

VPU PV I+II 3 R 1500

Weidmüller Interface GmbH & Co. KG

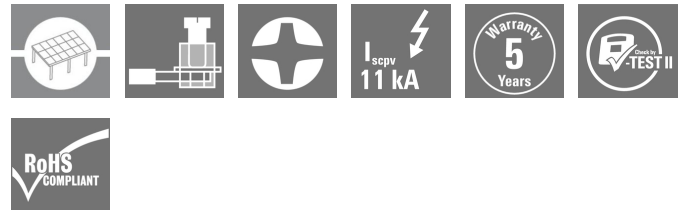
Klingenbergstraße 26

D-32758 Detmold

Germany

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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, with remote contact
Order No.	2530590000
Type	VPU PV I+II 3 R 1500
GTIN (EAN)	4050118540802
Qty.	1 pc(s).
Replacement parts	2530600000 2534300000 1402570000

Creation date May 19, 2022 12:03:05 PM CEST

Catalogue status 06.05.2022 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	86 mm	Depth (inches)	3.386 inch
Height	102 mm	Height (inches)	4.016 inch
Width	54 mm	Width (inches)	2.126 inch
Net weight	480 g		

Temperatures

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

Rated data UL

Certificate No. (UR)	E354261	Ambient temperature (operational), max. 85 °C	
Rated Voltage U_N	1,500 V	SCCR	65 kA
I_n	20 kA	Category	SPD TYPE 1CA
Rated current (UL)	1,500 V	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E354261	VPR (DC+/DC-)	4,000 V
VPR (DC-/G)	4,000 V	Voltage type	DC

Connection data, remote alert

Connection type	PUSH IN	Cross-section for connected wire, solid core, max.	1.5 mm ²
Cross-section for connected wire, solid core, min.	0.25 mm ²	Stripping length	12 mm

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	Version	with remote contact

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Photovoltaic technical data

Discharge current I_n (8/20 μs)	20 kA	Discharge current, max. (8/20 μs)	30 kA
Lightning test current I_{imp} (10/350 μs)	5 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}	1,500 V
Protection level U_p (+/-, -/PE, +/PE)	≤ 5,0 kV	Requirements class	Type I/II
Short-circuit current I_{SCPV}	11,000 A	Standards	EN 50539-11, UL 1449
Total discharge current I_{total} (8/20μs)	40 kA	Total discharge current I_{total} (10/350μs)	10 kA

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Technical data

Rated data IEC / EN

Discharge current, max. (8/20 μ s)	30 kA	Leakage current at U_n	30 μ A
Lightning test current I_{imp} (10/350 μ s)	5 kA	Number of poles	3
Rated voltage (DC)	1500 V	Response time	≤ 25 ns
SPD type	T1, T2	Signalling contact	250 V 1A 1CO, 125 V AC / 1 A, 48 V CC / 0.5 A
Standards	EN 50539-11, UL 1449	Voltage type	DC

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 mm ²
Clamping range, min.	1.5 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	1.5 mm ²	Wire cross-section, solid, max.	16 mm ²
Wire connection cross section, finely stranded, min.	1.5 mm ²	Wire connection cross section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm ²
Connection cross-section, stranded, min.	1.5 mm ²	Connection cross-section, stranded, max.	35 mm ²

Ratings IECEx/ATEX/cUL

Certificate no. (cULus)	E354261
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Guarantee

Time interval	5 years
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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

Approvals



ROHS	Conform
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Downloads

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

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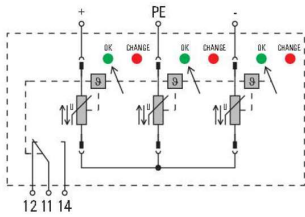
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Drawings

Electric symbol



Circuit diagram