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Surge protective device, three channel with remote indicator contact for 240/480 V split phase AC, 3-wire plus ground.

Your advantages

- ☑ With floating remote indication contact
- Optical, mechanical status indication for the individual arresters
- Mechanical coding of all slots
- Multi-channel type 2 arresters



Key Commercial Data

Packing unit	1 pc
GTIN	4 0 5 5 6 2 6 4 4 5 0 4 5
GTIN	4055626445045
Weight per Piece (excluding packing)	380.000 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	98.7 mm
Width	53.4 mm
Depth	65.5 mm
Horizontal pitch	3 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	\leq 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
	N-PE
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6
	РВТ
Degree of pollution	2
Flammability rating according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact

Protective circuit

Nominal voltage U _N	240/480 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 operating voltage U_{c} (L-PE)	385 V AC
Maximum continuous voltage U _c (N-PE)	305 V AC
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)	\leq 2 kV
Voltage protection level U _p (L-PE)	≤ 2.2 kV

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Technical data

Protective circuit

Voltage protection level U _p (N-PE)	≤ 1.5 kV
Residual voltage U _{res} (L-N)	$\leq 2 \text{ kV} (\text{at } I_n)$
	≤ 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)	415 V AC (5 s / withstand mode)
	440 V AC (120 min / withstand mode)
TOV behavior at U_T (N-PE)	1200 V AC (200 ms / withstand mode)
Response time t _A (L-N)	≤ 25 ns
Response time t _A (L-PE)	≤ 100 ns
Response time t _A (N-PE)	≤ 100 ns
Max. backup fuse with branch wiring	125 A (gG)

Indicator/remote signaling

Switching function	Changeover 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 mm ² 1.5 mm ²
Conductor cross section solid	0.14 mm ² 1.5 mm ²
Conductor cross section AWG	28 16

Connection data

Connection method	Screw connection
Screw thread	M5



Technical data

Connection data

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

UL specifications

SPD Type	1
Maximum continuous operating voltage MCOV (L-L)	750 V AC
Maximum continuous operating voltage MCOV (L-N)	385 V AC
Maximum continuous operating voltage MCOV (L-G)	385 V AC
Maximum continuous operating voltage MCOV (N-G)	305 V AC
Nom. voltage	240/480 V AC (Split phase)
Mode of protection	L-L
	L-N
	L-G
	N-G
Power distribution system	Split phase
Nominal frequency	50/60 Hz
Voltage protection rating VPR (L-L)	2500 V
Voltage protection rating VPR (L-N)	1500 V
Voltage protection rating VPR (L-G)	2000 V
Voltage protection rating VPR (N-G)	1200 V
Nominal discharge current In	20 kA
Maximum Surge Current per Phase	40 kA
Short-circuit current rating (SCCR)	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.

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Technical data

Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012
Environmental Product Compliance	

REACh SVHC	Lead 7439-92-1

Drawings

Dimensional drawing





Classifications

eCl@ss

eCl@ss 10.0.1	27130805
eCl@ss 11.0	27130805
eCl@ss 6.0	27130800
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805
eCl@ss 9.0	27130805

ETIM

ETIM 5.0	EC000941
ETIM 6.0	EC000941
ETIM 7.0	EC000941

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed



Approvals

Ex Approvals

Approval details 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 cULus Listed 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

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Accessories

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 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.

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Accessories

Wiring bridge - MPB 18/1-57 - 2809238



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

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.

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Accessories

Wiring bridge - MPB 18/1- 4 - 2809225



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

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, Number of individual labels: 5

Feed-through terminal block

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



Feed-through terminal block for VAL and FLT applications

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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, Number of individual labels: 5

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, Number of individual labels: 5

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 surge protection plug - VAL-US-240/40-P - 2910336



UL Recognized type 1 SPD and IEC type 2 surge protection plug with a varistor and thermal disconnect for use with VAL-US base elements, mechanical and visual fault warning



Accessories

Type 1 surge protection plug - GDT-US-NG/40-P - 2910342



UL Recognized type 1 SPD and IEC type 2 surge protection plug with a gas discharge tube and thermal disconnect for use with VAL-US base elements, mechanical and visual fault warning

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