

Surge protection SPD II 2 R PV 1000VDC

Weidmüller Interface GmbH & Co. KG

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Surge protection for use on the DC side of photovoltaic installations. The SPD II PV series is tested according to UL 1449 ed. 3 (file E354261) as type 4 for use in type 2 applications. This series is assembled according to the respective PV voltage (600 V, 1000 V, 1200 V) and has a nominal discharge current of up to 50 kA (8/20 μ s) per path. The SPD II has a compact and modular structure and a standard module width of 17.8 mm; it allows rapid and simple exchange of the varistor protection. The SPD PV arrester consists of 2 elements.

General ordering data

Order No.	1348500000
Type	SPD II 2 R PV 1000VDC
Version	Surge protection, Low voltage, with telecomm. contact
GTIN (EAN)	4050118153705
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	36 mm	Height	100 mm
Depth	73.5 mm	Net weight	292 g

Temperatures

Operating temperature	-40 °C...+70 °C	Storage temperature	-40 °C...+85 °C
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General data

Colour	Light Grey	Design	Installation housing; 2TE
Height with TS 35	74 mm	Lightning arrester	No
Mounting rail	TS 35, TS 35 x 15, TS 35 x 7.5	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP 20	UL 94 flammability rating	V-0

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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technical data

Max. continuous voltage, U_c (DC)	1000 V	Total discharge current I_{total}	40 kA
Discharge current, max. (8/20 μ s)	20 kA	Protection level U_p (typ.)	≤ 4000 V
Signalling contact	250 V / 0,5 A, 48 VDC / 0,1 A	Colour	Light Grey
AC/DC/UC	DC	Response time	≤ 100 ns

Connection data

Clamping range, rated connection	25 mm ²	Clamping range, rated connection, min.	4 mm ²
Clamping range, rated connection, max.	35 mm ²	Wire connection cross section, stranded, rated connection, min.	2.5 mm ²
Wire connection cross section, stranded, rated connection, max.	25 mm ²	Tightening torque, min.	2.5 Nm
Tightening torque, max.	3 Nm	Stripping length, rated connection	15 mm

Connection data, remote alert

Connection type [remote alert]	Screw connection, pluggable	Max. torque [remote alert]	0.22 Nm
Stripping length [remote alert]	5 mm	Cross-section for connected wire, solid core, min. [remote alert]	0.5 mm ²
Cross-section for connected wire, solid core, max. [remote alert]	1.5 mm ²		

Photovoltaic technical data

Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE	1,000 V DC	Protection level U_p at I_n (per module)	4000 V
Protection level U_p mode (+/-, -/PE, +/-PE)	4000 V		

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Technical data

Rated data UL

Category	Typ 2	I_{max}	20 kA
I_n	10 kA	MCOV	1,000 Vdc
SCCR	200 kA	Test Voltage 39.1 (UL 1449)	1,000 V
UL certificate	E-File 354261 Type 2 by UL1449 Ed.3	VPR	4 V

Classifications

ETIM 3.0	EC000941	UNSPSC	30-21-19-21
eClass 5.1	27-13-08-01	eClass 6.2	27-13-08-02
eClass 7.1	27-14-02-01		

Approvals

Approvals



ROHS Conform

Downloads

Declaration of Conformity	K481_05_12.pdf
EPLAN	1348500000.ema

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Drawings

Electric symbol

