

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Surge protective device, four channel with remote indicator contact for 277/480 V AC, 4-wire plus ground.

Why buy this product

- With floating remote indication contact
- Mechanical coding of all slots
- Multi-channel type 2 arresters



Key Commercial Data

| Packing unit | 1 STK |
|--------------------------------------|-----------------|
| GTIN | 4 055626 445137 |
| GTIN | 4055626445137 |
| Weight per Piece (excluding packing) | 280.000 g |
| Custom tariff number | 85363030 |
| Country of origin | Germany |

Technical data

Dimensions

| Height | 98.7 mm |
|------------------|---------|
| Width | 71.2 mm |
| Depth | 65.5 mm |
| Horizontal pitch | 4 Div. |

Ambient conditions



Technical data

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) | 25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z) |
| Vibration (operation) | 5g (10 500 Hz / 2.5 h / X, Y, Z) |

General

| IEC test classification | II |
|----------------------------------------|-----------------------------------------|
| | T2 |
| EN type | T2 |
| IEC power supply system | TN-S |
| | TT |
| Mode of protection | L-N |
| | L-PE |
| | N-PE |
| Mounting type | DIN rail: 35 mm |
| Color | jet black RAL 9005 |
| Housing material | PA 6.6 |
| | PBT |
| Degree of pollution | 2 |
| Flammability rating according to UL 94 | V-0 |
| Туре | DIN rail module, two-section, divisible |
| Number of positions | 4 |
| Surge protection fault message | Optical, remote indicator contact |

Protective circuit

| Nominal voltage U _N | 277/480 V AC (TN-S/TT) |
|-----------------------------------------------------------|------------------------|
| Nominal frequency f _N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U _C (L-N) | 385 V AC |
| Maximum continuous voltage U _C (N-PE) | 305 V AC |
| Residual current I _{PE} | ≤ 5 μA |
| Nominal discharge current I _n (8/20) µs | 20 kA |
| Maximum discharge current I _{max} (8/20) μs | 40 kA |
| Follow current interrupt rating I _{fi} (N-PE) | 100 A (305 V AC) |
| Short-circuit current rating I _{SCCR} | 25 kA |
| Voltage protection level U _p (L-N) | ≤ 2 kV |



Technical data

Protective circuit

| Voltage protection level U _p (L-PE) | ≤ 2.2 kV |
|------------------------------------------------|----------------------------------------|
| Voltage protection level U _p (N-PE) | ≤ 1.5 kV |
| Residual voltage U _{res} (L-N) | \leq 2 kV (at I _n) |
| | ≤ 1.7 kV (at 10 kA) |
| | ≤ 1.5 kV (at 5 kA) |
| | ≤ 1.3 kV (at 3 kA) |
| Residual voltage U _{res} (L-PE) | \leq 2.2 kV (at I _n) |
| | ≤ 1.7 kV (at 10 kA) |
| | ≤ 1.5 kV (at 5 kA) |
| | ≤ 1.4 kV (at 3 kA) |
| Residual voltage U _{res} (N-PE) | \leq 0.4 kV (at I _n) |
| | ≤ 0.25 kV (at 10 kA) |
| | ≤ 0.15 kV (at 5 kA) |
| | ≤ 0.1 kV (at 3 kA) |
| TOV behavior at U _T (L-N) | 480 V AC (5 s / withstand mode) |
| | 530 V AC (120 min / safe failure mode) |
| TOV behavior at U _T (N-PE) | 1200 V AC (200 ms / withstand mode) |
| Max. backup fuse with branch wiring | 125 A (gG) |

Indicator/remote signaling

| Switching function | PDT contact |
|----------------------------------|---------------------------------------|
| Operating voltage | 5 V AC 250 V AC |
| | 30 V DC |
| Operating current | 5 mA AC 750 mA 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 mm ² 16 mm ²) |
| | 4.5 Nm (25 mm² 35 mm²) |



Technical data

Connection data

| 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

| 1 |
|--------------|
| 750 V AC |
| 385 V AC |
| 385 V AC |
| 305 V AC |
| 277/480 V AC |
| L-L |
| L-N |
| L-G |
| N-G |
| 3Y |
| 50/60 Hz |
| 2500 V |
| 1500 V |
| 2000 V |
| 1200 V |
| 20 kA |
| 40 kA |
| 200 kA |
| |

UL indicator/remote signaling

| Operating voltage | 125 V AC |
|-----------------------------|--------------------------------------------|
| Operating current | 1 A AC |
| Tightening torque | 2 lb _r in 4 lb _r in. |
| Conductor cross section AWG | 30 14 |

UL connection data

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

Standards and Regulations



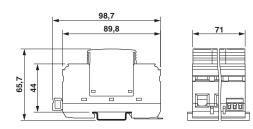
Technical data

Standards and Regulations

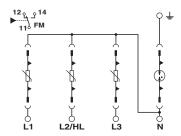
| Standards/regulations | IEC 61643-11 2011 |
|-----------------------|-------------------|
| | EN 61643-11 2012 |

Drawings

Dimensional drawing



Circuit diagram



Classifications

eCl@ss

| eCl@ss 7.0 | 27130805 |
|------------|----------|
| eCl@ss 8.0 | 27130805 |
| eCl@ss 9.0 | 27130805 |

ETIM

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

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details



Approvals

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

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

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

Accessories

Accessories

Bridge

Wiring bridge - MPB F600X16/ 1GS - 2818355



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

Wiring bridge - MPB F200X16/ 1GS - 2818339



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



Accessories

Wiring bridge - MPB 18/1-10/1.0.0 - 2830443



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 10 pitches with contact sequence 1-0-0

Wiring bridge - MPB 18/4-12 - 2809296



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 12-pos.

Wiring bridge - MPB 18/4- 8 - 2809283



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 8-pos.

Wiring bridge - MPB 18/3- 6 - 2809241



Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 6-pos.

Wiring bridge - MPB 18/1-57 - 2809238



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.



Accessories

Wiring bridge - MPB 18/1-12 - 2748593



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.

Wiring bridge - MPB 18/1- 9 - 2748580



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.

Wiring bridge - MPB 18/1-8 - 2748577



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.

Wiring bridge - MPB 18/1- 6 - 2748564



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.

Wiring bridge - MPB 18/1- 4 - 2809225



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.



Accessories

Wiring bridge - MPB 18/1- 3 - 2809212



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 3-pos.

Wiring bridge - MPB 18/1- 2 - 2809209



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.

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

Feed-through terminal block

Feed-through terminal block - DK-BIC-35 - 2749880



Feed-through terminal block for VAL and FLT applications

Labeled device marker



Accessories

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-US-277/40-P - 2910338



Type 2 surge protection plug with a varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 750 V AC

Type 2 surge protection plug - GDT-US-NG/40-P - 2910342



Surge protection plug type 2, with N-PE total current spark gap for base element.



Accessories

Phoenix Contact 2018 © - all rights reserved http://www.phoenixcontact.com