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Lightning/surge protective device for 2-pos. isolated 1000 V DC voltage systems, for DIN rail mounting, 4-pos. base element with remote indication contact, four plug-in temperature-monitored protective elements, status message on each plug.

### Your advantages

- ☑ Increased operational safety, thanks to a high short-circuit current rating
- ☑ Protection against mismatching, thanks to keyed plugs and base elements
- High system availability, thanks to a high-performance protective circuit
- ☑ Easy replacement during servicing, thanks to consistently pluggable protective devices



## **Key Commercial Data**

Packing unit	32 pc
Minimum order quantity	32 pc
GTIN	4 055626 621104
GTIN	4055626621104
Weight per Piece (excluding packing)	512.330 g
Custom tariff number	85363030
Country of origin	Germany
Note	Made to Order (non-returnable)

### Technical data

#### **Dimensions**

Height	98.7 mm
Width	71.2 mm
Depth	65.7 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	4 Div.

#### Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)



# Technical data

## Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 3000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5-500 Hz/2.5 h/XYZ)

### General

IEC test classification	PV I / II
	PV T1 / T2
EN type	T1 / T2
SPD failure behavior	OCM (Open-circuit mode)
Connection configuration	Y configuration
Installation location	Interior zone
Accessibility	Accessible
Installation location of the disconnect device	Internal
Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6-FR
	PBT-FR
Degree of pollution	2
Distance between live and grounded parts	8 mm
Flammability rating according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Surge protection fault message	Optical, remote indicator contact

# Additional descriptions

Note	The device is intended for touch proof installation in a housing. Ensure that there is a gap of at least 8 mm between the active and grounded parts in the connection area.
	parts in the connection area.

# Protective circuit DC voltage side (DC)

Maximum continuous operating voltage U <sub>CPV</sub>	1170 V DC
Short-circuit current rating I <sub>SCPV</sub>	2000 A
Continuous operating current I <sub>CPV</sub>	< 20 µA
Rated load current I <sub>L</sub>	80 A
Residual current I <sub>PE</sub>	≤ 40 µA DC
	≤ 700 μA AC
Standby power consumption P <sub>C</sub>	≤ 25 mVA



## Technical data

# Protective circuit DC voltage side (DC)

Nominal discharge current (8/20) µs	15 kA
Maximum discharge current I <sub>max</sub> (8/20) μs	40 kA
Impulse discharge current (10/350) μs, charge	2.5 As
Impulse discharge current (10/350) μs, specific energy	6.25 kJ/Ω
Impulse discharge current (10/350) μs, peak value l <sub>imp</sub>	5 kA
Total discharge current I <sub>total</sub> (8/20) μs	40 kA
Total discharge current I <sub>total</sub> (10/350) μs	10 kA
Response time t <sub>A</sub>	≤ 25 ns
Insulation resistance R <sub>iso</sub>	> 5 GΩ (at 500 V DC)

## Indicator/remote signaling

Switching function	PDT contact
Operating voltage	5 V AC 250 V AC
	30 V DC
Operating current	5 mA AC 1.5 A AC
	1 A DC
Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section solid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

## Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1,5 mm² 16 mm²)
	4.5 Nm (25 mm² 35 mm²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section solid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 16 mm²

## Standards and Regulations

Standards/regulations EN 50539-11 2013
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## **Environmental Product Compliance**

China RoHS	Environmentally Friendly Use Period = 50
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## Technical data

## **Environmental Product Compliance**

	or details about hazardous substances go to tab "Downloads", ategory "Manufacturer's declaration"
Ca	alegory manufacturer's declaration

### Classifications

## eCl@ss

eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130802
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

#### **ETIM**

ETIM 5.0	EC000381
ETIM 6.0	EC000381
ETIM 7.0	EC000381

### Accessories

### Accessories

### Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm

### Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, Horizontal: Grounding symbol, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm



### Accessories

Marker for terminal blocks - ZBN 18.LGS:L1-N.ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, GND, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm

### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

## Spare parts

Type 1/2 surge protection plug - VAL-MS-T1/T2 1000DC-PV-ST - 2801162



Replacement plug for PV arrester combinations from the VAL-MS-T1/T2 1000DC-PV-... product range

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