

Type 2 surge protection device - VAL-MS 350/10/3+0-FM - 2803580

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

Your advantages

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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 301954
GTIN	4046356301954

Technical data

Dimensions

Height	99 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
Flammability rating according to UL 94	V0
Color	black
Standards for clearances 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, remote indicator contact
Direction of action	3L-PEN

Protective circuit

IEC test classification	II
EN type	T2
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}	$\leq 340 \mu A$ (per phase)
Standby power consumption P_C	$\leq 360 mVA$
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)	$\leq 1.2 kV$
Residual voltage (L-PEN)	$\leq 1.2 kV$
	$\leq 1.1 kV$
Response time t_A (L-PE)	$\leq 25 ns$
Max. backup fuse with branch wiring	125 A (gG/gG)
Short-circuit withstand capability I_p with max. backup fuse (r.m.s.)	25 kA

Connection, protective circuit

Connection method	Screw connection
Connection method IN	Biconnect screw terminal block
Connection method OUT	Biconnect screw terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section flexible min.	1.5 mm ²
Conductor cross section flexible max.	25 mm ²

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Connection, protective circuit

Conductor cross section solid min.	1.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section AWG min.	15
Conductor cross section AWG max.	2

Remote indication contact

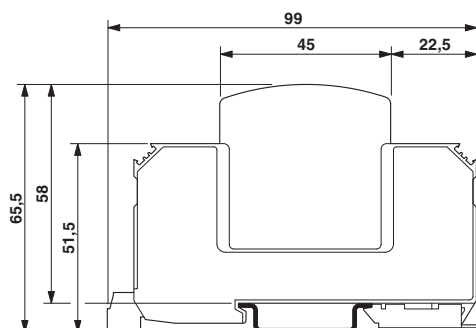
Connection name	Remote fault indicator contact
Switching function	PDT, 1-pos.
Connection method	Screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
Maximum operating voltage U _{max.} AC	250 V AC
Max. operating current I _{max}	1.5 A AC (250 V AC)
	1.5 A DC (30 V DC)

Standards and Regulations

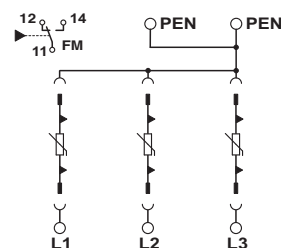
Standards/regulations	IEC 61643-1 2005
	EN 61643-11/A11 2007

Drawings

Dimensional drawing



Circuit diagram



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