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Surge protective device, three channel with remote indicator contact for 347/600V and 400/690 V AC, 4-wire.



Your advantages

- ☑ With floating remote indication contact
- UL open terminal listed SPD
- Plugs can be checked with CHECKMASTER
- Mechanical coding of all slots
- Multi-channel type 2 arresters
- ☑ Optical, mechanical status indication for the individual arresters
- ☑ Disconnect device on each individual plug
- Multi-channel type 2 arresters



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 445212
GTIN	4055626445212
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

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Technical data

Dimensions

Depth	65.5 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	\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		

General

IEC test classification	11
	T2
EN type	T2
IEC power supply system	TN-C
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6
	PBT
Degree of pollution	2
Distance between live and grounded parts	5 mm
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	400/690 V AC (TN-C)
	347/600 V AC (TN-C)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _c	580 V AC
Standby power consumption P _c	≤ 150 mVA
Nominal discharge current I _n (8/20) μs	15 kA
Maximum discharge current I _{max} (8/20) µs	30 kA
Short-circuit current rating I _{SCCR}	25 kA



Technical data

Protective circuit

Voltage protection level Up	≤ 2.5 kV
Residual voltage U _{res}	\leq 2.5 kV (at I _n)
	≤ 2.3 kV (at 10 kA)
	\leq 2.1 kV (at 5 kA)
	≤ 1.9 kV (at 3 kA)
TOV behavior at U_T	690 V AC (5 s / withstand mode)
	762 V AC (120 min / withstand mode)
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 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 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
Tightening torque	3 Nm (1.5 mm ² 16 mm ²)
	4.5 Nm (25 mm ² 35 mm ²)
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-G)	580 V AC



Technical data

UL specifications

Nom. voltage	347/600 V AC (3-phase Wye)
	400/690 V AC (3-phase Wye)
Mode of protection	L-L
	L-G
Power distribution system	Wye
Nominal frequency	50/60 Hz
Voltage protection rating VPR (L-L)	4000 V
Voltage protection rating VPR (L-G)	2000 V
Nominal discharge current In	20 kA
Maximum Surge Current per Phase	30 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.

Standards and Regulations

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

Drawings

Dimensional drawing



Circuit diagram



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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 9.0	27130805

ETIM

ETIM 6.0	EC000941
ETIM 7.0	EC000941

UNSPSC

UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed	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

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Approvals



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Accessories

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.

Wiring bridge - MPB 18/1-12 - 2748593



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

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Accessories

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.

Wiring bridge - MPB 18/1- 3 - 2809212



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

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Accessories

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

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



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, 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-347/30-P - 2910339



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

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