VPU PV I+II 3 1000 E

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Germany

www.weidmueller.com

Product image

Similar to illustration

Type II surge voltage arrester for use in photovoltaic applications

- Pluggable arrester
- Suitable for protecting DC systems
- High energy absorption with short response time
- Tested in accordance with EN 50539-11
- Suitable for use in accordance with IEC 60364-7-712 / EN 50539-12
- Coded voltage level
- Installation in distribution board
- Thermal protection function

General ordering data

Version	Surge voltage arrester, Low voltage
Order No.	2530520000
Type	VPU PV I+II 3 1000 E
GTIN (EAN)	4050118540543
Qty.	1 pc(s).
Replacement parts	2530530000

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Technical data

Dimensions and weights

Depth	70 mm	Depth (inches)	2.756 inch
Height	96 mm	Height (inches)	3.78 inch
Width	54 mm	Width (inches)	2.126 inch
Mounting dimension - height	75 mm	Net weight	440 g

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...85 °C
Humidity	5 - 95% rel. humidity		

Rated data UL

Rated Voltage U_N	1,100 V

General data

Colour	black, orange	Design	Installation housing; 3TE, Insta IP 20
Operating altitude	≤ 2000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	Rail	TS 35
UL 94 flammability rating	V-0		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III

Photovoltaic technical data

Discharge current I_n (8/20 µs)	20 kA	Discharge current, max. (8/20 µs)	40 kA
Lightning test current I_{imp} (10/350 µs)	6.25 kA	Operating height in the grounded PV system	≤ 2000 m
Operating height in ungrounded PV system	< 4,000 m, see operating instructions	PV system voltage, max. U_{cpv}	1,100 V
Protection level U_p (+/- , -/PE , +/PE)	≤ 3.8 kV	Requirements class	Type I/II
Short-circuit curent I_{SCPV}	11,000 A	Standards	EN 50539-11, UL 1449
Total discharge current I_{total} (8/20µs)	50 kA	Total discharge current I_{total} (10/350µs)	6.25 kA

Rated data IEC / EN

Discharge current, max. (8/20 µs)	40 kA	Leakage current at U_n	30 µA
Lightning test current I_{imp} (10/350 µs)	6.25 kA	Max. continuous voltage, Uc (DC)	1000 V
Number of poles	3	Response time	≤ 25 ns
SPD type	T1, T2	Signalling contact	No
Standards	EN 50539-11, UL 1449	Voltage type	DC

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Technical data

Connection data

Stripping length	18 mm	Type of connection	Screw connection
Stripping length, rated connection	18 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	4.5 Nm	Clamping range, rated connection	16 mm²
Clamping range, min.	1.5 mm²	Clamping range, max.	35 mm²
Wire cross-section, solid, min.	1.5 mm²	Wire cross-section, solid, max.	16 mm²
Wire connection cross section, finely stranded, min.	1.5 mm²	Wire connection cross section, finely stranded, max.	25 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm²
Connection cross-section, stranded, min.	1.5 mm²	Connection cross-section, stranded, max.	35 mm²

Guarantee

Time interval	5 years

Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ECLASS 9.0	27-13-08-05
ECLASS 9.1	27-13-08-05	ECLASS 10.0	27-13-08-05
ECLASS 11.0	27-13-08-05	ECLASS 12.0	27-17-90-90

Approvals

ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	EAC VPU SERIES CE_VPU_PV
Engineering Data	CAD data – STEP
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format

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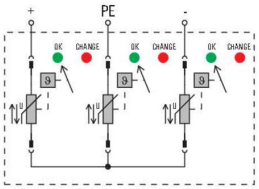
Drawings

Electric symbol



Circuit diagram