Type 1/2 surge protection plug - VAL-MS-T1/T2 1000DCPV-UD-ST - 2801231

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Replacement plug for PV arrester combinations from the VAL-MS-T1/T2 1000DC-PV-... product range

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 749220
GTIN	4046356749220

Technical data

Dimensions

Height	52.4 mm
Width	17.5 mm
Depth	55.3 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 %
Shock (operation)	60g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	7.5g (5-500 Hz/2.5 h/XYZ)

General

IEC test classification	PV T1
	PV T2

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Technical data

General

SPD failure behavior	OCM (Open-circuit mode)
Installation location	Inside
Accessibility	Accessible
Installation location of the disconnect device	Internal
Mounting type	on base element
Color	jet black RAL 9005
Housing material	PA 6.6-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Surge protection fault message	optical

Protective circuit DC voltage side (DC)

Maximum continuous operating voltage U_{CPV}	525 V DC
Open circuit voltage U_{OCSTC}	≤ 435 V DC
Short-circuit current rating I_{SCPV}	1000 A
Continuous operating current I_{CPV}	< 20 µA
Standby power consumption P_C	≤ 25 mVA
Nominal discharge current (8/20) µs	15 kA
Maximum discharge current I_{max} (8/20) µs	40 kA
Impulse discharge current (10/350) µs, charge	2.5 As
Impulse discharge current (10/350) µs, specific energy	6.25 kJ/Ω
Impulse discharge current (10/350) µs, peak value I_{imp}	5 kA
Voltage protection level U_p	≤ 1.8 kV
Residual voltage U_{res}	≤ 1.8 kV (at I_n)
	≤ 1.5 kV (at 5 kA)
	≤ 1.7 kV (at 10 kA)
	≤ 1.9 kV (at 20 kA)
	≤ 2.2 kV (at 30 kA)
	≤ 2.4 kV (at 40 kA)
Response time t_A	≤ 25 ns
Insulation resistance R_{iso}	> 5 GΩ (at 500 V DC)

Indicator/remote signaling

Max. required back-up fuse	not required

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L+) - G	1050 V DC
Nominal voltage	875 V DC
Mode of protection	(L+) - G

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UL specifications

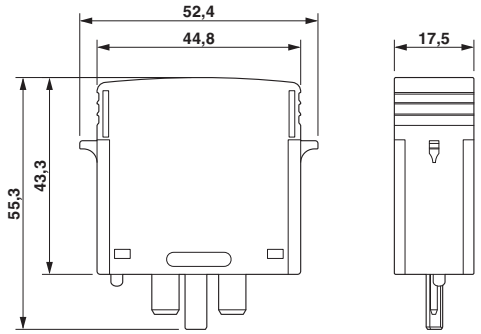
Power distribution system	1
Measured limiting voltage MLV (L+) - G	1900 V
Nominal discharge current I_n (L+) - G	20 kA

Standards and Regulations

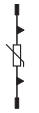
Standards/regulations	EN 50539-11 2013

Drawings

Dimensional drawing



Circuit diagram



Approvals

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KEMA-KEUR / EAC

Ex Approvals

Approval details

KEMA-KEUR	KEMA KEUR	http://www.dekra-certification.com	71-102960

EAC	EAC	RU C-DE.A*30.B01561

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