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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Surge protection SPD II 2 PV 1000VDC

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



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.	1348490000
Type	SPD II 2 PV 1000VDC
Version	Surge protection, Low voltage
GTIN (EAN)	4050118152906
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	36 mm	Height	90 mm
Depth	73.5 mm	Net weight	288 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.)	\leq 4000 V
Colour	Light Grey	AC/DC/UC	DC
Response time	\leq 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

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		

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		

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Data sheet...**Surge protection
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Technical data**Approvals**

Approvals



ROHS

Conform

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Declaration of Conformity

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EPLAN

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Drawings

Electric symbol

