10P	2050161000
SAIL-M12BW-S-1.5P	2050210150
SAIL-M12BW-S-3.0P	2050210300
SAIL-M12BW-S-5.0P	2050210500
SAIL-M12BW-S-10P	2050211000

Technical data

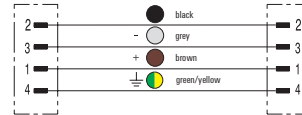
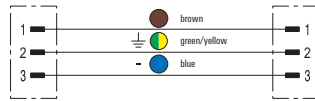
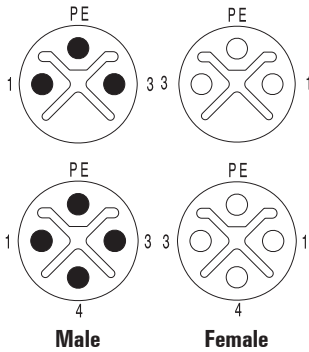
Rated current	12 A
Protection degree	IP67, IP69, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	600 V
Approvals	

Dimensioned drawing





**Connecting cables**  
**M12**  
**S-coded**



**Ordering data**

Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

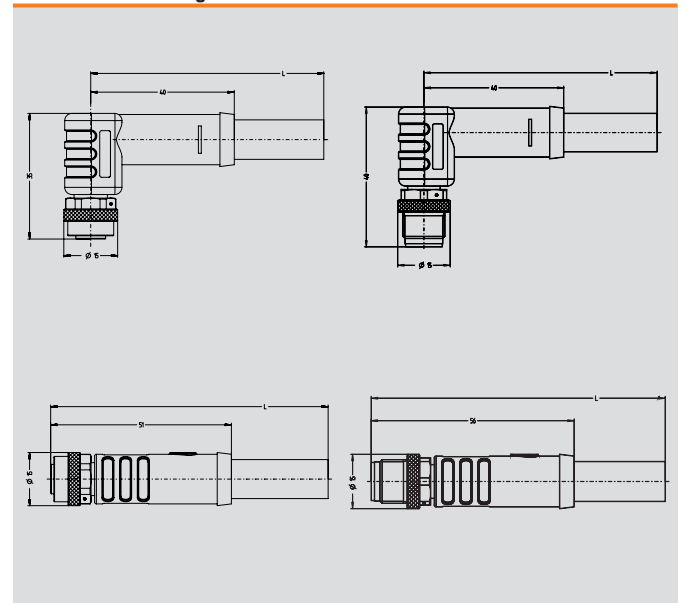
3-pole	
SAIL-M12GM12G-S3-1.5P	2050060150
SAIL-M12GM12G-S3-3.0P	2050060300
SAIL-M12GM12G-S3-5.0P	2050060500
SAIL-M12GM12G-S3-10P	2050061000
3-pole	
SAIL-M12GM12W-S3-1.5P	2050100150
SAIL-M12GM12W-S3-3.0P	2050100300
SAIL-M12GM12W-S3-5.0P	2050100500
SAIL-M12GM12W-S3-10P	2050101000
3-pole	
SAIL-M12WM12W-S3-1.5P	2050150150
SAIL-M12WM12W-S3-3.0P	2050150300
SAIL-M12WM12W-S3-5.0P	2050150500
SAIL-M12WM12W-S3-10P	2050151000
3-pole	
SAIL-M12WM12G-S3-1.5P	2050080150
SAIL-M12WM12G-S3-3.0P	2050080300
SAIL-M12WM12G-S3-5.0P	2050080500
SAIL-M12WM12G-S3-10P	2050081000

4-pole	
SAIL-M12GM12G-S-1.5P	2050270150
SAIL-M12GM12G-S-3.0P	2050270300
SAIL-M12GM12G-S-5.0P	2050270500
SAIL-M12GM12G-S-10P	2050271000
4-pole	
SAIL-M12GM12W-S-1.5P	2050460150
SAIL-M12GM12W-S-3.0P	2050460300
SAIL-M12GM12W-S-5.0P	2050460500
SAIL-M12GM12W-S-10P	2050461000
4-pole	
SAIL-M12WM12W-S-1.5P	2050470150
SAIL-M12WM12W-S-3.0P	2050470300
SAIL-M12WM12W-S-5.0P	2050470500
SAIL-M12WM12W-S-10P	2050471000
4-pole	
SAIL-M12WM12G-S-1.5P	2050350150
SAIL-M12WM12G-S-3.0P	2050350300
SAIL-M12WM12G-S-5.0P	2050350500
SAIL-M12WM12G-S-10P	2050351000

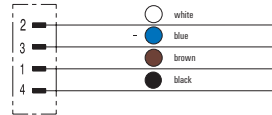
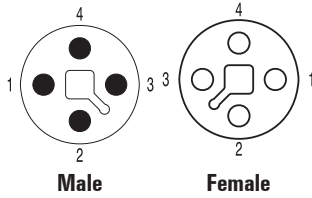
**Technical data**

Rated current	12 A
Protection degree	IP67, IP69, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	600 V
Approvals	

**Dimensioned drawing**



One end without connector  
M12  
T-coded



Ordering data

		1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
<b>Male, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12G-T-1.5P	2050640150
PUR halogen-free	3.0 m	SAIL-M12G-T-3.0P	2050640300
PUR halogen-free	5.0 m	SAIL-M12G-T-5.0P	2050640500
PUR halogen-free	10.0 m	SAIL-M12G-T-10P	2050641000
<b>Male, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12W-T-1.5P	2050650150
PUR halogen-free	3.0 m	SAIL-M12W-T-3.0P	2050650300
PUR halogen-free	5.0 m	SAIL-M12W-T-5.0P	2050650500
PUR halogen-free	10.0 m	SAIL-M12W-T-10P	2050651000
<b>Female, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12BG-T-1.5P	2050490150
PUR halogen-free	3.0 m	SAIL-M12BG-T-3.0P	2050490300
PUR halogen-free	5.0 m	SAIL-M12BG-T-5.0P	2050490500
PUR halogen-free	10.0 m	SAIL-M12BG-T-10P	2050491000
<b>Female, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12BW-T-1.5P	2050560150
PUR halogen-free	3.0 m	SAIL-M12BW-T-3.0P	2050560300
PUR halogen-free	5.0 m	SAIL-M12BW-T-5.0P	2050560500
PUR halogen-free	10.0 m	SAIL-M12BW-T-10P	2050561000
<b>Note</b>			

		1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
<b>Male, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12G-T-1.5P	2050640150
PUR halogen-free	3.0 m	SAIL-M12G-T-3.0P	2050640300
PUR halogen-free	5.0 m	SAIL-M12G-T-5.0P	2050640500
PUR halogen-free	10.0 m	SAIL-M12G-T-10P	2050641000
<b>Male, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12W-T-1.5P	2050650150
PUR halogen-free	3.0 m	SAIL-M12W-T-3.0P	2050650300
PUR halogen-free	5.0 m	SAIL-M12W-T-5.0P	2050650500
PUR halogen-free	10.0 m	SAIL-M12W-T-10P	2050651000
<b>Female, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12BG-T-1.5P	2050490150
PUR halogen-free	3.0 m	SAIL-M12BG-T-3.0P	2050490300
PUR halogen-free	5.0 m	SAIL-M12BG-T-5.0P	2050490500
PUR halogen-free	10.0 m	SAIL-M12BG-T-10P	2050491000
<b>Female, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12BW-T-1.5P	2050560150
PUR halogen-free	3.0 m	SAIL-M12BW-T-3.0P	2050560300
PUR halogen-free	5.0 m	SAIL-M12BW-T-5.0P	2050560500
PUR halogen-free	10.0 m	SAIL-M12BW-T-10P	2050561000
<b>Note</b>			

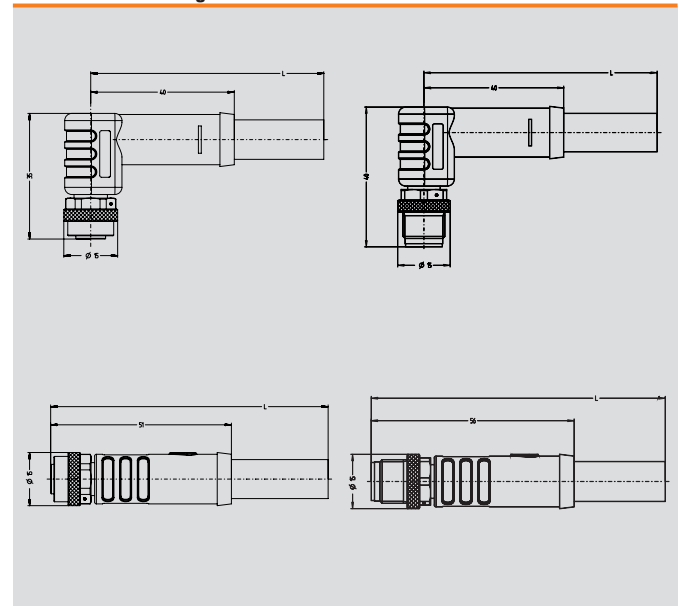
		1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
<b>Male, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12G-T-1.5H	2050700150
PUR halogen-free	3.0 m	SAIL-M12G-T-3.0H	2050700300
PUR halogen-free	5.0 m	SAIL-M12G-T-5.0H	2050700500
PUR halogen-free	10.0 m	SAIL-M12G-T-10H	2050701000
<b>Male, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12W-T-1.5H	2050710150
PUR halogen-free	3.0 m	SAIL-M12W-T-3.0H	2050710300
PUR halogen-free	5.0 m	SAIL-M12W-T-5.0H	2050710500
PUR halogen-free	10.0 m	SAIL-M12W-T-10H	2050711000
<b>Female, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12BG-T-1.5H	2050680150
PUR halogen-free	3.0 m	SAIL-M12BG-T-3.0H	2050680300
PUR halogen-free	5.0 m	SAIL-M12BG-T-5.0H	2050680500
PUR halogen-free	10.0 m	SAIL-M12BG-T-10H	2050681000
<b>Female, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12BW-T-1.5H	2050690150
PUR halogen-free	3.0 m	SAIL-M12BW-T-3.0H	2050690300
PUR halogen-free	5.0 m	SAIL-M12BW-T-5.0H	2050690500
PUR halogen-free	10.0 m	SAIL-M12BW-T-10H	2050691000
<b>Note</b>			

		1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
<b>Male, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12G-T-1.5H	2050700150
PUR halogen-free	3.0 m	SAIL-M12G-T-3.0H	2050700300
PUR halogen-free	5.0 m	SAIL-M12G-T-5.0H	2050700500
PUR halogen-free	10.0 m	SAIL-M12G-T-10H	2050701000
<b>Male, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12W-T-1.5H	2050710150
PUR halogen-free	3.0 m	SAIL-M12W-T-3.0H	2050710300
PUR halogen-free	5.0 m	SAIL-M12W-T-5.0H	2050710500
PUR halogen-free	10.0 m	SAIL-M12W-T-10H	2050711000
<b>Female, straight</b>			
PUR halogen-free	1.5 m	SAIL-M12BG-T-1.5H	2050680150
PUR halogen-free	3.0 m	SAIL-M12BG-T-3.0H	2050680300
PUR halogen-free	5.0 m	SAIL-M12BG-T-5.0H	2050680500
PUR halogen-free	10.0 m	SAIL-M12BG-T-10H	2050681000
<b>Female, angled</b>			
PUR halogen-free	1.5 m	SAIL-M12BW-T-1.5H	2050690150
PUR halogen-free	3.0 m	SAIL-M12BW-T-3.0H	2050690300
PUR halogen-free	5.0 m	SAIL-M12BW-T-5.0H	2050690500
PUR halogen-free	10.0 m	SAIL-M12BW-T-10H	2050691000
<b>Note</b>			

Technical data

Rated current	12 A
Protection degree	IP67, IP69, when screwed in
Core cross-section	1.5 mm
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	63 V
Approvals	

Dimensioned drawing

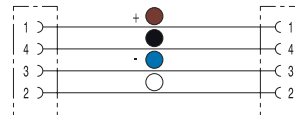
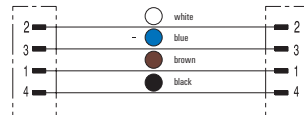
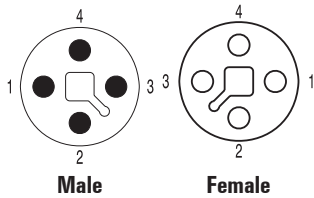




Connecting cables

M12

T-coded



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

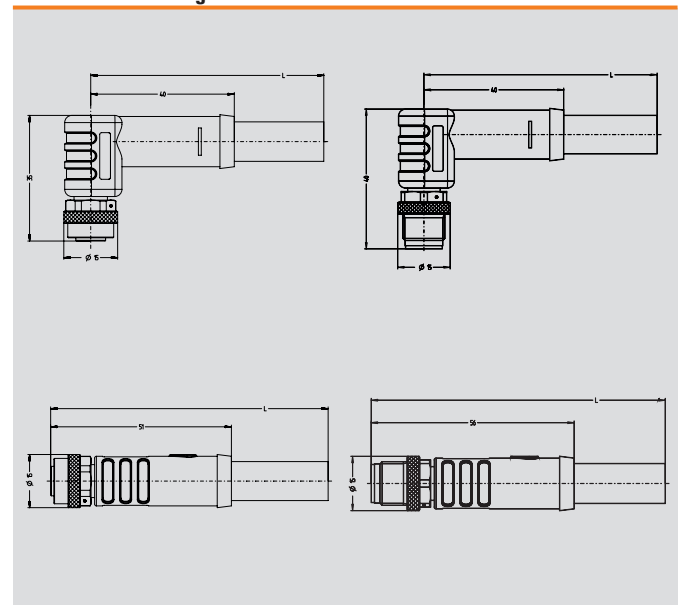
1.5 mm <sup>2</sup>	
SAIL-M12GM12G-T-1.5P	2050760150
SAIL-M12GM12G-T-3.0P	2050760300
SAIL-M12GM12G-T-5.0P	2050760500
SAIL-M12GM12G-T-10P	2050761000
1.5 mm <sup>2</sup>	
SAIL-M12GM12W-T-1.5P	2050830150
SAIL-M12GM12W-T-3.0P	2050830300
SAIL-M12GM12W-T-5.0P	2050830500
SAIL-M12GM12W-T-10P	2050831000
1.5 mm <sup>2</sup>	
SAIL-M12WM12W-T-1.5P	2050860150
SAIL-M12WM12W-T-3.0P	2050860300
SAIL-M12WM12W-T-5.0P	2050860500
SAIL-M12WM12W-T-10P	2050861000
1.5 mm <sup>2</sup>	
SAIL-M12WM12G-T-1.5P	2050820150
SAIL-M12WM12G-T-3.0P	2050820300
SAIL-M12WM12G-T-5.0P	2050820500
SAIL-M12WM12G-T-10P	2050821000

2.5 mm <sup>2</sup>	
SAIL-M12GM12G-T-1.5H	2050870150
SAIL-M12GM12G-T-3.0H	2050870300
SAIL-M12GM12G-T-5.0H	2050870500
SAIL-M12GM12G-T-10H	2050871000
2.5 mm <sup>2</sup>	
SAIL-M12GM12W-T-1.5H	2050910150
SAIL-M12GM12W-T-3.0H	2050910300
SAIL-M12GM12W-T-5.0H	2050910500
SAIL-M12GM12W-T-10H	2050911000
2.5 mm <sup>2</sup>	
SAIL-M12WM12W-T-1.5H	2050920150
SAIL-M12WM12W-T-3.0H	2050920300
SAIL-M12WM12W-T-5.0H	2050920500
SAIL-M12WM12W-T-10H	2050921000
2.5 mm <sup>2</sup>	
SAIL-M12WM12G-T-1.5H	2050890150
SAIL-M12WM12G-T-3.0H	2050890300
SAIL-M12WM12G-T-5.0H	2050890500
SAIL-M12WM12G-T-10H	2050891000

Technical data

Rated current	12 A
Protection degree	IP67, IP69, when screwed in
Core cross-section	1.5 mm
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	63 V
Approvals	

Dimensioned drawing



Technical data

Machinery

Process

Energy

Transportation

Device  
Manufacturers

### Size 3

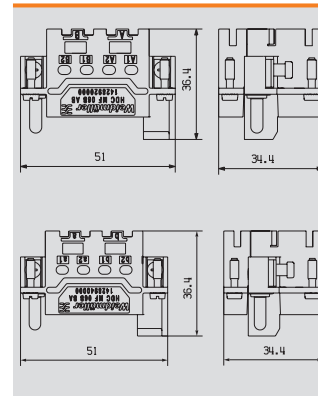
#### ModuPlug® metal frame

##### Frame



Deployment	Type	Order No.
	HDC MF 6B AB	1428920000
	HDC MF 6B BA	1428940000

**Note** 2 module slots; double-sided PE screw connection: 0.5 - 10 mm<sup>2</sup> (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



##### Transport lock



Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000

### Size 4

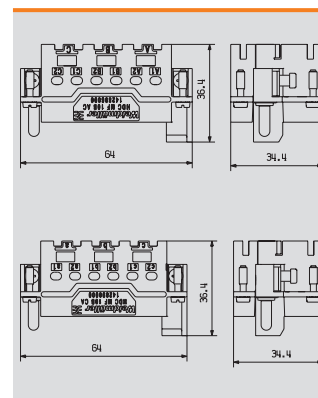
#### ModuPlug® metal frame

##### Frame



Deployment	Type	Order No.
	HDC MF 10B AC	1428960000
	HDC MF 10B CA	1428980000

**Note** 3 module slots; double-sided PE screw connection: 0.5 - 10 mm<sup>2</sup> (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



##### Transport lock



Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000



Size 6

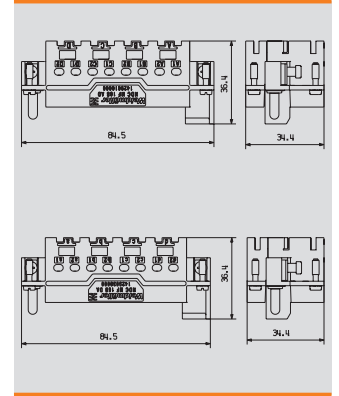
ModuPlug® metal frame

Frame



Deployment	Type	Order No.
	HDC MF 16B AD	1429010000
	HDC MF 16B DA	1429030000

**Note** 4 module slots; double-sided PE screw connection: 0.5 - 10 mm<sup>2</sup> (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000

Size 8

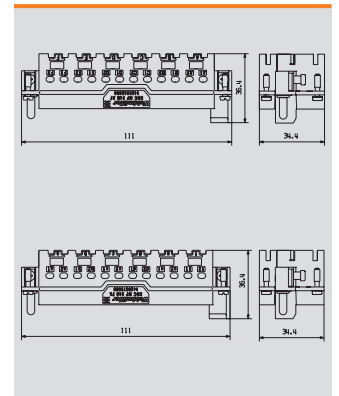
ModuPlug® metal frame

Frame



Deployment	Type	Order No.
	HDC MF 24B AF	1429050000
	HDC MF 24B FA	1429070000

**Note** 6 module slots; double-sided PE screw connection: 0.5 - 10 mm<sup>2</sup> (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

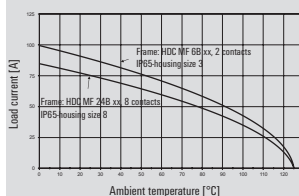
## ModuPlug® HDC MHP 100

### Technical data

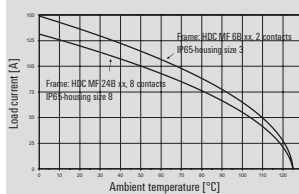
Contact inserts	
No. of poles	2
Rated current (DIN EN 61984)	100 A
Rated voltage (DIN EN 61984)	1000 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1.5

#### Note

HDC-MHP100-modules in the IP65-housing,  
Conductor H07V-K10:



HDC-MHP100-modules in the IP65-housing,  
Conductor H07V-K35:

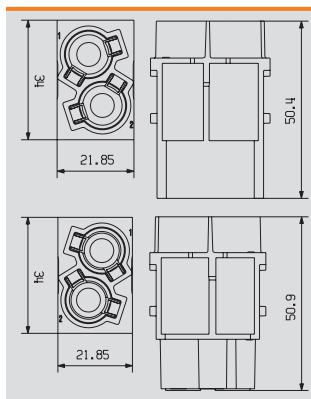


### Crimp connection



Deployment	Type	Order No.
Male	HDC MHP 100 MC	1429060000
Female	HDC MHP 100 FC	1429080000

#### Note



### Accessories

#### Crimp contacts

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
10	HDC MHP100 M 10	1435750000	HDC MHP100 F 10	1435790000	
10	HDC MHP100 M 16	1435760000	HDC MHP100 F 16	1435810000	
10	HDC MHP100 M 25	1435770000	HDC MHP100 F 25	1435820000	
10	HDC MHP100 M 35	1435780000	HDC MHP100 F 35	1435830000	

#### Tools



<b>Crimping tool</b>	
MTR 110	9018020000
<b>Contact Removal Tool</b>	
HDC MHP REMOVAL TOOL	1480380000
<b>Note</b>	Overview of the crimping inserts in chapter J

**ModuPlug®**  
**HDC MHX 4P**

**Technical data**

Contact inserts	
No. of poles	4
Rated current (DIN EN 61984)	40 A
Rated voltage (DIN EN 61984)	830 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

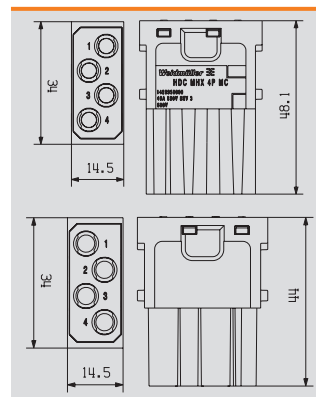
**Note**

**Crimp connection**



Deployment	Type	Order No.
Male	HDC MHX 4P MC	1428950000
Female	HDC MHX 4P FC	1428970000

**Note**



**Accessories**

**Crimp contacts**

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
25	HDC C HX SM1.5AG	1002910000	HDC C HX BM1.5AG	1002950000	1002950000
25	HDC C HX SM2.5AG	1002920000	HDC C HX BM2.5AG	1002960000	1002960000
25	HDC C HX SM4.0AG	1002930000	HDC C HX BM4.0AG	1002970000	1002970000
25	HDC C HX SM6.0AG	1002940000	HDC C HX BM6.0AG	1002980000	1002980000

**Tools**



<b>Crimping tool</b>	
CTIN CM 1.6/2.5	9205430000
<b>Contact Removal Tool</b>	
Removal Tool HX	1002990000
<b>Note</b>	

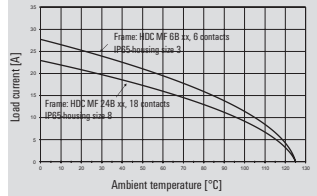
**ModuPlug®**  
**HDC MHX 3**

**Technical data**

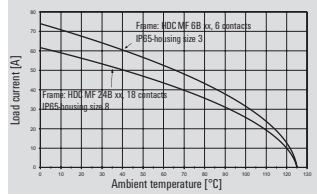
Contact inserts	
No. of poles	3
Rated current (DIN EN 61984)	40 A
Rated voltage (DIN EN 61984)	690 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

**Note**

**HDC-MHX 3-modules in the IP65-housing, Conductor H07V-K1.5:**



**HDC-MHX 3-modules in the IP65-housing, Conductor H07V-K10:**

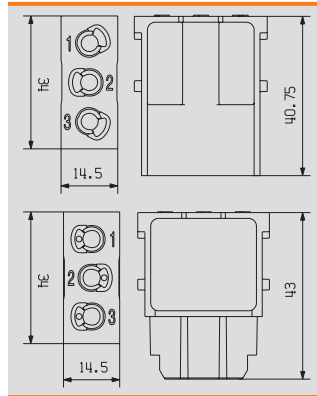


**Crimp connection**



Deployment	Type	Order No.
Male	HDC MHX 3 MC	1429340000
Female	HDC MHX 3 FC	1429350000

**Note**



**Accessories**

**Crimp contacts**

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
25	HDC C HX SM1.5AG	1002910000	HDC C HX BM1.5AG	1002950000	1002950000
25	HDC C HX SM2.5AG	1002920000	HDC C HX BM2.5AG	1002960000	1002960000
25	HDC C HX SM4.0AG	1002930000	HDC C HX BM4.0AG	1002970000	1002970000
25	HDC C HX SM6.0AG	1002940000	HDC C HX BM6.0AG	1002980000	1002980000
25	HDC C MHX SM10.0AG	2494550000	HDC C MHX BM10.0AG	2494560000	2494560000

**Tools**



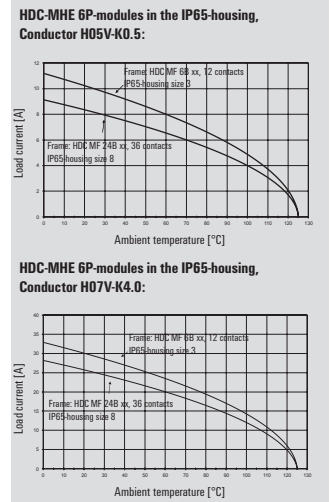
Crimping tool	
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HX	1002990000
Note	

**ModuPlug®**  
**HDC MHE 6P**

**Technical data**

Contact inserts	
No. of poles	6
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	830 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

**Note**

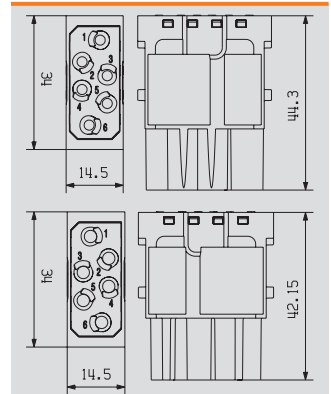


**Crimp connection**



Deployment	Type	Order No.
Male	HDC MHE 6P MC	1505650000
Female	HDC MHE 6P FC	1505660000

**Note**



**Accessories**

**Crimp contacts**

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	1651470000
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	1651480000	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	1651510000
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	1116530000
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	1201100000
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	1201200000	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000	1201500000

Conductor cross-section	Insulation stripping length
0.50 mm <sup>2</sup>	AWG 20 7.5 mm
0.75 - 1.00 mm <sup>2</sup>	AWG 18 7.5 mm
1.50 mm <sup>2</sup>	AWG 16 7.5 mm
2.50 mm <sup>2</sup>	AWG 14 7.5 mm
4.00 mm <sup>2</sup>	AWG 12 7.5 mm

**Tools**



Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000

Contact Removal Tool	
Removal Tool HE	1866750000

**Note**

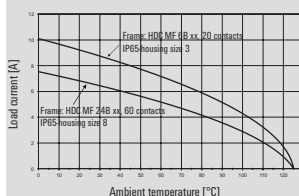
**ModuPlug®**  
**HDC MHE 20**

**Technical data**

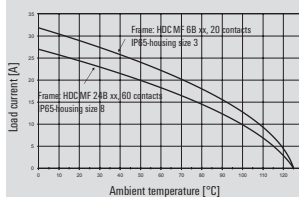
Contact inserts	
No. of poles	20
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	500 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	2

**Note**

**HDC-MHE 20-modules in the IP65-housing, Conductor H05V-K0.5:**



**HDC-MHE 20-modules in the IP65-housing, Conductor H07V-K4.0:**

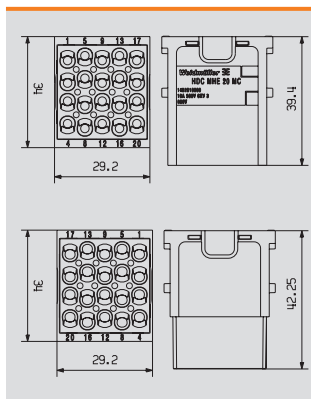


**Crimp connection**



Deployment	Type	Order No.
Male	HDC MHE 20 MC	1428910000
Female	HDC MHE 20 FC	1428930000

**Note**



**Accessories**

**Crimp contacts**

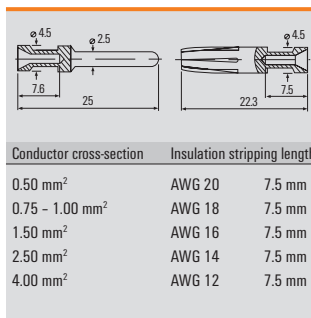
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	1651470000
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	1651480000	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	1651510000
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	1116530000
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	1201100000
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	1201200000	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000	1201500000



**Tools**



Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000

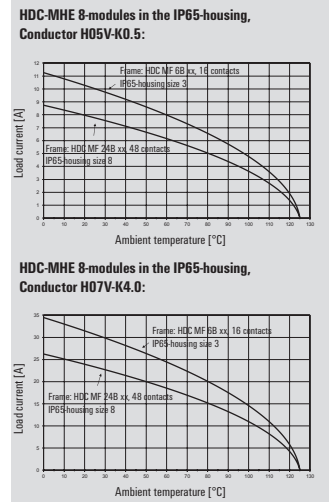
**Note**

**ModuPlug®**  
**HDC MHE 8**

**Technical data**

Contact inserts	
No. of poles	8
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	400 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

**Note**

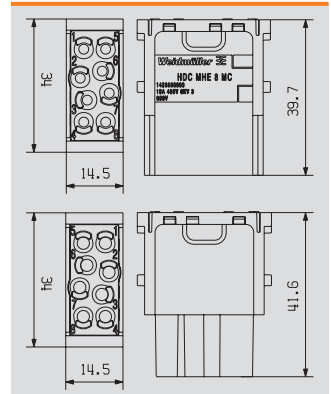


**Crimp connection**



Deployment	Type	Order No.
Male	HDC MHE 8 MC	1428880000
Female	HDC MHE 8 FC	1428890000

**Note**



**Accessories**

**Crimp contacts**

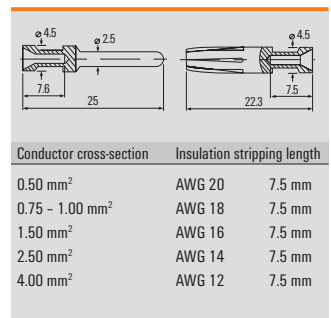
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	1651470000
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	1651480000	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	1651510000
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	1116530000
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	1201100000
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	1201200000	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000	1201500000



**Tools**



Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000

Contact Removal Tool	
Removal Tool HE	1866750000

**Note**

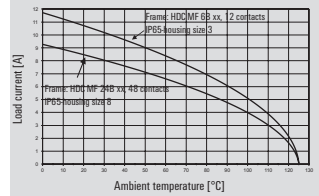
## ModuPlug® HDC MHE 6

### Technical data

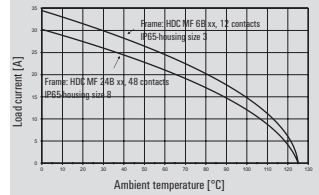
Contact inserts	
No. of poles	6
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	500 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

#### Note

HDC-MHE 6-modules in the IP65-housing,  
Conductor H05V-K0.5:



HDC-MHE 6-modules in the IP65-housing,  
Conductor H07V-K4.0:

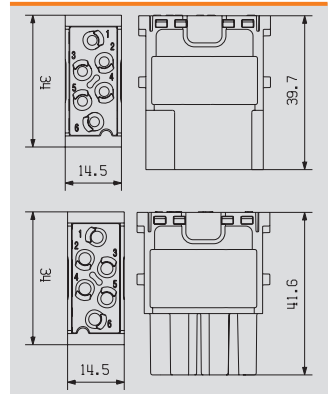


### Crimp connection



Deployment	Type	Order No.
Male	HDC MHE 6 MC	1429360000
Female	HDC MHE 6 FC	1429370000

#### Note



### Accessories

#### Crimp contacts

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	1651470000
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	1651480000	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	1651510000
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	1116530000
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	1201100000
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	1201200000	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000	1201500000



Conductor cross-section	Insulation stripping length
0.50 mm <sup>2</sup>	AWG 20 7.5 mm
0.75 - 1.00 mm <sup>2</sup>	AWG 18 7.5 mm
1.50 mm <sup>2</sup>	AWG 16 7.5 mm
2.50 mm <sup>2</sup>	AWG 14 7.5 mm
4.00 mm <sup>2</sup>	AWG 12 7.5 mm

#### Tools



Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000

#### Note

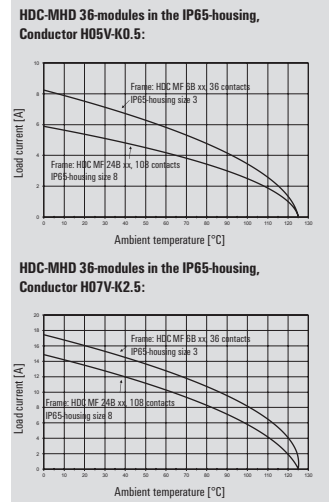


**ModuPlug®**  
**HDC MHD 36**

**Technical data**

Contact inserts	
No. of poles	36
Rated current (DIN EN 61984)	10 A
Rated voltage (DIN EN 61984)	250 V
Rated impulse voltage (DIN EN 61984)	4 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	2

**Note**



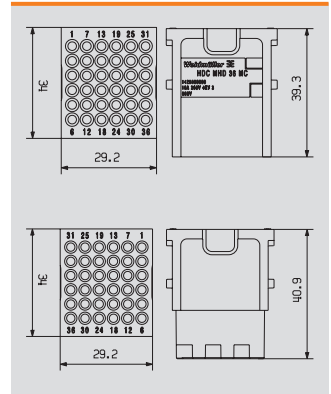
**Modules**

**Crimp connection**



Deployment	Type	Order No.
Male	HDC MHD 36 MC	1428860000
Female	HDC MHD 36 FC	1428870000

**Note**



**Accessories**

**Crimp contacts**

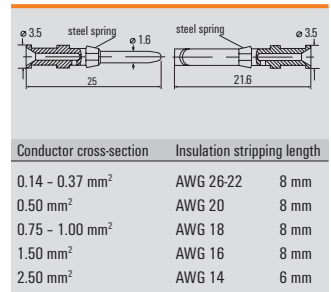
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000	
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000	
100	HDC-C-HD-SM0.75-1.00AU	1651640000	HDC-C-HD-BM0.75-1.00AU	1651690000	
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000	
100	HDC-C-HD-SM2.5AU	1651660000	HDC-C-HD-BM2.5AU	1651710000	
100	HDC-C-HD-SM0.14-0.37AG	1651520000	HDC-C-HD-BM0.14-0.37AG	1651570000	
100	HDC-C-HD-SM0.5AG	1651530000	HDC-C-HD-BM0.5AG	1651580000	
100	HDC-C-HD-SM0.75-1.00AG	1601750000	HDC-C-HD-BM0.75-1.00AG	1601760000	
100	HDC-C-HD-SM1.5AG	1651550000	HDC-C-HD-BM1.5AG	1651600000	
100	HDC-C-HD-SM2.5AG	1651560000	HDC-C-HD-BM2.5AG	1651610000	



**Tools**



Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
REMOVAL TOOL HD	1866730000
Note	

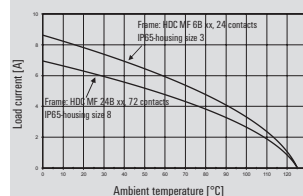
## ModuPlug® HDC MHD 12

### Technical data

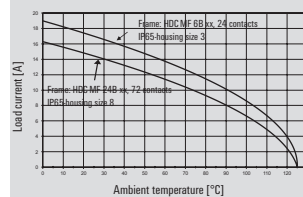
Contact inserts	
No. of poles	12
Rated current (DIN EN 61984)	10 A
Rated voltage (DIN EN 61984)	250 V
Rated impulse voltage (DIN EN 61984)	4 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

#### Note

HDC-MHD 12-modules in the IP65-housing,  
Conductor H05V-K0.5:



HDC-MHD 12-modules in the IP65-housing,  
Conductor H07V-K2.5:

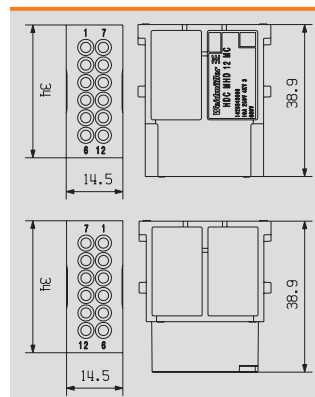


### Crimp connection



Deployment	Type	Order No.
Male	HDC MHD 12 MC	1428840000
Female	HDC MHD 12 FC	1428850000

#### Note



### Accessories

#### Crimp contacts

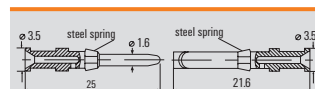
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000	1651670000
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000	1651680000
100	HDC-C-HD-SM0.75-1.00AU	1651640000	HDC-C-HD-BM0.75-1.00AU	1651690000	1651690000
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000	1651700000
100	HDC-C-HD-SM2.5AU	1651660000	HDC-C-HD-BM2.5AU	1651710000	1651710000
100	HDC-C-HD-SM0.14-0.37AG	1651520000	HDC-C-HD-BM0.14-0.37AG	1651570000	1651570000
100	HDC-C-HD-SM0.5AG	1651530000	HDC-C-HD-BM0.5AG	1651580000	1651580000
100	HDC-C-HD-SM0.75-1.00AG	1601750000	HDC-C-HD-BM0.75-1.00AG	1601760000	1601760000
100	HDC-C-HD-SM1.5AG	1651550000	HDC-C-HD-BM1.5AG	1651600000	1651600000
100	HDC-C-HD-SM2.5AG	1651560000	HDC-C-HD-BM2.5AG	1651610000	1651610000



Conductor cross-section	Insulation stripping length
0.14 - 0.37 mm <sup>2</sup>	AWG 26-22 8 mm
0.50 mm <sup>2</sup>	AWG 20 8 mm
0.75 - 1.00 mm <sup>2</sup>	AWG 18 8 mm
1.50 mm <sup>2</sup>	AWG 16 8 mm
2.50 mm <sup>2</sup>	AWG 14 6 mm

#### Tools



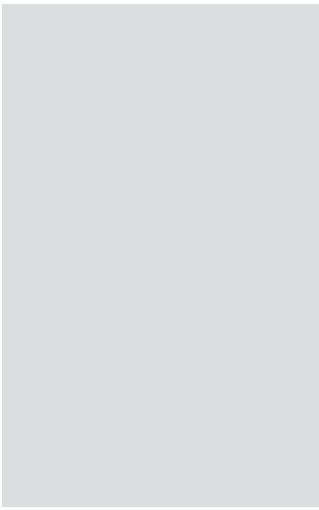
Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
REMOVAL TOOL HD	1866730000
Note	

**ModuPlug®**  
**HDC MBUS 2**

**Technical data**

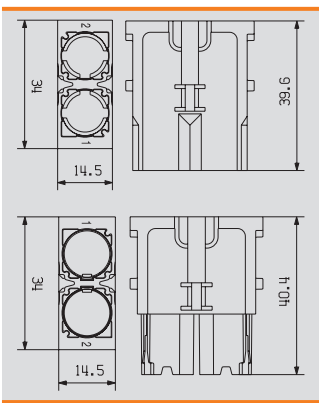
Contact inserts	
No. of poles	
Rated current (DIN EN 61984)	
Rated voltage (DIN EN 61984)	
Rated impulse voltage (DIN EN 61984)	
Pollution severity	3
Rated voltage according to UL/CSA	
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

**Note**



Deployment	Type	Order No.
Male	HDC MBUS 2 MC	1428990000
Female	HDC MBUS 2 FC	1429020000

**Note**



**Fixing clip**



Fixing clip	
HDC MBUS 2 MCLIP	1989290000
HDC MBUS 2 PCLIP	1989300000

**Note** MCLIP = metal version; PCLIP = plastic version

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

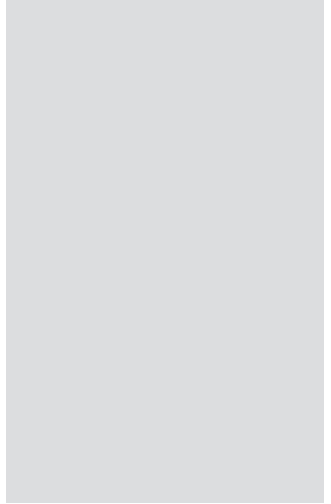
**ModuPlug®  
HDC MDU**

**Technical data**

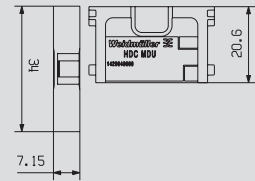
**Contact inserts**

No. of poles	
Rated current (DIN EN 61984)	
Rated voltage (DIN EN 61984)	
Rated impulse voltage (DIN EN 61984)	
Pollution severity	3
Rated voltage according to UL/CSA	
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	0.5

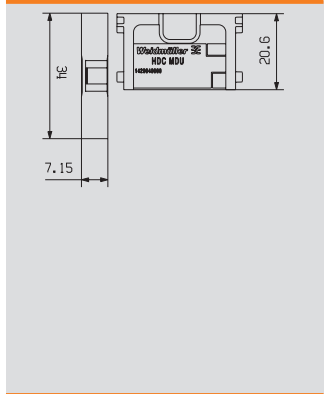
**Note**



Deployment	Type	Order No.
	HDC MDU	<b>1429040000</b>



**Note**



Technical data

Machinery

Process

Energy

Transportation

Device  
Manufacturers



**Device  
Manufacturers**



**Transportation**



**Energy**



**Process**



**Machinery**

**Technical data**

Cat. 5e

Technical data

No. of poles	4
Transmission rate	100 Mbit/s
Category	Cat. 5e
Coding	D
Rated current	4 A
Rated voltage	250 V
Pollution severity	2
Insulation resistance	≥ 10 <sup>9</sup> Ω
Limit temperature	-30 °C ... 90 °C
Plugging cycles	≥ 100
Contact surface	Au (Gold)

**Note**  
Round plug-in connector in accordance with IEC 61076-2-101



Module side version	Cable length	Opposite side version	Type	Order No.
Female	1 m	open	HDC XX5E01 FOXXXXX-0100	2003920100
Male	1 m	open	HDC XX5E01 MOXXXXX-0100	2003890100
Male	0.5 m	Female, straight	HDC XX5E01 MFSXXX-0050	2453550050
Male	1 m	Female, straight	HDC XX5E01 MFSXXX-0100	2453550100
Male	1.5 m	Female, straight	HDC XX5E01 MFSXXX-0150	2453550150
Male	3 m	Female, straight	HDC XX5E01 MFSXXX-0300	2453550300
Male	5 m	Female, straight	HDC XX5E01 MFSXXX-0500	2453550500
Female	1 m	Male, straight, M12D	HDC XX5E01 FMSM12D-0100	2451120100
Male	1 m	Male, straight, M12D	HDC XX5E01 MMSM12D-0100	2451110100
Male	1 m	Male, straight, RJ45	HDC XX5E01 MMSRJ45-0100	2450490100
Female	1 m	Male, straight, RJ45	HDC XX5E01 FMSRJ45-0100	2451080100

**Note** Other versions and cable lengths on request

Technical data

Machinery

Process

Energy

Transportation

Device  
Manufacturers

Cat. 6<sub>A</sub>

## Technical data

No. of poles	8
Transmission rate	10 GBit/s
Category	Cat. 6A
Coding	X
Rated current	0.5 A
Rated voltage	50 V
Pollution severity	2
Insulation resistance	≥ 10 <sup>9</sup> Ω
Limit temperature	-30 °C ... 90 °C
Plugging cycles	≥ 100
Contact surface	Au (Gold)

**Note**

Round plug-in connector in accordance with IEC 61076-2-109

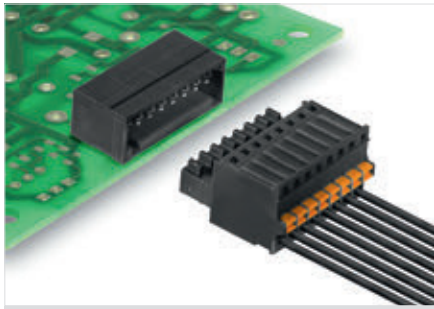


Module side version	Cable length	Opposite side version	Type	Order No.
Female	1 m	open	HDC XX6A01 FOXXXXX-0100	2003850100
Male	1 m	open	HDC XX6A01 MOXXXXX-0100	2003820100
Male	0.5 m	Female, straight	HDC XX6A01 MFSXXXX-0050	2453540050
Male	1 m	Female, straight	HDC XX6A01 MFSXXXX-0100	2453540100
Male	1.5 m	Female, straight	HDC XX6A01 MFSXXXX-0150	2453540150
Male	3 m	Female, straight	HDC XX6A01 MFSXXXX-0300	2453540300
Male	5 m	Female, straight	HDC XX6A01 MFSXXXX-0500	2453540500
Male	1 m	Male, straight, M12X	HDC XX6A01 MMSM12X-0100	2451130100
Female	1 m	Male, straight, M12X	HDC XX6A01 FMSM12X-0100	2451140100
Male	1 m	Male, straight, RJ45	HDC XX6A01 MMSRJ45-0100	2451090100
Female	1 m	Male, straight, RJ45	HDC XX6A01 FMSRJ45-0100	2451100100

**Note**

Other versions and cable lengths on request

SL 2.50../90G and 180G



Male header for wave soldering in 2.50mm pitch.

- Plugging direction is parallel (90°) or straight 180° to the PCB
- Housing variant: Closed (G)
- Packaged in a cardboard box (BX)

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 ferrule collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>6</b>	<b>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>80</b>	<b>320 320</b>
Rated impulse voltage	kV	2.5	2.5 2.5
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>150</b>	
<b>Rated current</b>	<b>A</b>	<b>5</b>	
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	150	
Rated current	A	5	
AWG conductor	AWG	-	
<b>General data</b>			
Type of insulation material		PA 66	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 0.8	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 320 V / 6 A  
UL: 150 V / 5 A



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

Note:

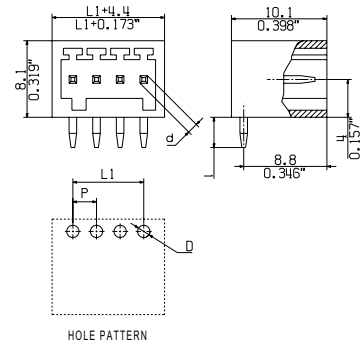
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 2.50../90G Box

closed side



Dimensioned drawing



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>				
Pol.	L1	(inch)	Qty.	Order No.
2	2.50	0.984	250	2439660000
3	5.00	1.968	250	2439760000
4	7.50	2.952	250	2439770000
5	10.00	3.936	200	2439780000
6	12.50	4.920	175	2439790000
7	15.00	5.904	125	2439800000
8	17.50	6.888	125	2439810000
9	20.00	7.872	125	2439820000
10	22.50	8.856	100	2439830000
11	25.00	9.840	100	2439840000
12	27.50	10.824	75	2439850000

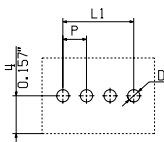
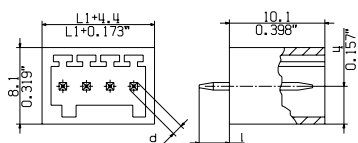


SL 2.50/.../180G Box

closed side



Dimensioned drawing



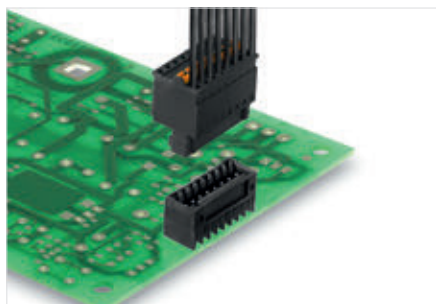
HOLE PATTERN

Ordering data

Solder pin length		3.2 mm		
Colour		Black		
<b>Pitch</b>				
Pol.	L1	(inch)	Qty.	Order No.
2	2.50	0.984	250	2439910000
3	5.00	1.968	250	2439920000
4	7.50	2.952	250	2439930000
5	10.00	3.936	200	2439940000
6	12.50	4.920	175	2439950000
7	15.00	5.904	125	2439960000
8	17.50	6.888	125	2439970000
9	20.00	7.872	125	2439980000
10	22.50	8.856	100	2439990000
11	25.00	9.840	100	2440000000
12	27.50	10.824	75	2440010000



### BLF 2.50/./180



**PUSH IN** - Weidmüller's innovative connection system simplifies the wire connection process.

The benefits for users and applications:

- High component density because of small pitch.  
Simply insert the prepared wire - and you're done
- Simplified processing, featuring integrated push buttons for opening the wire-terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated

### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.08...0.5	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.08...0.5</b>	
Stranded H07 V-R	mm <sup>2</sup>	0.08...0.5	
Flexible H05(07) V-K	mm <sup>2</sup>	0.08...0.5	
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>6</b>	<b>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>80</b>	<b>320 320</b>
Rated impulse voltage	kV	2.5	2.5 2.5
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>150</b>	
<b>Rated current</b>	<b>A</b>	<b>5</b>	
<b>AWG conductor</b>	<b>AWG</b>	<b>28-20</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	150	
Rated current	A	5	
AWG conductor	AWG	28-20	
<b>General data</b>			
Type of insulation material		PA	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

### Product data

IEC: 320 V / 6 A / 0.08 - 0.5 mm<sup>2</sup>  
UL: 150 V / 5 A / AWG 28 - 20



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

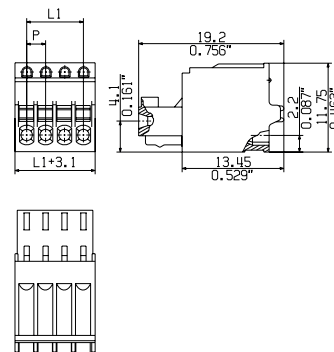
#### Note:

- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- 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.

### BLF 2.50/./180



### Dimensioned drawing



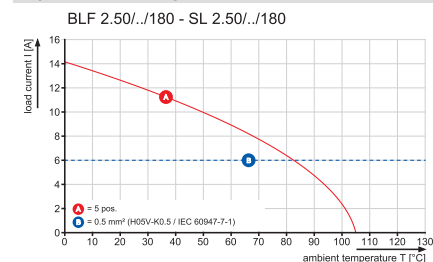
### Accessories

Note: Refer to the Accessories chapter for additional accessories.

### Ordering data

Solder pin length				
Colour	Black			
Pitch	2.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	2.50	0.984	100	2438860000
3	5.00	1.968	100	2439650000
4	7.50	2.952	100	2439670000
5	10.00	3.936	100	2439680000
6	12.50	4.920	100	2439690000
7	15.00	5.904	100	2439700000
8	17.50	6.888	100	2439710000
9	20.00	7.872	100	2439720000
10	22.50	8.856	100	2439730000
11	25.00	9.840	100	2439740000
12	27.50	10.824	100	2439750000

### Representative deratings curve





**Device  
Manufacturers**



**Transportation**



**Energy**



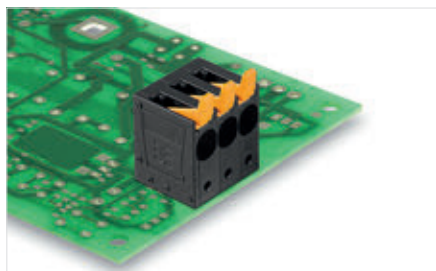
**Process**



**Machinery**

**Technical data**

### LUF 10.00/./90V



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

- Fast connection without tools thanks to an operating lever to open the contact point, or direct plug-in method
- 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 because WEMID insulating material is used.
- 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...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			
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>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>	-	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage			
Rated current			
AWG conductor	AWG	-	
<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	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
UL:



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

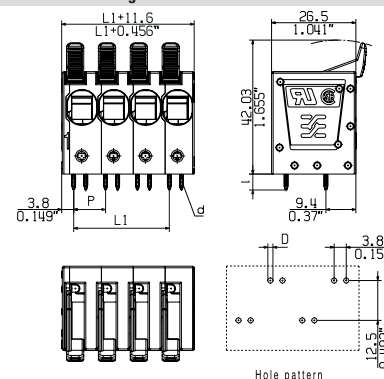
#### Note:

- 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.

### LUF 10.00/./90V



### Dimensioned drawing



### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	<b>9008400000</b>
	SDS 0.8X4.0X100	<b>9008340000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>

### 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	<b>2453690000</b>
3	20.00	0.787	40	<b>2453700000</b>
4	30.00	1.181	30	<b>2453710000</b>
5	40.00	1.575	30	<b>2453720000</b>
6	50.00	1.969	25	<b>2453730000</b>
7	60.00	2.362	20	<b>2453740000</b>
8	70.00	2.756	10	<b>2453750000</b>
9	80.00	3.150	10	<b>2453760000</b>
10	90.00	3.543	1	<b>2453770000</b>
11	100.00	3.937	1	<b>2453780000</b>
12	110.00	4.331	1	<b>2453790000</b>

**Device  
Manufacturers**



Transportation



Energy



Process



Machinery

Technical data

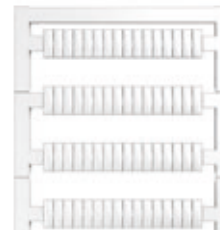
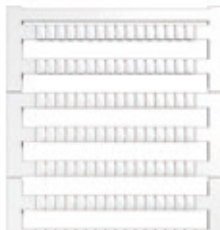
DEK and WS MultiCard

DEK 5/3.5 PLUS

3.5 mm

WS 10/3.5 PLUS

3.5 mm



Technical data

Material
UL 94 flammability rating
Ambient temperature (operational)
Width
Length

Polyamide 66
V-2
-40 °C...100 °C
3.5 mm
5 mm

Polyamide 66
V-2
-40 °C...100 °C
3.5 mm
10 mm

Ordering data

<b>MultiCard Plus Blank</b>
White <input type="radio"/>
<b>MultiCard Plus custom printing</b>
To customer specification

Type	Qty.	Order No.
DEK 5/3.5 PLUS MC NE WS	1600	2003750000
DEK 5/3.5 PLUS MC SDR	320	2007790000

Type	Qty.	Order No.
WS 10/3.5 PLUS MC NE WS	960	2003760000
WS 10/3.5 PLUS MC SDR	192	2007760000

Technical drawing / application



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

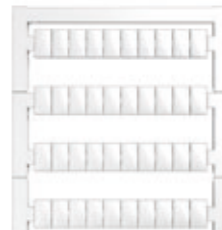
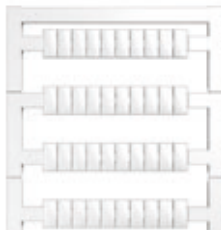
DEK and WS MultiCard

WS 10/5 M PLUS

5 mm

WS 10/6 M PLUS

6 mm



Technical data

Material
UL 94 flammability rating
Ambient temperature (operational)
Width
Length

Polyamide 66
V-2
-40 °C...100 °C
5 mm
10 mm

Polyamide 66
V-2
-40 °C...100 °C
6 mm
10 mm

Ordering data

<b>MultiCard Plus Blank</b>
White <input type="radio"/>
<b>MultiCard Plus custom printing</b>
To customer specification

Type	Qty.	Order No.
WS 10/5 M PLUS MC NE WS	600	2003770000
WS 10/5 M PLUS MC SDR	120	2007770000

Type	Qty.	Order No.
WS 10/6 M PLUS MC NE WS	600	2003780000
WS 10/6 M PLUS MC SDR	120	2007780000

Technical drawing / application



Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



MF MultiCard

MF-ABB 12/5

5 mm

MF-ABB 12/6

6 mm



Technical data

Material
UL 94 flammability rating
Ambient temperature (operational)
Application/manufacturer
Width
Length

Polyamide 66
V-2
-40 °C...100 °C
ABB SNK series
5 mm
12 mm

Polyamide 66
V-2
-40 °C...100 °C
ABB SNK series
6 mm
12 mm

Ordering data

MultiCard Blank
White
MultiCard custom printing
To customer specification

Type	Qty.	Order No.
MF-ABB 12/5 MC NE WS	400	2047320000
MF-ABB 12/5 MC SDR	80	2047460000

Type	Qty.	Order No.
MF-ABB 12/6 MC NE WS	400	2047340000
MF-ABB 12/6 MC SDR	80	2047510000

Technical drawing / application



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers



**MF MultiCard**

**MF-ABB 12/8**

**8 mm**



**Technical data**

Material
UL 94 flammability rating
Ambient temperature (operational)
Application/manufacturer
Width
Length

Polyamide 66
V-2
-40 °C...100 °C
ABB SNK series
8 mm
12 mm

**Ordering data**

<b>MultiCard Blank</b>
White <input type="radio"/>
<b>MultiCard custom printing</b>
To customer specification

Type	Qty.	Order No.
MF-ABB 12/8 MC NE WS	280	<b>2047350000</b>
MF-ABB 12/8 MC SDR	56	<b>2047520000</b>

**Technical drawing / application**



Technical data

Machinery



Process



Energy



Transportation



Device  
Manufacturers



ESG MultiCard

ESG 15/10

15 mm

ESG 9/17.7

9 mm



Technical data

Material
UL 94 flammability rating
Ambient temperature (operational)
Application/manufacturer
Width
Length

Polyamide 66
V-2
-40 °C...100 °C
Siemens ET 200SP
15 mm
10 mm

Polyamide 66
V-2
-40 °C...100 °C
LS switch, Self-adhesive
9 mm
17.7 mm

Ordering data

<b>MultiCard Blank</b>
White <input type="radio"/>
<b>MultiCard custom printing</b>
To customer specification

Type	Qty.	Order No.
ESG 15/10 MC NE WS	160	2047360000
ESG 15/10 MC SDR	32	2047540000

Type	Qty.	Order No.
ESG 9/17.7 K MC NE WS	180	2047430000
ESG 9/17.7 K MC SDR	36	2047550000

Technical drawing / application



Technical data

Machinery

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Transportation

Device  
Manufacturers

ClipCard MutliCard

CC DIA 30 K

30 mm



Technical data

Material
UL 94 flammability rating
Ambient temperature (operational)
Application/manufacturer
Width
Length

Polyamide 66
V-2
-40 °C...60 °C
Self-adhesive, Ø 30 mm
30 mm
30 mm

Ordering data

<b>MultiCard Blank, self adhesive</b>	
White	○
Yellow	●
Grey	●
<b>MultiCard, adhesive backing, custom printing</b>	
To customer specification	

Type	Qty.	Order No.
CC DIA 30 K MC NE WS	60	2047380000
CC DIA 30 K MC NE GE	60	2047390000
CC DIA 30 K MC NE GR	60	2047400000
CC DIA 30 K SDR	12	2047560000

Technical drawing / application



Technical data

Machinery



Process



Energy



Transportation



Device  
Manufacturers



### Terminal markers DEK, WS

#### Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
PC-ABS, TPU	-50...90 °C	V-2		<b>2005090000</b>	RIBBON MM-TB 25/360 SW



#### Ordering data

Order No.	Type	Colour	Length	Width	Qty.
2007100000	DEK 5/3.5 MM WS	○ White	5 mm	3.5 mm	1000
2007110000	DEK 5/5 MM WS	○ White	5 mm	5 mm	800
2007120000	DEK 5/6 MM WS	○ White	5 mm	6 mm	600
2007130000	DEK 5/8 MM WS	○ White	5 mm	8 mm	500
2007140000	WS 8/3.5 MM WS	○ White	8 mm	3.5 mm	1000
2007150000	WS 8/5 MM WS	○ White	8 mm	5 mm	800
2007160000	WS 8/6 MM WS	○ White	8 mm	6 mm	600
2007170000	WS 8/8 MM WS	○ White	8 mm	8 mm	500
2007180000	WS 12/3.5 MM WS	○ White	12 mm	3.5 mm	1000
2007190000	WS 12/5 MM WS	○ White	12 mm	5 mm	800
2007200000	WS 12/6 MM WS	○ White	12 mm	6 mm	600
2007210000	WS 12/8 MM WS	○ White	12 mm	8 mm	500

### Conductor markers TM-I

#### Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyester	-40...150 °C	HB		<b>2005080000</b>	RIBBON MM 80/360 SW



#### Ordering data

Order No.	Type	Colour	Length	Width	Qty.
2005890000	TM-I 12 MM BL	● Blue	12 mm	4 mm	2000
2005550000	TM-I 12 MM GE	● Yellow	12 mm	4 mm	2000
2005730000	TM-I 12 MM RT	● Red	12 mm	4 mm	2000
2005440000	TM-I 12 MM WS	○ White	12 mm	4 mm	2000
2005910000	TM-I 15 MM BL	● Blue	15 mm	4 mm	2000
2005580000	TM-I 15 MM GE	● Yellow	15 mm	4 mm	2000
2005760000	TM-I 15 MM RT	● Red	15 mm	4 mm	2000
2005450000	TM-I 15 MM WS	○ White	15 mm	4 mm	2000
2005930000	TM-I 18 MM BL	● Blue	18 mm	4 mm	2000
2005610000	TM-I 18 MM GE	● Yellow	18 mm	4 mm	2000
2005790000	TM-I 18 MM RT	● Red	18 mm	4 mm	2000
2005470000	TM-I 18 MM WS	○ White	18 mm	4 mm	2000
2005950000	TM-I 20 MM BL	● Blue	20 mm	4 mm	2000
2005640000	TM-I 20 MM GE	● Yellow	20 mm	4 mm	2000
2005820000	TM-I 20 MM RT	● Red	20 mm	4 mm	2000
2005490000	TM-I 20 MM WS	○ White	20 mm	4 mm	2000
2005970000	TM-I 23 MM BL	● Blue	23 mm	4 mm	2000
2005670000	TM-I 23 MM GE	● Yellow	23 mm	4 mm	2000
2005850000	TM-I 23 MM RT	● Red	23 mm	4 mm	2000
2005510000	TM-I 23 MM WS	○ White	23 mm	4 mm	2000
2005990000	TM-I 30 MM BL	● Blue	30 mm	4 mm	2000
2005700000	TM-I 30 MM GE	● Yellow	30 mm	4 mm	2000
2005870000	TM-I 30 MM RT	● Red	30 mm	4 mm	2000
2005530000	TM-I 30 MM WS	○ White	30 mm	4 mm	2000

Technical data

Machinery

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Transportation

Device Manufacturers

### Conductor markers WM

#### Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyester	-40...150 °C	HB		2005080000	RIBBON MM 80/360 SW



#### Ordering data

Order No.	Type	Colour	Conductor O.D.	Printing area	Qty.
2006250000	WM 0/12 1.0-2.0 MM GE	● Yellow	1 - 2 mm	13 x 3.5mm	2000
2006170000	WM 0/12 1.0-2.0 MM WS	○ White	1 - 2 mm	13 x 3.5mm	2000
2006090000	WM 0/21 1.0-2.0 MM GE	● Yellow	1 - 2 mm	22 x 3.5mm	2000
2006010000	WM 0/21 1.0-2.0 MM WS	○ White	1 - 2 mm	22 x 3.5mm	2000
2006410000	WM 0/6 1.0-2.0 MM GE	● Yellow	1 - 2 mm	7 x 3.5mm	2000
2006330000	WM 0/6 1.0-2.0 MM WS	○ White	1 - 2 mm	7 x 3.5mm	2000
2006270000	WM 1/12 2.0-3.5 MM GE	● Yellow	2 - 3.5 mm	13 x 4.8mm	2000
2006190000	WM 1/12 2.0-3.5 MM WS	○ White	2 - 3.5 mm	13 x 4.8mm	2000
2006110000	WM 1/21 2.0-3.5 MM GE	● Yellow	2 - 3.5 mm	22 x 4.8mm	2000
2006030000	WM 1/21 2.0-3.5 MM WS	○ White	2 - 3.5 mm	22 x 4.8mm	2000
2006430000	WM 1/6 2.0-3.5 MM GE	● Yellow	2 - 3.5 mm	7 x 4.8mm	2000
2006350000	WM 1/6 2.0-3.5 MM WS	○ White	2 - 3.5 mm	7 x 4.8mm	2000
2006290000	WM 2/12 3.5-5.0 MM GE	● Yellow	3.5 - 5 mm	12 x 6.4mm	2000
2006210000	WM 2/12 3.5-5.0 MM WS	○ White	3.5 - 5 mm	12 x 6.4mm	2000
2006130000	WM 2/21 3.5-5.0 MM GE	● Yellow	3.5 - 5 mm	22 x 6.4mm	2000
2006050000	WM 2/21 3.5-5.0 MM WS	○ White	3.5 - 5 mm	22 x 6.4mm	2000
2006450000	WM 2/6 3.5-5.0 MM GE	● Yellow	3.5 - 5 mm	7 x 6.4mm	2000
2006370000	WM 2/6 3.5-5.0 MM WS	○ White	3.5 - 5 mm	7 x 6.4mm	2000
2006310000	WM 3/12 5.0-8.0 MM GE	● Yellow	5 - 8 mm	12 x 10 mm	2000
2006230000	WM 3/12 5.0-8.0 MM WS	○ White	5 - 8 mm	12 x 10 mm	2000
2006150000	WM 3/21 5.0-8.0 MM GE	● Yellow	5 - 8 mm	22 x 10 mm	2000
2006070000	WM 3/21 5.0-8.0 MM WS	○ White	5 - 8 mm	22 x 10 mm	2000
2006470000	WM 3/6 5.0-8.0 MM GE	● Yellow	5 - 8 mm	7 x 10 mm	2000
2006390000	WM 3/6 5.0-8.0 MM WS	○ White	5 - 8 mm	7 x 10 mm	2000



### Cable markers SFX

#### Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyurethane	-40...90 °C	HB		2005080000	RIBBON MM 80/360 SW



#### Ordering data

Order No.	Type	Colour	Length	Width	Printing area	Qty.
2005380000	SFX 9/24 MM GE	● Yellow	24 mm	9 mm	9 x 23.5mm	1000
2005320000	SFX 9/24 MM WS	○ White	24 mm	9 mm	9 x 23.5mm	1000
2005400000	SFX 11/60 MM GE	● Yellow	60 mm	11 mm	44 x 10.5mm	1000
2005340000	SFX 11/60 MM WS	○ White	60 mm	11 mm	44 x 10.5mm	1000
2005420000	SFX 30/60 MM GE	● Yellow	60 mm	30 mm	45 x 29.5mm	300
2005360000	SFX 30/60 MM WS	○ White	60 mm	30 mm	45 x 29.5mm	300



Technical data

Machinery

Process

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Transportation

Device Manufacturers

Device markers ESG

Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyester	-40...120 °C	V-0	Acrylate adhesive	<b>2005080000</b>	RIBBON MM 80/360 SW
				<b>2005040000</b>	RIBBON MM 80/300 WS



Ordering data

Order No.	Type	Colour	Length	Width	Qty.
2005110000	ESG 6/17 MM GE	● Yellow	17 mm	6 mm	3000
2005120000	ESG 6/17 MM GR	● Grey	17 mm	6 mm	3000
2005130000	ESG 6/17 MM SW	● Black	17 mm	6 mm	3000
2005100000	ESG 6/17 MM WS	○ White	17 mm	6 mm	3000
2005150000	ESG 8/20 MM GE	● Yellow	20 mm	8 mm	3000
2005160000	ESG 8/20 MM GR	● Grey	20 mm	8 mm	3000
2005170000	ESG 8/20 MM SW	● Black	20 mm	8 mm	3000
2005140000	ESG 8/20 MM WS	○ White	20 mm	8 mm	3000
2005210000	ESG 9/17 MM GE	● Yellow	17 mm	9 mm	3000
2005230000	ESG 9/17 MM GR	● Grey	17 mm	9 mm	3000
2005250000	ESG 9/17 MM SW	● Black	17 mm	9 mm	3000
2005190000	ESG 9/17 MM WS	○ White	17 mm	9 mm	3000

Device markers SM

Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyester	-40...120 °C	V-0	Acrylate adhesive	<b>2005080000</b>	RIBBON MM 80/360 SW
				<b>2005040000</b>	RIBBON MM 80/300 WS



Ordering data

Order No.	Type	Colour	Length	Width	Qty.
2006240000	SM 18/9.5 MM GE	● Yellow	9 mm	18 mm	1000
2006260000	SM 18/9.5 MM GR	● Grey	9 mm	18 mm	1000
2006200000	SM 18/9.5 MM SW	● Black	9 mm	18 mm	1000
2006220000	SM 18/9.5 MM WS	○ White	9 mm	18 mm	1000
2006420000	SM 27/8 MM GE	● Yellow	8 mm	27 mm	1000
2006490000	SM 27/8 MM GN	● Green	8 mm	27 mm	1000
2006480000	SM 27/8 MM GR	● Grey	8 mm	27 mm	1000
2006460000	SM 27/8 MM RT	● Red	8 mm	27 mm	1000
2006440000	SM 27/8 MM SW	● Black	8 mm	27 mm	1000
2006400000	SM 27/8 MM WS	○ White	8 mm	27 mm	1000
2006510000	SM 27/12.5 MM GE	● Yellow	12.5 mm	27 mm	1000
2006550000	SM 27/12.5 MM GN	● Green	12.5 mm	27 mm	1000
2006520000	SM 27/12.5 MM GR	● Grey	12.5 mm	27 mm	1000
2006540000	SM 27/12.5 MM RT	● Red	12.5 mm	27 mm	1000
2006530000	SM 27/12.5 MM SW	● Black	12.5 mm	27 mm	1000
2006500000	SM 27/12.5 MM WS	○ White	12.5 mm	27 mm	1000
2006300000	SM 27/18 MM GE	● Yellow	18 mm	27 mm	1000
2006380000	SM 27/18 MM GN	● Green	18 mm	27 mm	1000
2006340000	SM 27/18 MM GR	● Grey	18 mm	27 mm	1000
2006360000	SM 27/18 MM RT	● Red	18 mm	27 mm	1000
2006320000	SM 27/18 MM SW	● Black	18 mm	27 mm	1000
2006280000	SM 27/18 MM WS	○ White	18 mm	27 mm	1000

Technical data

Machinery

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Transportation

Device Manufacturers

Device markers SM

Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyester	-40...120 °C	V-0	Acrylate adhesive	<b>2005080000</b>	RIBBON MM 80/360 SW
				<b>2005040000</b>	RIBBON MM 80/300 WS



Ordering data

Order No.	Type	Colour	Length	Width	Qty.
2005810000	SM 27/18-22 MM GE	● Yellow	53.75 mm	27 mm	1000
2005920000	SM 27/18-22 MM GN	● Green	53.75 mm	27 mm	1000
2005860000	SM 27/18-22 MM GR	● Grey	53.75 mm	27 mm	1000
2005900000	SM 27/18-22 MM RT	● Red	53.75 mm	27 mm	1000
2005880000	SM 27/18-22 MM SW	● Black	53.75 mm	27 mm	1000
2005840000	SM 27/18-22 MM WS	○ White	53.75 mm	27 mm	1000
2006080000	SM 36/18-30 MM GE	● Yellow	62 mm	36 mm	1000
2006180000	SM 36/18-30 MM GN	● Green	62 mm	36 mm	1000
2006120000	SM 36/18-30 MM GR	● Grey	62 mm	36 mm	1000
2006160000	SM 36/18-30 MM RT	● Red	62 mm	36 mm	1000
2006140000	SM 36/18-30 MM SW	● Black	62 mm	36 mm	1000
2006100000	SM 36/18-30 MM WS	○ White	62 mm	36 mm	1000

Device markers SM

Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyester	-40...120 °C	V-0	Acrylate adhesive	<b>2005080000</b>	RIBBON MM 80/360 SW



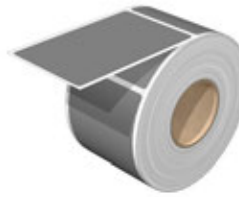
Ordering data

Order No.	Type	Colour	Diameter	Qty.
2006060000	SM DIA 60-22 MM GE	● Yellow	60 mm	450

Device markers CC

Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyester	-40...120 °C	V-0	Acrylate adhesive	<b>2005080000</b>	RIBBON MM 80/360 SW
				<b>2005040000</b>	RIBBON MM 80/300 WS



Ordering data

Order No.	Type	Colour	Length	Width	Qty.
2005630000	CC 15/27 MM GE	● Yellow	27 mm	15 mm	450
2005660000	CC 15/27 MM GR	● Grey	27 mm	15 mm	450
2005690000	CC 15/27 MM SW	● Black	27 mm	15 mm	450
2005600000	CC 15/27 MM WS	○ White	27 mm	15 mm	450
2005520000	CC 15/45 MM GE	● Yellow	45 mm	15 mm	450
2005540000	CC 15/45 MM GR	● Grey	45 mm	15 mm	450
2005570000	CC 15/45 MM SW	● Black	45 mm	15 mm	450
2005500000	CC 15/45 MM WS	○ White	45 mm	15 mm	450
2005430000	CC 15/60 MM GE	● Yellow	60 mm	15 mm	450
2005460000	CC 15/60 MM GR	● Grey	60 mm	15 mm	450
2005480000	CC 15/60 MM SW	● Black	60 mm	15 mm	450
2005410000	CC 15/60 MM WS	○ White	60 mm	15 mm	450
2005350000	CC 30/60 MM GE	● Yellow	60 mm	30 mm	450
2005370000	CC 30/60 MM GR	● Grey	60 mm	30 mm	450
2005390000	CC 30/60 MM SW	● Black	60 mm	30 mm	450
2005330000	CC 30/60 MM WS	○ White	60 mm	30 mm	450
2005280000	CC 85/54 MM GE	● Yellow	54 mm	85 mm	450
2005290000	CC 85/54 MM GR	● Grey	54 mm	85 mm	450
2005310000	CC 85/54 MM SW	● Black	54 mm	85 mm	450
2005270000	CC 85/54 MM WS	○ White	54 mm	85 mm	450

Technical data  
Machinery  
Process  
Energy  
Transportation  
Device Manufacturers

Device markers Endless

Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyester	-40...120 °C	V-0	Acrylate adhesive	<b>2005080000</b>	RIBBON MM 80/360 SW
				<b>2005070000</b>	RIBBON MM 110/360 SW



Ordering data

Order No.	Type	Colour	Length	Width	Qty.
2006580000	EL 12 MM GE 30M	● Yellow	30000 mm	12 mm	1
2006560000	EL 12 MM SI 30M	● Silver	30000 mm	12 mm	1
2006570000	EL 12 MM WS 30M	○ White	30000 mm	12 mm	1
2006600000	EL 15 MM GE 30M	● Yellow	30000 mm	15 mm	1
2006610000	EL 15 MM SI 30M	● Silver	30000 mm	15 mm	1
2006590000	EL 15 MM WS 30M	○ White	30000 mm	15 mm	1
2006640000	EL 27 MM GE 30M	● Yellow	30000 mm	27 mm	1
2006620000	EL 27 MM SI 30M	● Silver	30000 mm	27 mm	1
2006630000	EL 27 MM WS 30M	○ White	30000 mm	27 mm	1
2006670000	EL 38 MM GE 30M	● Yellow	30000 mm	38 mm	1
2006650000	EL 38 MM SI 30M	● Silver	30000 mm	38 mm	1
2006660000	EL 38 MM WS 30M	○ White	30000 mm	38 mm	1
2006700000	EL 60 MM GE 30M	● Yellow	30000 mm	60 mm	1
2006680000	EL 60 MM SI 30M	● Silver	30000 mm	60 mm	1
2006690000	EL 60 MM WS 30M	○ White	30000 mm	60 mm	1
2006730000	EL 100 MM GE 30M	● Yellow	30000 mm	100 mm	1
2006710000	EL 100 MM SI 30M	● Silver	30000 mm	100 mm	1
2006720000	EL 100 MM WS 30M	○ White	30000 mm	100 mm	1

Inlay tags ELS

Technical data

Material	Temperature range	Fire class acc. to UL 94	Adhesive	Order No.	Type
Polyester	-40...150 °C	HB		<b>2005080000</b>	RIBBON MM 80/360 SW



Ordering data

Order No.	Type	Colour	Length	Width	Qty.
2010620000	ELS 6/30 MM GE	● Yellow	30 mm	6 mm	3000
2009980000	ELS 6/30 MM WS	○ White	30 mm	6 mm	3000
2005240000	ELS 8/20 MM GE	● Yellow	20 mm	8 mm	3000
2005180000	ELS 8/20 MM WS	○ White	20 mm	8 mm	3000
2005260000	ELS 16/40 MM GE	● Yellow	40 mm	16 mm	2000
2005200000	ELS 16/40 MM WS	○ White	40 mm	16 mm	2000

Technical data

Machinery

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Device Manufacturers



HS... 25,4 mm

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	3:1	-55...135 °C	90 °C	2448880000	RIBBON MM-HS 60/300 SW

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
2437470000	HS 0.8-2.4/25 MM W	○	25.4 mm	0.8 - 2.4 mm	2000
2437480000	HS 0.8-2.4/25 MM Y	●	25.4 mm	0.8 - 2.4 mm	2000
2437510000	HS 1.0-3.2/25 MM W	○	25.4 mm	1 - 3.2 mm	2000
2437520000	HS 1.0-3.2/25 MM Y	●	25.4 mm	1 - 3.2 mm	2000
2437550000	HS 1.6-4.8/25 MM W	○	25.4 mm	1.6 - 4.8 mm	2000
2437560000	HS 1.6-4.8/25 MM Y	●	25.4 mm	1.6 - 4.8 mm	2000
2437630000	HS 2.1-6.4/25 MM W	○	25.4 mm	2.1 - 6.4 mm	2000
2437640000	HS 2.1-6.4/25 MM Y	●	25.4 mm	2.1 - 6.4 mm	2000
2437670000	HS 3.2-9.5/25 MM W	○	25.4 mm	3.2 - 9.5 mm	1000
2437680000	HS 3.2-9.5/25 MM Y	●	25.4 mm	3.2 - 9.5 mm	1000
2437710000	HS 4.2-12.7/25 MM W	○	25.4 mm	4.2 - 12.7 mm	1000
2437720000	HS 4.2-12.7/25 MM Y	●	25.4 mm	4.2 - 12.7 mm	1000
2437750000	HS 6.4-19.1/25 MM W	○	25.4 mm	6.4 - 19.1 mm	800
2437760000	HS 6.4-19.1/25 MM Y	●	25.4 mm	6.4 - 19.1 mm	800
2437790000	HS 8.5-25.4/25 MM W	○	25.4 mm	8.5 - 25.4 mm	400
2437800000	HS 8.5-25.4/25 MM Y	●	25.4 mm	8.5 - 25.4 mm	400
2437590000	HS 12.7-38.1/25 MM W	○	25.4 mm	12.7 - 38.1 mm	200
2437600000	HS 12.7-38.1/25 MM Y	●	25.4 mm	12.7 - 38.1 mm	200



HS... 50,8 mm

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	3:1	-55...135 °C	90 °C	2448880000	RIBBON MM-HS 60/300 SW

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
2437490000	HS 0.8-2.4/50 MM W	○	50.8 mm	0.8 - 2.4 mm	1000
2437500000	HS 0.8-2.4/50 MM Y	●	50.8 mm	0.8 - 2.4 mm	1000
2437530000	HS 1.0-3.2/50 MM W	○	50.8 mm	1 - 3.2 mm	1000
2437540000	HS 1.0-3.2/50 MM Y	●	50.8 mm	1 - 3.2 mm	1000
2437570000	HS 1.6-4.8/50 MM W	○	50.8 mm	1.6 - 4.8 mm	1000
2437580000	HS 1.6-4.8/50 MM Y	●	50.8 mm	1.6 - 4.8 mm	1000
2437650000	HS 2.1-6.4/50 MM W	○	50.8 mm	2.1 - 6.4 mm	1000
2437660000	HS 2.1-6.4/50 MM Y	●	50.8 mm	2.1 - 6.4 mm	1000
2437690000	HS 3.2-9.5/50 MM W	○	50.8 mm	3.2 - 9.5 mm	500
2437700000	HS 3.2-9.5/50 MM Y	●	50.8 mm	3.2 - 9.5 mm	500
2437730000	HS 4.2-12.7/50 MM W	○	50.8 mm	4.2 - 12.7 mm	500
2437740000	HS 4.2-12.7/50 MM Y	●	50.8 mm	4.2 - 12.7 mm	500
2437770000	HS 6.4-19.1/50 MM W	○	50.8 mm	6.4 - 19.1 mm	400
2437780000	HS 6.4-19.1/50 MM Y	●	50.8 mm	6.4 - 19.1 mm	400
2437810000	HS 8.5-25.4/50 MM W	○	50.8 mm	8.5 - 25.4 mm	200
2437820000	HS 8.5-25.4/50 MM Y	●	50.8 mm	8.5 - 25.4 mm	200
2437610000	HS 12.7-38.1/50 MM W	○	50.8 mm	12.7 - 38.1 mm	100
2437620000	HS 12.7-38.1/50 MM Y	●	50.8 mm	12.7 - 38.1 mm	100



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

### HS-HF 25.4 mm

#### Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55...105 °C	90 °C	<b>2448880000</b>	RIBBON MM-HS 60/300 SW



#### Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
2437830000	HS-HF 1.2-2.4/25 MM W	○	25.4 mm	1.2 - 2.4 mm	2000
2437840000	HS-HF 1.2-2.4/25 MM Y	●	25.4 mm	1.2 - 2.4 mm	2000
2437870000	HS-HF 1.6-3.2/25 MM W	○	25.4 mm	1.6 - 3.2 mm	2000
2437880000	HS-HF 1.6-3.2/25 MM Y	●	25.4 mm	1.6 - 3.2 mm	2000
2437990000	HS-HF 2.4-4.8/25 MM W	○	25.4 mm	2.4 - 4.8 mm	2000
2438000000	HS-HF 2.4-4.8/25 MM Y	●	25.4 mm	2.4 - 4.8 mm	2000
2438040000	HS-HF 3.2-6.4/25 MM W	○	25.4 mm	3.2 - 6.4 mm	2000
2438050000	HS-HF 3.2-6.4/25 MM Y	●	25.4 mm	3.2 - 6.4 mm	2000
2438090000	HS-HF 4.8-9.5/25 MM W	○	25.4 mm	4.8 - 9.5 mm	1000
2438100000	HS-HF 4.8-9.5/25 MM Y	●	25.4 mm	4.8 - 9.5 mm	1000
2438140000	HS-HF 6.4-12.7/25 MM W	○	25.4 mm	6.4 - 12.7 mm	1000
2438150000	HS-HF 6.4-12.7/25 MM Y	●	25.4 mm	6.4 - 12.7 mm	1000
2438190000	HS-HF 9.5-19.1/25 MM W	○	25.4 mm	9.5 - 19.1 mm	800
2438200000	HS-HF 9.5-19.1/25 MM Y	●	25.4 mm	9.5 - 19.1 mm	800
2437910000	HS-HF 12.7-25.4/25 MM W	○	25.4 mm	12.7 - 25.4 mm	400
2437920000	HS-HF 12.7-25.4/25 MM Y	●	25.4 mm	12.7 - 25.4 mm	400
2437950000	HS-HF 19.5-38.1/25 MM W	○	25.4 mm	19.5 - 38.1 mm	200
2437960000	HS-HF 19.5-38.1/25 MM Y	●	25.4 mm	19.5 - 38.1 mm	200

### HS-HF 50.8 mm

#### Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55...105 °C	90 °C	<b>2448880000</b>	RIBBON MM-HS 60/300 SW



#### Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
2437850000	HS-HF 1.2-2.4/50 MM W	○	50.8 mm	1.2 - 2.4 mm	1000
2437860000	HS-HF 1.2-2.4/50 MM Y	●	50.8 mm	1.2 - 2.4 mm	1000
2437890000	HS-HF 1.6-3.2/50 MM W	○	50.8 mm	1.6 - 3.2 mm	1000
2437900000	HS-HF 1.6-3.2/50 MM Y	●	50.8 mm	1.6 - 3.2 mm	1000
2438010000	HS-HF 2.4-4.8/50 MM W	○	50.8 mm	2.4 - 4.8 mm	1000
2438020000	HS-HF 2.4-4.8/50 MM Y	●	50.8 mm	2.4 - 4.8 mm	1000
2438060000	HS-HF 3.2-6.4/50 MM W	○	50.8 mm	3.2 - 6.4 mm	1000
2438070000	HS-HF 3.2-6.4/50 MM Y	●	50.8 mm	3.2 - 6.4 mm	1000
2438110000	HS-HF 4.8-9.5/50 MM W	○	50.8 mm	4.8 - 9.5 mm	500
2438120000	HS-HF 4.8-9.5/50 MM Y	●	50.8 mm	4.8 - 9.5 mm	500
2438160000	HS-HF 6.4-12.7/50 MM W	○	50.8 mm	6.4 - 12.7 mm	500
2438170000	HS-HF 6.4-12.7/50 MM Y	●	50.8 mm	6.4 - 12.7 mm	500
2438210000	HS-HF 9.5-19.1/50 MM W	○	50.8 mm	9.5 - 19.1 mm	400
2438220000	HS-HF 9.5-19.1/50 MM Y	●	50.8 mm	9.5 - 19.1 mm	400
2437930000	HS-HF 12.7-25.4/50 MM W	○	50.8 mm	12.7 - 25.4 mm	200
2437940000	HS-HF 12.7-25.4/50 MM Y	●	50.8 mm	12.7 - 25.4 mm	200
2437970000	HS-HF 19.5-38.1/50 MM W	○	50.8 mm	19.5 - 38.1 mm	100
2437980000	HS-HF 19.5-38.1/50 MM Y	●	50.8 mm	19.5 - 38.1 mm	100

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

**HSS... Endless 13 meters**

**Technical data**

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	3:1	-55 °C...135 °C	90 °C	<b>1426210000</b>	RIBBON HSS HF EL 40/300

**Ordering data**

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1489620000	HSS 0.8-2.4 EL W13M	○	13000 mm	0.8 - 2.4 mm	1
1489530000	HSS 0.8-2.4 EL Y13M	●	13000 mm	0.8 - 2.4 mm	1
1489630000	HSS 1.0-3.2 EL W13M	○	13000 mm	1 - 3.2 mm	1
1489540000	HSS 1.0-3.2 EL Y13M	●	13000 mm	1 - 3.2 mm	1
1489640000	HSS 1.6-4.8 EL W13M	○	13000 mm	1.6 - 4.8 mm	1
1489550000	HSS 1.6-4.8 EL Y13M	●	13000 mm	1.6 - 4.8 mm	1
1489650000	HSS 2.1-6.4 EL W13M	○	13000 mm	2.1 - 6.4 mm	1
1489560000	HSS 2.1-6.4 EL Y13M	●	13000 mm	2.1 - 6.4 mm	1
1489660000	HSS 3.2-9.5 EL W13M	○	13000 mm	3.2 - 9.5 mm	1
1489570000	HSS 3.2-9.5 EL Y13M	●	13000 mm	3.2 - 9.5 mm	1
1489670000	HSS 4.2-12.7 EL W13M	○	13000 mm	4.2 - 12.7 mm	1
1489580000	HSS 4.2-12.7 EL Y13M	●	13000 mm	4.2 - 12.7 mm	1
1489680000	HSS 6.4-19.1 EL W13M	○	13000 mm	6.4 - 19.1 mm	1
1489590000	HSS 6.4-19.1 EL Y13M	●	13000 mm	6.4 - 19.1 mm	1

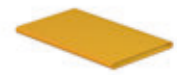
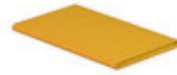
**HSS... Endless 30 meters**

**Technical data**

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	3:1	-55 °C...135 °C	90 °C	<b>1426210000</b>	RIBBON HSS HF EL 40/300

**Ordering data**

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1505840000	HSS 0.8-2.4 EL W30M	○	30000 mm	0.8 - 2.4 mm	1
1505760000	HSS 0.8-2.4 EL Y30M	●	30000 mm	0.8 - 2.4 mm	1
1505850000	HSS 1.0-3.2 EL W30M	○	30000 mm	1 - 3.2 mm	1
1505770000	HSS 1.0-3.2 EL Y30M	●	30000 mm	1 - 3.2 mm	1
1505860000	HSS 1.6-4.8 EL W30M	○	30000 mm	1.6 - 4.8 mm	1
1505780000	HSS 1.6-4.8 EL Y30M	●	30000 mm	1.6 - 4.8 mm	1
1505870000	HSS 2.1-6.4 EL W30M	○	30000 mm	2.1 - 6.4 mm	1
1505790000	HSS 2.1-6.4 EL Y30M	●	30000 mm	2.1 - 6.4 mm	1
1505880000	HSS 3.2-9.5 EL W30M	○	30000 mm	3.2 - 9.5 mm	1
1505800000	HSS 3.2-9.5 EL Y30M	●	30000 mm	3.2 - 9.5 mm	1
1505890000	HSS 4.2-12.7 EL W30M	○	30000 mm	4.2 - 12.7 mm	1
1505810000	HSS 4.2-12.7 EL Y30M	●	30000 mm	4.2 - 12.7 mm	1
1505900000	HSS 6.4-19.1 EL W30M	○	30000 mm	6.4 - 19.1 mm	1
1505820000	HSS 6.4-19.1 EL Y30M	●	30000 mm	6.4 - 19.1 mm	1
1505910000	HSS 8.5-25.4 EL W30M	○	30000 mm	8.5 - 25.4 mm	1
1505830000	HSS 8.5-25.4 EL Y30M	●	30000 mm	8.5 - 25.4 mm	1



Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



### HSS-HF... Halogen-free Endless 13 meters

#### Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55 °C...105 °C	90 °C	<b>1426210000</b>	RIBBON HSS HF EL 40/300



#### Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1423330000	HSS-HF 1.2-2.4 EL W13M	White	13000 mm	1.2 - 2.4 mm	1
1423220000	HSS-HF 1.2-2.4 EL Y13M	Yellow	13000 mm	1.2 - 2.4 mm	1
1423340000	HSS-HF 1.6-3.2 EL W13M	White	13000 mm	1.6 - 3.2 mm	1
1423230000	HSS-HF 1.6-3.2 EL Y13M	Yellow	13000 mm	1.6 - 3.2 mm	1
1423350000	HSS-HF 2.4-4.8 EL W13M	White	13000 mm	2.4 - 4.8 mm	1
1423240000	HSS-HF 2.4-4.8 EL Y13M	Yellow	13000 mm	2.4 - 4.8 mm	1
1423360000	HSS-HF 3.2-6.4 EL W13M	White	13000 mm	3.2 - 6.4 mm	1
1423250000	HSS-HF 3.2-6.4 EL Y13M	Yellow	13000 mm	3.2 - 6.4 mm	1
1423370000	HSS-HF 4.8-9.5 EL W13M	White	13000 mm	4.8 - 9.5 mm	1
1423260000	HSS-HF 4.8-9.5 EL Y13M	Yellow	13000 mm	4.8 - 9.5 mm	1
1423380000	HSS-HF 6.4-12.7 EL W13M	White	13000 mm	6.4 - 12.7 mm	1
1423270000	HSS-HF 6.4-12.7 EL Y13M	Yellow	13000 mm	6.4 - 12.7 mm	1

### HSS-HF... Halogen-free Endless 10 meters

#### Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55 °C...105 °C	90 °C	<b>1426210000</b>	RIBBON HSS HF EL 40/300



#### Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1423390000	HSS-HF 9.5-19.1 EL W10M	White	10000 mm	9.5 - 19.1 mm	1
1423280000	HSS-HF 9.5-19.1 EL Y10M	Yellow	10000 mm	9.5 - 19.1 mm	1
1423410000	HSS-HF 12.7-25.4 EL W10M	White	10000 mm	12.7 - 25.4 mm	1
1423290000	HSS-HF 12.7-25.4 EL Y10M	Yellow	10000 mm	12.7 - 25.4 mm	1

**HSS-HF... Halogen-free Endless 30 meters**

**Technical data**

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55 °C...105 °C	90 °C	<b>1426210000</b>	RIBBON HSS HF EL 40/300



**Ordering data**

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1562840000	HSS-HF 1.2-2.4 EL B30M	Blue	30000 mm	1.2 - 2.4 mm	1
1562940000	HSS-HF 1.2-2.4 EL G30M	Green	30000 mm	1.2 - 2.4 mm	1
1562740000	HSS-HF 1.2-2.4 EL R30M	Red	30000 mm	1.2 - 2.4 mm	1
1513240000	HSS-HF 1.2-2.4 EL W30M	White	30000 mm	1.2 - 2.4 mm	1
1513140000	HSS-HF 1.2-2.4 EL Y30M	Yellow	30000 mm	1.2 - 2.4 mm	1
1562850000	HSS-HF 1.6-3.2 EL B30M	Blue	30000 mm	1.6 - 3.2 mm	1
1562950000	HSS-HF 1.6-3.2 EL G30M	Green	30000 mm	1.6 - 3.2 mm	1
1562750000	HSS-HF 1.6-3.2 EL R30M	Red	30000 mm	1.6 - 3.2 mm	1
1513250000	HSS-HF 1.6-3.2 EL W30M	White	30000 mm	1.6 - 3.2 mm	1
1513150000	HSS-HF 1.6-3.2 EL Y30M	Yellow	30000 mm	1.6 - 3.2 mm	1
1562870000	HSS-HF 2.4-4.8 EL B30M	Blue	30000 mm	2.4 - 4.8 mm	1
1562970000	HSS-HF 2.4-4.8 EL G30M	Green	30000 mm	2.4 - 4.8 mm	1
1562770000	HSS-HF 2.4-4.8 EL R30M	Red	30000 mm	2.4 - 4.8 mm	1
1513270000	HSS-HF 2.4-4.8 EL W30M	White	30000 mm	2.4 - 4.8 mm	1
1513170000	HSS-HF 2.4-4.8 EL Y30M	Yellow	30000 mm	2.4 - 4.8 mm	1
1562880000	HSS-HF 3.2-6.4 EL B30M	Blue	30000 mm	3.2 - 6.4 mm	1
1562980000	HSS-HF 3.2-6.4 EL G30M	Green	30000 mm	3.2 - 6.4 mm	1
1562780000	HSS-HF 3.2-6.4 EL R30M	Red	30000 mm	3.2 - 6.4 mm	1
1513280000	HSS-HF 3.2-6.4 EL W30M	White	30000 mm	3.2 - 6.4 mm	1
1513180000	HSS-HF 3.2-6.4 EL Y30M	Yellow	30000 mm	3.2 - 6.4 mm	1
1562890000	HSS-HF 4.8-9.5 EL B 30M	Blue	30000 mm	4.8 - 9.5 mm	1
1562990000	HSS-HF 4.8-9.5 EL G 30M	Green	30000 mm	4.8 - 9.5 mm	1
1562790000	HSS-HF 4.8-9.5 EL R 30M	Red	30000 mm	4.8 - 9.5 mm	1
1513290000	HSS-HF 4.8-9.5 EL W30M	White	30000 mm	4.8 - 9.5 mm	1
1513190000	HSS-HF 4.8-9.5 EL Y30M	Yellow	30000 mm	4.8 - 9.5 mm	1
1562900000	HSS-HF 6.4-12.7 EL B30M	Blue	30000 mm	6.4 - 12.7 mm	1
1563020000	HSS-HF 6.4-12.7 EL G30M	Green	30000 mm	6.4 - 12.7 mm	1
1562800000	HSS-HF 6.4-12.7 EL R30M	Red	30000 mm	6.4 - 12.7 mm	1
1513300000	HSS-HF 6.4-12.7 EL W30M	White	30000 mm	6.4 - 12.7 mm	1
1513200000	HSS-HF 6.4-12.7 EL Y30M	Yellow	30000 mm	6.4 - 12.7 mm	1
1562920000	HSS-HF 9.5-19.1 EL B30M	Blue	30000 mm	9.5 - 19.1 mm	1
1563030000	HSS-HF 9.5-19.1 EL G30M	Green	30000 mm	9.5 - 19.1 mm	1
1562820000	HSS-HF 9.5-19.1 EL R30M	Red	30000 mm	9.5 - 19.1 mm	1
1513320000	HSS-HF 9.5-19.1 EL W30M	White	30000 mm	9.5 - 19.1 mm	1
1513220000	HSS-HF 9.5-19.1 EL Y30M	Yellow	30000 mm	9.5 - 19.1 mm	1
1562930000	HSS-HF 12.7-25.4 EL B30M	Blue	30000 mm	12.7 - 25.4 mm	1
1563040000	HSS-HF 12.7-25.4 EL G30M	Green	30000 mm	12.7 - 25.4 mm	1
1562830000	HSS-HF 12.7-25.4 EL R30M	Red	30000 mm	12.7 - 25.4 mm	1
1513330000	HSS-HF 12.7-25.4 EL W30M	White	30000 mm	12.7 - 25.4 mm	1
1513230000	HSS-HF 12.7-25.4 EL Y30M	Yellow	30000 mm	12.7 - 25.4 mm	1

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Printers and accessories

MultiMark

Order No.	Type	Explanation
2430920000	THM MMP	Included: power cable type E+F, UK power cord, US power cord, USB cable, 114 mm ribbon core, print cylinder for connector markers, M-Print® PRO software on DVD, RIBBON MM 110/360 SW, RIBBON MM-TB 25/360 SW



THM PLUS M

Order No.	Type	Explanation
2448870000	THM PLUS M	Included: power cable type E+F, UK power cord, US power cord, USB cable, 114 mm ribbon core, M-Print® PRO software on DVD, RIBBON MM 110/360 SW



Cutting blade

Order No.	Type	Explanation
1331600000	THM MMP CUTTER	Optional cutting knife for use with continuous labels with the THM MMP printer
1416330000	THM MMP PERFORATOR	Optional perforation cutter for the use of endless heat shrinks with the THM MMP printer
1540770000	THM PLUS M PERFORATOR	Optional perforation cutter for the use of endless heat shrinks with the THM PLUS M printer



Ink ribbons

Order No.	Type	Colour	Width	Length
2005090000	RIBBON MM-TB 25/360 SW	● Black	25 mm	360 m
2005070000	RIBBON MM 110/360 SW	● Black	110 mm	360 m
2005080000	RIBBON MM 80/360 SW	● Black	80 mm	360 m
2005040000	RIBBON MM 80/300 WS	○ White	110 mm	300 m
1426210000	RIBBON HSS HF EL 40/300	● Black	40 mm	300 m
2448880000	RIBBON MM-HS 60/300 SW	● Black	60 mm	300 m



External roll holder for THM MMP

Order No.	Type	Explanation
1302920000	THM MMP EXT,RH	Required for reel lengths of 30 metres



Trolley case for THM MMP

Order No.	Type	Explanation
2457760000	THM MMP CASE	Mobile and light: the THM MMP trolley case with compartments for accessories.



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Printers and accessories

PrintJet ADVANCED and THM MMP set

Order No.	Type	Explanation
2467350000	THM MMP - PJA SET	The perfect printer package: PrintJet ADVANCED incl. M-Print® PRO software and our thermotransfer printer THM MMP in one set.



Technical data

Machinery



Process



Energy



Transportation



Device  
Manufacturers



2-pole voltage testers

VT CTB

2-pole voltage tester for cars



- Test probe
- Pin with sliding mechanism
- Cable length 130 cm
- Polarity detection

VT

2-pole voltage tester



- LED display for voltage and polarity
- Works without batteries
- Impact-resistant housing
- One-handed operation for sockets

Technical data

Nominal voltage
Display
Frequency range, min.
Measuring range category
Protection degree
Approvals
Weight
Note

<b>VT CTB</b>
5 V AC/DC...48 V DC
LED
0...65 Hz
IP40
EN 61010-1, EN 61326
50 g
Note

<b>VT</b>
12 V AC/DC...690 V AC/DC
LED
0...65 Hz
CAT III 600 V, CAT IV 300 V
IP64
EN/ IEC 61010, EN 61243-3 2010
115 g
Note

Ordering data

Version
Note

Type	Qty.	Order No.
CAR-CHECK	1	9918970000
Note		

Type	Qty.	Order No.
Volt-Check 3.1	1	9918950000
Note		

Accessories

Note
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Type	Qty.	Order No.
SKAI TASCHÉ	1	9201520000
BATTERIE 1,5V MICRO	2	9201310000
Note		

Type	Qty.	Order No.
SKAI TASCHÉ	1	9201520000
BATTERIE 1,5V MICRO	2	9201310000
Note		



Non-contact voltage testers

VT CL

Non-contact voltage tester



- Overvoltage category CAT IV 1000 V
- Visible and acoustic voltage display
- Water-resistant and robust housing

VT LCL

Non-contact voltage tester



- Overvoltage category CAT IV 1000 V
- Visible and acoustic voltage display
- Integrated flashlight
- Two selectable voltage levels / sensitivity ranges
- Including battery monitoring

Technical data

Nominal voltage
Display
Protection degree
Measuring range category
Battery type
Approvals
Weight
<b>Note</b>

<b>VT CL</b>
50 V...1000 V AC/DC
Visual & acoustic
IP65
CAT IV 1000 V
1.5 V type AAA battery
DIN EN 61010-1, DIN EN 61326
60 g

<b>VT LCL</b>
12 V AC/DC...1000 V AC/DC
Visual & acoustic
IP65
CAT IV 1000 V
1.5 V type AAA battery
DIN EN 61010-1, DIN EN 61326
60 g

Ordering data

<b>Version</b>
<b>Note</b>

Type	Qty.	Order No.
VT CL	1	2436660000

Type	Qty.	Order No.
VT LCL	1	2436670000

Accessories

<b>Note</b>
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Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000

Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Continuity testers and non-contact magnetic field testers

VT M

Non-contact magnetic field tester



- Integrated flashlight
- Magnetic field displayed with a red LED
- Water-resistant and robust housing
- Including battery monitoring

VT CTL

Continuity tester



- Flashlight function with continuous light
- Visual and acoustic feed-through
- Resistant to interference voltage

Technical data

Display
Protection degree
Battery type
Approvals
Weight
Note

<b>VT M</b>
Visual & acoustic
IP65
1.5 V type AAA battery
DIN EN 61010-1, DIN EN 61326
60 g
Note

<b>VT CTL</b>
Visual & acoustic
IP44
1.5 V type AAA battery
DIN EN 61010-1
140 g
Note

Ordering data

Version
Note

Type	Qty.	Order No.
VT M	1	2436680000
Note		

Type	Qty.	Order No.
VT CTL	1	2436690000
Note		

Accessories

Note
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Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000
Note		

Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000
Note		

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers



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Machinery  
Process  
Energy  
Transportation  
Device Manufacturers



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HDC MHP100 M 25	1435770000	T.134	HDC-CHE-BM2.5AU	1651500000	T.137	HS-HF 1.6-3.2/50 MM W	2437890000	T.166
HDC MHP100 M 35	1435780000	T.134	HDC-CHE-BM4.0AG	1201500000	T.137	HS-HF 1.6-3.2/50 MM Y	2437900000	T.166
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HDC XX5E01 FOXXXX-0100	2003920100	T.146	HDC-CHE-BM4.0AU	1651510000	T.140	HS-HF 1.9-5.38/1/50 MM W	2437970000	T.166
HDC XX5E01 MFSXXXX-0050	2453550050	T.146	HDC-CHE-BM4.0AU	1651510000	T.137	HS-HF 1.9-5.38/1/50 MM Y	2437980000	T.166
HDC XX5E01 MFSXXXX-0100	2453550100	T.146	HDC-CHE-BM4.65AU	1116530000	T.138	HS-HF 2.4-4.8/25 MM W	2437990000	T.166
HDC XX5E01 MFSXXXX-0150	2453550150	T.146	HDC-CHE-BM4.65AU	1116530000	T.139	HS-HF 2.4-4.8/25 MM Y	2438000000	T.166
HDC XX5E01 MFSXXXX-0300	2453550300	T.146	HDC-CHE-BM4.65AU	1116530000	T.140	HS-HF 2.4-4.8/50 MM W	2438010000	T.166
HDC XX5E01 MFSXXXX-0500	2453550500	T.146	HDC-CHE-SM0.5AG	1200500000	T.137	HS-HF 2.4-4.8/50 MM Y	2438020000	T.166
HDC XX5E01 MMSM12D-0100	2451110100	T.146	HDC-CHE-SM0.5AG	1200500000	T.138	HS-HF 3.2-6.4/25 MM W	2438030000	T.166
HDC XX5E01 MMSRJ45-0100	2454090100	T.146	HDC-CHE-SM0.5AG	1200500000	T.139	HS-HF 3.2-6.4/25 MM Y	2438040000	T.166
HDC XX5E01 MOXXXX-0100	2003890100	T.146	HDC-CHE-SM0.5AG	1200500000	T.140	HS-HF 3.2-6.4/50 MM W	2438050000	T.166
HDC XX6A01 FMSM12X-0100	2451140100	T.147	HDC-CHE-SM0.5AU	1651420000	T.137	HS-HF 3.2-6.4/50 MM Y	2438060000	T.166
HDC XX6A01 FMSRJ45-0100	2451100100	T.147	HDC-CHE-SM0.5AU	1651420000	T.138	HS-HF 4.8-9.5/25 MM W	2438070000	T.166
HDC XX6A01 FOXXXX-0100	2003850100	T.147	HDC-CHE-SM0.5AU	1651420000	T.139	HS-HF 4.8-9.5/25 MM Y	2438080000	T.166
HDC XX6A01 MFSXXXX-0050	2453540050	T.147	HDC-CHE-SM0.5AU	1651420000	T.140	HS-HF 4.8-9.5/50 MM W	2438090000	T.166
HDC XX6A01 MFSXXXX-0100	2453540100	T.147	HDC-CHE-SM0.75-1.00AG	1200600000	T.137	HS-HF 4.8-9.5/50 MM Y	2438100000	T.166
HDC XX6A01 MFSXXXX-0150	2453540150	T.147	HDC-CHE-SM0.75-1.00AG	1200600000	T.138	HS-HF 6.4-12.7/25 MM W	2438110000	T.166
HDC XX6A01 MFSXXXX-0300	2453540300	T.147	HDC-CHE-SM0.75-1.00AG	1200600000	T.139	HS-HF 6.4-12.7/25 MM Y	2438120000	T.166
HDC XX6A01 MFSXXXX-0500	2453540500	T.147	HDC-CHE-SM0.75-1.00AG	1200600000	T.140	HS-HF 6.4-12.7/50 MM W	2438130000	T.166
HDC XX6A01 MMSM12X-0100	2451130100	T.147	HDC-CHE-SM0.75-1.00AU	1651430000	T.137	HS-HF 6.4-12.7/50 MM Y	2438140000	T.166
HDC XX6A01 MMSRJ45-0100	2451090100	T.147	HDC-CHE-SM0.75-1.00AU	1651430000	T.138	HS-HF 9.5-19.1/25 MM W	2438150000	T.166
HDC XX6A01 MOXXXX-0100	2003820100	T.147	HDC-CHE-SM0.75-1.00AU	1651430000	T.139	HS-HF 9.5-19.1/25 MM Y	2438160000	T.166
HDC CHD-BM0.14-0.37AG	1651570000	T.141	HDC-CHE-SM0.75-1.00AU	1651430000	T.140	HS-HF 9.5-19.1/50 MM W	2438170000	T.166
HDC CHD-BM0.14-0.37AU	1651570000	T.141	HDC-CHE-SM1.5AG	1200700000	T.137	HS-HF 9.5-19.1/50 MM Y	2438180000	T.166
HDC CHD-BM0.14-0.37AU	1651670000	T.141	HDC-CHE-SM1.5AG	1200700000	T.138	HSS 0.8-2.4 EL W13M	1489620000	T.167
HDC CHD-BM0.14-0.37AU	1651670000	T.142	HDC-CHE-SM1.5AG	1200700000	T.139	HSS 0.8-2.4 EL W30M	1505840000	T.167
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HDC CHD-BM0.5AG	1651580000	T.142	HDC-CHE-SM1.5AU	1651440000	T.137	HSS 0.8-2.4 EL Y30M	1505760000	T.167
HDC CHD-BM0.5AU	1651680000	T.141	HDC-CHE-SM1.5AU	1651440000	T.138	HSS 1.0-3.2 EL W13M	1489630000	T.167
HDC CHD-BM0.5AU	1651680000	T.142	HDC-CHE-SM1.5AU	1651440000	T.139	HSS 1.0-3.2 EL W30M	1505850000	T.167
HDC CHD-BM0.75-1.00AG	1601760000	T.141	HDC-CHE-SM1.5AU	1651440000	T.140	HSS 1.0-3.2 EL Y13M	1489540000	T.167
HDC CHD-BM0.75-1.00AG	1601760000	T.142	HDC-CHE-SM2.5AG	1200800000	T.137	HSS 1.0-3.2 EL Y30M	1505770000	T.167
HDC CHD-BM0.75-1.00AU	1651690000	T.141	HDC-CHE-SM2.5AG	1200800000	T.138	HSS 1.6-4.8 EL W13M	1489640000	T.167
HDC CHD-BM0.75-1.00AU	1651690000	T.142	HDC-CHE-SM2.5AG	1200800000	T.139	HSS 1.6-4.8 EL W30M	1505860000	T.167
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HDC CHD-BM1.5AG	1651600000	T.142	HDC-CHE-SM2.5AU	1651450000	T.137	HSS 1.6-4.8 EL Y30M	1505780000	T.167
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HDC CHD-BM2.5AG	1651610000	T.142	HDC-CHE-SM4.0AG	1200900000	T.137	HSS 2.1-6.4 EL Y30M	1505790000	T.167
HDC CHD-BM2.5AU	1651710000	T.141	HDC-CHE-SM4.0AG	1200900000	T.138	HSS 3.2-9.5 EL W13M	1489660000	T.167
HDC CHD-BM2.5AU	1651710000	T.142	HDC-CHE-SM4.0AG	1200900000	T.139	HSS 3.2-9.5 EL W30M	1505880000	T.167
HDC CHD-SM0.14-0.37AG	1651520000	T.141	HDC-CHE-SM4.0AG	1200900000	T.140	HSS 3.2-9.5 EL Y13M	1489570000	T.167
HDC CHD-SM0.14-0.37AG	1651520000	T.142	HDC-CHE-SM4.0AU	1651460000	T.137	HSS 3.2-9.5 EL Y30M	1505890000	T.167
HDC CHD-SM0.14-0.37AU	1651620000	T.141	HDC-CHE-SM4.0AU	1651460000	T.138	HSS 4.2-12.7 EL W13M	1489670000	T.167
HDC CHD-SM0.14-0.37AU	1651620000	T.142	HDC-CHE-SM4.0AU	1651460000	T.139	HSS 4.2-12.7 EL W30M	1505890000	T.167
HDC CHD-SM0.5AG	1651530000	T.141	HDC-CHE-SM4.0AU	1651460000	T.140	HSS 4.2-12.7 EL Y13M	1489580000	T.167
HDC CHD-SM0.5AG	1651530000	T.142	HDC-CHE-SM4.65AU	1116540000	T.137	HSS 4.2-12.7 EL Y30M	1505890000	T.167
HDC CHD-SM0.5AU	1651630000	T.141	HDC-CHE-SM4.65AU	1116540000	T.138	HSS 6.4-19.1 EL W13M	1489680000	T.167
HDC CHD-SM0.5AU	1651630000	T.142	HDC-CHE-SM4.65AU	1116540000	T.139	HSS 6.4-19.1 EL W30M	1505900000	T.167
HDC CHD-SM0.75-1.00AG	1601750000	T.141	HDC-CHE-SM4.65AU	1116540000	T.140	HSS 6.4-19.1 EL Y13M	1489590000	T.167
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HDC CHD-SM0.75-1.00AU	1651640000	T.141	HS 0.8-2.4/25 MM Y	2437480000	T.165	HSS 8.5-25.4 EL W30M	1505830000	T.167
HDC CHD-SM0.75-1.00AU	1651640000	T.142	HS 0.8-2.4/50 MM W	2437490000	T.165	HSS 8.5-25.4 EL Y30M	1505830000	T.167
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HDC CHD-SM1.5AG	1651550000	T.142	HS 1.0-3.2/25 MM W	2437510000	T.165	HSS-HF 1.2-2.4 EL G30M	1562940000	T.169
HDC CHD-SM1.5AU	1651650000	T.141	HS 1.0-3.2/25 MM Y	2437520000	T.165	HSS-HF 1.2-2.4 EL R30M	1562740000	T.169
HDC CHD-SM1.5AU	1651650000	T.142	HS 1.0-3.2/50 MM W	2437530000	T.165	HSS-HF 1.2-2.4 EL W13M	1423330000	T.168
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HDC CHD-SM2.5AU	1651660000	T.142	HS 1.6-4.8/50 MM W	2437570000	T.165	HSS-HF 1.6-3.2 EL B30M	1562850000	T.169
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2453740000	LUF 10.00/07/90V 5.OSN BK BX	T.152
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2455250150	SAIL-M12GM12G-K-1.5P	T.127
2455250300	SAIL-M12GM12G-K-3.0P	T.127
2455250500	SAIL-M12GM12G-K-5.0P	T.127
2455251000	SAIL-M12GM12G-K-10P	T.127
2455260150	SAIL-M12GM12G-L-1.5P	T.125
2455260300	SAIL-M12GM12G-L-3.0P	T.125
2455260500	SAIL-M12GM12G-L-5.0P	T.125
2455261000	SAIL-M12GM12G-L-10P	T.125
2455270150	SAIL-M12GM12W-K-1.5P	T.127
2455270300	SAIL-M12GM12W-K-3.0P	T.127
2455270500	SAIL-M12GM12W-K-5.0P	T.127
2455271000	SAIL-M12GM12W-K-10P	T.127
2455280150	SAIL-M12GM12W-L-1.5P	T.125
2455280300	SAIL-M12GM12W-L-3.0P	T.125
2455280500	SAIL-M12GM12W-L-5.0P	T.125
2455281000	SAIL-M12GM12W-L-10P	T.125
2455290150	SAIL-M12WM12W-K-1.5P	T.127
2455290300	SAIL-M12WM12W-K-3.0P	T.127
2455290500	SAIL-M12WM12W-K-5.0P	T.127
2455291000	SAIL-M12WM12W-K-10P	T.127
2455300150	SAIL-M12WM12W-L-1.5P	T.125
2455300300	SAIL-M12WM12W-L-3.0P	T.125
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2455301000	SAIL-M12WM12W-L-10P	T.125
2455310150	SAIL-M12WM12G-K-1.5P	T.127
2455310300	SAIL-M12WM12G-K-3.0P	T.127
2455310500	SAIL-M12WM12G-K-5.0P	T.127
2455311000	SAIL-M12WM12G-K-10P	T.127
2455320150	SAIL-M12WM12G-L-1.5P	T.125
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2476700000	DRIKIT 110VDC 100 LD	T.95
2476710000	DRIKIT 24VAC 100 LD	T.95
2476720000	DRIKIT 115VAC 100 LD	T.95
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2476740000	DRIKIT 12VDC 100 LD/PB	T.95
2476750000	DRIKIT 24VDC 100 LD/PB	T.95
2476760000	DRIKIT 48VDC 100 LD/PB	T.95
2476770000	DRIKIT 110VDC 100 LD/PB	T.95
2476780000	DRIKIT 24VAC 100 LD/PB	T.95
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