Type 1/2 surge protection plug - F-MS-T1/T2 50 ST - 2800191

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N-PE replacement plug for VAL-MS-T1/T2 335/12.5 plug-in lighting/surge arrester.

Why buy this product

- Plugs can be checked with CHECKMASTER
- Secure hold of plugs in the event of high lightning current loads and strong vibrations thanks to new latching
- Thermal disconnect device for each individual plug
- Pluggable
- Thermal disconnect device for each individual plug
- Mechanical coding of all slots

RoHS

Key Commercial Data

Packing unit	10 STK
GTIN	4 046356 518628
GTIN	4046356518628

Technical data

Dimensions

Height	47 mm
Width	17.7 mm
Depth	67.3 mm
Horizontal pitch	1 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

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Ambient conditions

Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	7.5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

General

IEC test classification	I / II
	T1 / T2
	T1
EN type	T1 / T2
	T1
IEC power supply system	TT
	TN-S
Mode of protection	N-PE
Mounting type	on base element
Color	jet black RAL 9005
Housing material	PA 6.6
	PBT
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Surge protection fault message	optical

Protective circuit

Nominal voltage U_N	240/415 V AC (TN-S)
	240/415 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	264 V AC
Residual current I_{PE}	≤ 5 µA
Standby power consumption P_C	≤ 1.3 mVA
Nominal discharge current I_n (8/20) µs	50 kA
Maximum discharge current I_{max} (8/20) µs	50 kA
Impulse discharge current (10/350) µs, charge	25 As
Impulse discharge current (10/350) µs, specific energy	625 kJ/Ω
Impulse discharge current (10/350) µs, peak value I_{imp}	50 kA
Follow current interrupt rating I_{fi}	100 A (264 V AC)
Voltage protection level U_p	≤ 1.7 kV
Residual voltage U_{res}	≤ 0.6 kV (at I_n)
	≤ 0.5 kV (at 10 kA)
	≤ 0.5 kV (at 5 kA)
	≤ 0.4 kV (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) µs	≤ 1.7 kV
TOV behavior at U_T	1200 V AC (200 ms / withstand mode)

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Protective circuit

Response time t_A	≤ 100 ns

UL specifications

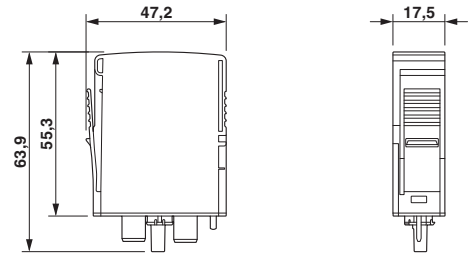
SPD Type	4CA
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Mode of protection	N-G
Power distribution system	1
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (N-G)	2600 V
Nominal discharge current I_n (N-G)	20 kA

Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

Drawings

Dimensional drawing



Circuit diagram

Approvals

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KEMA-KEUR / ÖVE / CCA / IECEE CB Scheme / UL Recognized / cUL Recognized / EAC / DNV GL / cULus Recognized

Ex Approvals

Approval details

KEMA-KEUR	KEMA KEUR	http://www.dekra-certification.com	2162496-01

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Approvals

ÖVE		https://www.ove.at/en/certification-pz/certification-register/	18583-009-06
CCA			NTR-AT 1906
IECEE CB Scheme		http://www.iecee.org/	AT 2584
UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
EAC			RU C-DE.A*30.B01561
DNV GL		http://exchange.dnv.com/tari/	TAE00001N9
cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
http://www.phoenixcontact.com