

Type 2 surge protection plug - F-MS 1100/30 ST - 2800178

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Surge protection plug type 2, spark gap with high insulation voltage strength, used only as replacement plug for the corresponding complete item.



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	60.0 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	52.5 mm
Width	17.5 mm
Depth	52 mm
Horizontal pitch	1 Div.

Ambient conditions

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

General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	EN 60664-1
	EN 61643-11
Mounting type	On base element
Type	DIN rail module, two-section, divisible

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Technical data

General

Number of positions	1
Surge protection fault message	Optical
Direction of action	N-PE

Protective circuit

IEC test classification	II
	T2
EN type	T2
Nominal voltage U_N	only suitable in connecting in series with VAL-MS 580 ST!
Maximum continuous operating voltage U_C	580 V AC
Max. discharge current I_{max} (8/20) μ s	30 kA
Nominal discharge current I_n (8/20) μ s	20 kA
Impulse discharge current (10/350) μ s, peak value I_{imp}	3 kA
Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 3 kV
Insulation resistance R_{iso}	> 1 G Ω
Voltage protection level U_p	≤ 3 kV
Residual voltage	≤ 400 V
	≤ 250 V (at 7.5 kA)
	≤ 150 V (at 3 kA)
	≤ 100 V (at 2 kA)
Response time	≤ 100 ns
Short-circuit resistance I_p with max. backup fuse (effective)	80 A

PV protective circuit DC side

Open circuit voltage U_{OCSTC}	Only connected in series with VAL-MS...PV-ST
Maximum continuous operating voltage U_{CPV}	Only connected in series with VAL-MS...PV-ST
Short-circuit current rating I_{SCPV}	Only connected in series with VAL-MS...PV-ST

Connection, protective circuit

Connection type IN	FLASHTRAB/VALVETRAB plug-in system
Connection type OUT	FLASHTRAB/VALVETRAB plug-in system

Standards and Regulations

Standards/regulations	IEC 61643-1 2005
	DIN EN 61643-11 2002
	DIN EN 61643-11/A11 2007

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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

Drawings

Circuit diagram

