

VPU II 3 PV 1000V DC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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, without telecomm. contact
Order No.	1351270000
Type	VPU II 3 PV 1000V DC
GTIN (EAN)	4050118158793
Qty.	1 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2022-03-30
Alternative product	2530550000
Replacement parts	1351190000

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Technical data

Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	94 mm	Height (inches)	3.701 inch
Width	53.4 mm	Width (inches)	2.102 inch
Mounting dimension - height	75 mm	Net weight	400 g

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
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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	without telecomm. contact

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Photovoltaic technical data

Conditions and requirements	EN 50539-11	Discharge current I_n (8/20 μs)	20 kA
Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE	1,000 V DC	PV system voltage, max. U_{cpv}	1,000 V
Protection level U_p (+/-, -/PE, +/-PE)	≤ 4.0 kV	Requirements class	Type II
Short-circuit current I_{SCPV}	200 A	Standards	EN 50539-11

Rated data IEC / EN

Discharge current I_{max} (8/20μs) wire-PE	40 kA	Discharge current I_n (8/20μs) wire-PE	20 kA
Leakage current at U_n	100 μA	Max. continuous voltage, U_c (DC)	1000 V
Number of poles	3	PV voltage, acc. to IEC 60364-7-712	≤ 1000 V
Rated voltage (DC)	1000 V	Response time	≤ 25 ns
SPD type	T2	Signalling contact	No
Standards	EN 50539-11	Voltage type	DC

Connection data

Stripping length	15 mm	Type of connection	Screw connection
Stripping length, rated connection	15 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	3 Nm	Clamping range, rated connection	16 mm ²
Clamping range, min.	2.5 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	2.5 mm ²	Wire cross-section, solid, max.	16 mm ²
Wire connection cross section, finely stranded, min.	2.5 mm ²	Wire connection cross section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm ²
Connection cross-section, stranded, min.	2.5 mm ²	Connection cross-section, stranded, max.	50 mm ²

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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

Tender specification sheets

Long specification	<p>Multi-pole surge voltage arrester according to the requirements of Class II acc. to IEC 50539-11. Consisting of VO material, the arrester serves as overvoltage protection in applications acc. to IEC 50539-12 in unearthed PV systems. The use of a high-performance varistor meets the inspection requirements for Class II surge protection systems on the basis of the standards. The arrester is installed in the vicinity of the equipment that needs protection, in a commercially available installation/electrical distribution enclosure. With thermal separation device on the varistor. If protection is no longer available, the colour in the display window changes from green to red. Rated voltage: 1000 VDC I_n/max (8/20 μs): 20/40 kA, protection level < 4 kV, type: Weidmüller VPU II 3 PV 1000 V/40 kA, Order No. 1351270000 or equivalent</p>	Short specification	<p>Class II arrester with I_n/I_{max}: 20/40 kA suitable for unearthed PV systems. Protection level < 4 kV. Type: Weidmüller VPU II 3 PV 1000 V/40 kA Order No. 1351270000 or equivalent</p>
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Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	EAC VPU SERIES EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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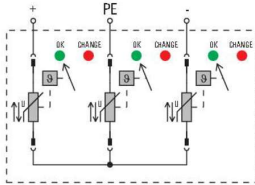
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Drawings

Electric symbol



Circuit diagram