

Lightning arrester type 1 - SYS-SET/3/T1/690 - 2800126

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Surge voltage protection combination type 1 for 690 V AC in a TN-C system

Why buy this product

- Other solutions for power supplies UN = 400 V available on request
- For power supplies with higher supply voltages
- Use in powerful industrial networks and wind turbine generators



Key commercial data

Packing unit	1 pc
GTIN	 4 046356 481311
Weight per Piece (excluding packing)	1672.1 g
Custom tariff number	85363030
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Height	155 mm
Width	142 mm
Depth	80.5 mm
Horizontal pitch	8 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

General

IEC power supply system	TN-C
Housing material	PA
Inflammability class according to UL 94	V0

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Technical data

General

Color	black
Standards for clearances and creepage distances	IEC 60664-1
	DIN VDE 0110-1
	EN 61643-11
Total surge current (8/20) μ s	150 kA
Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece
Number of positions	3
Surge protection fault message	None
Direction of action	3L-PEN

Protective circuit

IEC test classification	I
	T1
EN type	T1
Lightning protection class	I
Nominal voltage U_N	400 V AC (690 V AC)
Maximum continuous operating voltage U_C	440 V AC
Maximum continuous operating voltage U_C (L-PEN)	440 V AC
U_T (TOV-proof)	580 V AC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Residual current I_{PE}	≤ 0.1 mA
Nominal discharge current I_n (8/20) μ s	50 kA
Nominal discharge current I_n (8/20) μ s (L-PEN)	50 kA
	150 kA (all channels)
Impulse discharge current (10/350) μ s charge	25 As
Impulse discharge current (10/350) μ s, specific energy	625 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	50 kA (per channel)
Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 3 kV
Voltage protection level U_p (L-PEN)	≤ 3 kV
Response time	≤ 100 ns
Response time (L-PEN)	≤ 100 ns
Max. backup fuse with branch wiring	500 A (gL)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA
Follow current quenching capacity I_f (L-PEN)	25 kA (440 V AC)

Connection, protective circuit

Connection method	Screw terminal block
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block

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Technical data

Connection, protective circuit

Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross section stranded min.	16 mm ²
Conductor cross section stranded max.	35 mm ²
Conductor cross section solid min.	10 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section AWG/kcmil min.	6
Conductor cross section AWG/kcmil max	1

Standards and Regulations

Standards/regulations	IEC 61643-1 2005
	EN 61643-11/A11 2007

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201
eCl@ss 8.0	27130802

ETIM

ETIM 2.0	EC001457
ETIM 3.0	EC001457
ETIM 4.0	EC001457
ETIM 5.0	EC000381

UNSPSC

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

Approvals

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Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

Approval details

EAC

Accessories

Accessories

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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: 18 x 5 mm

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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: 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

Drawings

Dimensioned drawing

