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Surge arrester for 2-pos. isolated 600 V DC voltage systems, for DIN rail mounting, 3-pos. base element, three plug-in temperature-monitored protective elements, status message on each plug.

Why buy this product

- ☑ Increased safety, thanks to compliance with standard EN 50539-11
- ☑ Reliable contact, thanks to integrated rotating latch
- Optimum inverter protection, thanks to low protection level
- Efficient replacement of defective plugs, thanks to visual status indicator
- Protection against mismatching, thanks to keyed plugs and base elements
- ☑ Always the right arrester, thanks to universal type 1/type 2 protective components



Key Commercial Data

| Packing unit | 1 STK |
|--------------------------------------|-----------------|
| GTIN | 4 046356 614979 |
| GTIN | 4046356614979 |
| Weight per Piece (excluding packing) | 320.000 g |
| Custom tariff number | 85363010 |
| Country of origin | Germany |

Technical data

Dimensions

| Height | 89.8 mm |
|--------|---------|
| Width | 53.4 mm |



Technical data

Dimensions

| Depth | 65.7 mm (incl. DIN rail 7.5 mm) |
|------------------|---------------------------------|
| Horizontal pitch | 3 Div. |

Ambient conditions

| Degree of protection | IP20 (only when all terminal points are used) |
|---|---|
| Ambient temperature (operation) | -40 °C 80 °C |
| Ambient temperature (storage/transport) | -40 °C 80 °C |
| Altitude | ≤ 2000 m (amsl (above mean sea level)) |
| Permissible humidity (operation) | 5 % 95 % |
| Shock (operation) | 60g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z) |
| Vibration (operation) | 7.5g (5-500 Hz/2.5 h/XYZ) |

General

| IEC test classification | PV II |
|--|---|
| | PV T2 |
| EN type | T2 |
| SPD failure behavior | OCM (Open-circuit mode) |
| Connection configuration | Y configuration |
| Installation location | Inside |
| Accessibility | Accessible |
| Installation location of the disconnect device | Internal |
| Mode of protection | (L+) - (L-) |
| | (L+) - PE |
| | (L-) - 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 |

Additional descriptions

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

Protective circuit DC voltage side (DC)



Technical data

Protective circuit DC voltage side (DC)

| Maximum continuous operating voltage U _{CPV} | 800 V DC |
|---|------------------------------------|
| Open circuit voltage U _{OCSTC} | ≤ 670 V DC |
| Short-circuit current rating I _{SCPV} | 2000 A |
| Continuous operating current I _{CPV} | 20 μΑ |
| Rated load current I _L | 80 A |
| Residual current I _{PE} | ≤ 20 µA DC |
| | ≤ 300 µA AC |
| Standby power consumption P _C | ≤ 20 mVA |
| Nominal discharge current (8/20) µs | 15 kA |
| Maximum discharge current I _{max} (8/20) μs | 40 kA |
| Total discharge current I _{total} (8/20) μs | 40 kA |
| Voltage protection level U _p | ≤ 2.7 kV |
| Residual voltage U _{res} | \leq 2.7 kV (at I _n) |
| | ≤ 2.2 kV (at 5 kA) |
| | ≤ 2.5 kV (at 10 kA) |
| | ≤ 2.9 kV (at 20 kA) |
| | ≤ 3.4 kV (at 30 kA) |
| | ≤ 3.8 kV (at 40 kA) |
| Response time t _A | ≤ 25 ns |
| Insulation resistance R _{iso} | > 5 GΩ (at 500 V DC) |

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 |

UL specifications

| SPD Type | 1 |
|---|-------------|
| Maximum continuous operating voltage MCOV | 800 V DC |
| Nominal voltage | 800 V DC |
| Mode of protection | (L+) - (L-) |



Technical data

UL specifications

| • | |
|--|----------|
| | (L+) - G |
| | (L-) - G |
| Power distribution system | DC PV |
| Voltage protection rating VPR | 2 kV |
| Nominal discharge current I _n | 20 kA |
| Short-circuit current rating (SCCR) | 50 kA |

UL connection data

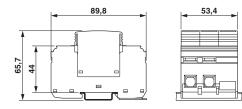
| Conductor cross section AWG | 10 2 |
|-----------------------------|------------------------|
| Tightening torque | 30 lb _r in. |

Standards and Regulations

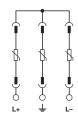
| | 1 |
|-----------------------|------------------|
| Standards/regulations | EN 50539-11 2013 |

Drawings

Dimensional drawing



Circuit diagram



Classifications

eCl@ss

| eCl@ss 4.0 | 27140201 |
|------------|------------|
| eci@ss 4.0 | 27 14020 1 |
| eCl@ss 4.1 | 27130801 |
| eCl@ss 5.0 | 27130801 |
| eCl@ss 5.1 | 27130800 |
| eCl@ss 6.0 | 27130800 |
| eCl@ss 7.0 | 27130805 |
| eCl@ss 8.0 | 27130805 |
| eCl@ss 9.0 | 27130805 |

ETIM

| ETIM 3.0 | EC000941 |
|----------|----------|



Classifications

| ETIM 4.0 | EC000941 |
|----------|----------|
| ETIM 5.0 | EC000941 |
| ETIM 6.0 | EC000941 |

UNSPSC

| UNSPSC 6.01 | 30212010 |
|---------------|----------|
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11 | 39121610 |
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2 | 39121620 |

Approvals

Approvals

Approvals

KEMA-KEUR / EAC / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

| KEMA-KEUR | KEMA | http://www.dekra-certification.com | 71-102960 |
|-----------|------|------------------------------------|-----------|
| | | | |

EAC RU C-DE.A*30.B01561

UL Listed http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 330181

cUL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 330181



Approvals

cULus Listed



Accessories

Accessories

Bridge

Wiring bridge - MPB F200X16/ 1GS - 2818339



Wiring bridge flexible, diameter 16 mm², with a fork-type cable lug on one side, length: 200 mm

Wiring bridge - MPB F400X16/ 1GS - 2818342



Wiring bridge flexible, diameter 16 mm², with a fork-type cable lug on one side, length: 400 mm

Wiring bridge - MPB F600X16/ 1GS - 2818355



Wiring bridge flexible, diameter: 16 mm², with a fork-type cable lug on one side, length: 600 mm

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



Accessories

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

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 2 surge protection plug - VAL-MS 600DC-PV-ST - 2800623



Replacement plug for PV arrester combinations from the VAL-MS 600DC-PV-... product range

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