VPU PV II 3 1000

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

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, 1100 V
Order No.	2530550000
Type	VPU PV II 3 1000
GTIN (EAN)	4050118540550
Qty.	1 pc(s).

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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
Mounting dimension - height	75 mm	Net weight	386 g
Width	54 mm	Width (inches)	2.126 inch

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...70 °C
Humidity	5 - 95% rel. humidity		

Rated data UL

Certificate No. (UR)	E354261	Ambient temperature (operational), max.	85 ° C
Rated Voltage U_N	1,100 V	SCCR	50 kA
I_n	20 kA	Category	SPD TYPE 1CA
Rated current (UL)	1,100 V	Ambient temperature (operational), min.	-40 °C
Certificate No. (cURus)	E354261	VPR (DC+/DC-)	2,500 V
VPR (DC-/G)	2,500 V	Voltage type	DC

General data

Colour	black, orange	Design	Installation housing; 3TE, Insta IP 20
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
Rail	TS 35	UL 94 flammability rating	V-0
auxiliary contact	No		

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	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 mode (+/- , -/PE , +/ PE)	≤ 3.8 kV	Requirements class	Type II
Short-circuit curent I_{SCPV}	11,000 A	Standards	EN 50539-11:2013+A1:2014, UL 1449 Ed.4
Standby power consumption P_C	< 0.2 W	Total discharge current I_{total} (8/20µs)	50 kA

Rated data IEC / EN

Leakage current at U_n	30 µA	Number of poles	3
Rated voltage (DC)	1000 V	Response time	≤ 25 ns
SPD type	T2	Signalling contact	No
Standards	EN 50539-11:2013+A1:2014, UL 1449 Ed.4	Voltage type	DC

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Technical data

Connection data

Type of connection	Screw connection	Stripping length, rated connection	18 mm
Tightening torque, min.	2 Nm	Tightening torque, max.	4 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		

Ratings IECEx/ATEX/cUL

Certificate no. (cULus)	E354261

Guarantee

Time interval	5 years

Classifications

ETIM 6.0	EC000941	ETIM 7.0	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

Approvals

Approvals	
ROHS	Conform
UL File Number Search	E354261

Downloads

Approval/Certificate/Document of Conformity	EAC VPU SERIES CE_VPU_PV
Engineering Data	STEP
Tender specification	Ausschreibungstext DE Tenderspecification EN
User Documentation	Manual

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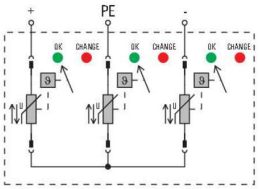
Drawings

Electric symbol



Circuit diagram