

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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.

### Product Features

- 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



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	340.0 GRM
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

Housing material	PBT / PA
------------------	----------

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

### Technical data

#### General

Inflammability class according to UL 94	V0
Color	black
Standards for air 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 $I_L$	$\leq 80$ A DC
Residual current $I_{PE}$	$\leq 1$ $\mu$ A
Standby power consumption $P_C$	$\leq 1$ mVA
Max. discharge current $I_{max}$ (8/20) $\mu$ s	30 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s	15 kA
Voltage protection level $U_p$ (L+) - (L-)	$\leq 5$ kV
Voltage protection level $U_p$ (L+/L-) - PE	$\leq 3$ kV
Residual voltage (L+) - (L-)	$\leq 5$ kV
	$\leq 4.5$ kV (at 10 kA)
	$\leq 4$ kV (at 5 kA)
Residual voltage (L+/L-) - PE	$\leq 3$ kV
	$\leq 2.5$ kV (at 10 kA)
	$\leq 2$ kV (at 5 kA)

#### PV protective circuit DC side

Short-circuit current rating $I_{SCPV}$	80 A
---	------

#### Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M5

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

### Technical data

#### Connection, protective circuit

Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section stranded min.	1.5 mm <sup>2</sup>
Conductor cross section stranded max.	25 mm <sup>2</sup>
Conductor cross section solid min.	1.5 mm <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	15
Conductor cross section AWG/kcmil max	2

#### Standards and Regulations

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

### 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
eCl@ss 8.0	27130805

#### ETIM

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

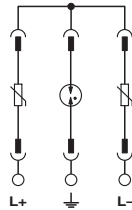
#### UNSPSC

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

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

## Drawings

Circuit diagram



单击下面可查看定价，库存，交付和生命周期等信息

[>>Phoenix Contact\(菲尼克斯\)](#)