

Type 2 surge protection device - VAL-MS 1000DC/2+F - 2800177

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Surge arrester for 2-pos. isolated DC voltage systems 1000 V DC, for DIN rail mounting, 3-pos. base element, three pluggable temperature-monitored protective elements, for PE free of leakage current, status message on each connector.

Your advantages

- ✓ With or without floating remote indication contact
- ✓ Plugs can be checked with CHECKMASTER
- ✓ Optical, mechanical status indication for the individual arresters
- ✓ Type 2 consistent plug-in surge arresters
- ✓ Mechanical coding of all slots

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 514040
GTIN	4046356514040

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

Housing material	PBT/PA
Flammability rating according to UL 94	V0
Color	black

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Technical data

General

Standards for clearances and creepage distances	DIN EN 60664-1
	DIN 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	(L+)-PE & (L-)-PE & (L+)-(L-)

Protective circuit

IEC test classification	II
	T2
EN type	T2
Maximum continuous operating voltage U_c	1000 V DC
Rated load current I_L	≤ 80 A DC
Residual current I_{PE}	≤ 1 μ A
Standby power consumption P_c	≤ 1 mVA
Max. discharge current I_{max} (8/20) μ s	30 kA
Nominal discharge current I_n (8/20) μ s	15 kA
Voltage protection level U_p (L+) - (L-)	≤ 5 kV
Voltage protection level U_p (L+/L-) - PE	≤ 3 kV
Residual voltage (L+) - (L-)	≤ 5 kV
	≤ 4.5 kV (at 10 kA)
	≤ 4 kV (at 5 kA)
Residual voltage (L+/L-) - PE	≤ 3 kV
	≤ 2.5 kV (at 10 kA)
	≤ 2 kV (at 5 kA)

PV protective circuit DC side

Short-circuit current rating I_{SCPV}	80 A
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Connection, protective circuit

Connection method	Screw connection
Connection method IN	Biconnect screw terminal block
Connection method OUT	Biconnect screw terminal block
Connection technology	Biconnect 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
Conductor cross section solid min.	1.5 mm ²
Conductor cross section solid max.	35 mm ²

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Connection, protective circuit

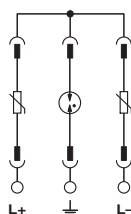
Conductor cross section AWG min.	15
Conductor cross section AWG max.	2

Standards and Regulations

Standards/regulations	DIN EN 61643-11 2002
	IEC 61643-1 2005
	IEC 60364-7-712 2002

Drawings

Circuit diagram



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