Type 2 surge protection device - VAL-MS 350/10/3+0 - 2803577

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Surge arrester for 4-conductor power supply systems (L1, L2, L3, PEN), consisting of a base element and protective connectors, for mounting on NS 35.

Product Features

- With or without floating remote indication contact
- Solutions for the low performance class
- Mechanical coding of all slots
- Type 2 consistent plug-in surge arresters
- Disconnect device on each individual plug
- Optical, mechanical status indication for the individual arresters
- Multi-channel type 2 arresters

Key commercial data

Packing unit	1 pc
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	90 mm
Width	53.4 mm
Depth	65.5 mm
Horizontal pitch	3 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

General

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Technical data

General

Housing material	PBT / PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	EN 60664-1
	EN 61643-11
Mounting type	DIN rail: 35 mm
Type	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical
Direction of action	3L-PEN

Protective circuit

IEC test classification	II
	T2
EN type	T2
Nominal voltage U_N	230 V AC (400 V AC)
	230 V AC (400 V AC)
Maximum continuous operating voltage U_C	350 V AC
Maximum continuous operating voltage U_C (L-PEN)	350 V AC
U_T (TOV-proof)	415 V AC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Residual current I_{PE}	≤ 340 µA (per phase)
Standby power consumption P_C	≤ 360 mVA
Max. discharge current I_{max} (8/20) µs	10 kA (per channel L-PEN)
Max. discharge current I_{max} (8/20) µs maximum (L-PEN)	30 kA (all channels)
	10 kA (per channel)
Nominal discharge current I_n (8/20) µs (L-PEN)	15 kA (all channels)
	5 kA (per channel)
Voltage protection level U_p (L-PEN)	≤ 1.2 kV
Residual voltage (L-PEN)	≤ 1.2 kV
	≤ 1.1 kV
Response time (L-PEN)	≤ 25 ns
Max. backup fuse with branch wiring	125 A (gL/gG)
Short-circuit resistance I_P with max. backup fuse (effective)	25 kA

Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block

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Connection, protective circuit

Connection type OUT	Biconnect screw terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section stranded min.	1.5 mm²
Conductor cross section stranded max.	25 mm²
Conductor cross section solid min.	1.5 mm²
Conductor cross section solid max.	35 mm²
Conductor cross section AWG/kcmil min.	15
Conductor cross section AWG/kcmil max	2

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	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130805
eCl@ss 7.0	27130805

ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000941

UNSPSC

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

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Approvals

Approvals

Approvals

KEMA-KEUR / ÖVE / GOST / CCA / IECEE CB Scheme

Ex Approvals

Approvals submitted

Approval details

KEMA-KEUR

ÖVE

GOST

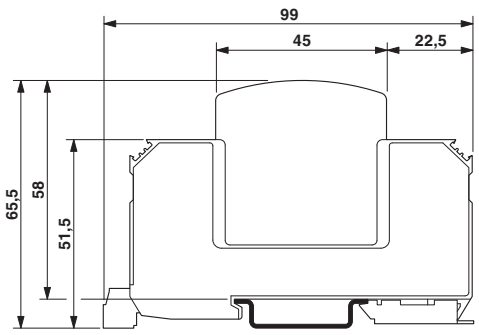
CCA

IECEE CB Scheme

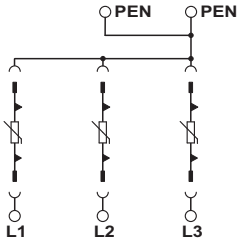
Drawings

Type 2 surge protection device - VAL-MS 350/10/3+0 - 2803577

Dimensioned drawing



Circuit diagram



The illustration shows the dimensional drawing for a version with remote indicator contact