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Type 2 surge protection plug - VAL-MS 600DC-PV-ST - 2800623

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Replacement plug for PV arrester combinations from the VAL-MS 600DC-PV-... product range

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 615105
GTIN	4046356615105

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 II
	PV T2
EN type	T2
SPD failure behavior	OCM (Open-circuit mode)

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Technical data

General

Connection configuration	Y configuration
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
Design	Male
Number of positions	1
Surge protection fault message	optical

Additional descriptions

Note	The UL data applies for the series connection of two surge protective devices of the same type.
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Protective circuit DC voltage side (DC)

Maximum continuous operating voltage U_{CPV}	400 V DC
Open circuit voltage U_{OCSTC}	≤ 330 V DC
Short-circuit current rating I_{SCPV}	1000 A
Continuous operating current I_{CPV}	20 μ A
Standby power consumption P_C	≤ 25 mVA
Nominal discharge current (8/20) μ s	15 kA
Maximum discharge current I_{max} (8/20) μ s	40 kA
Voltage protection level U_p	≤ 1.4 kV
Residual voltage U_{res}	≤ 1.4 kV (at I_n)
	≤ 1.1 kV (at 5 kA)
	≤ 1.3 kV (at 10 kA)
	≤ 1.5 kV (at 20 kA)
	≤ 1.8 kV (at 30 kA)
	≤ 2 kV (at 40 kA)
Response time t_A	≤ 25 ns
Insulation resistance R_{iso}	> 5 G Ω (at 500 V DC)

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L+) - G	800 V DC
Nominal voltage	670 V DC
Mode of protection	(L+) - G
Power distribution system	1
Measured limiting voltage MLV (L+) - G	1550 V

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Technical data

UL specifications

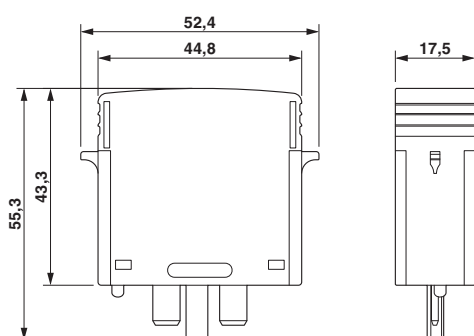
Nominal discharge current I_n (L+) - G	20 kA
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Standards and Regulations

Standards/regulations	EN 50539-11 2013
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Drawings

Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

UL Recognized / KEMA-KEUR / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
KEMA-KEUR		http://www.dekra-certification.com	2171492.01
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181

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Approvals

EAC



RU C-
DE.A*30.B01561

cULus Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

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