

VPU II 2 R PV 1000V DC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**General ordering data**

Version	Surge voltage arrester, Low voltage, with remote contact
Order No.	1351240000
Type	VPU II 2 R PV 1000V DC
GTIN (EAN)	4050118158816
Qty.	1 pc(s).
Alternative product	2530180000
Replacement parts	1351190000 1402570000

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Technical data

Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	106 mm	Height (inches)	4.173 inch
Width	35.6 mm	Width (inches)	1.402 inch
Mounting dimension - height	75 mm	Net weight	288 g

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
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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.	0.14 mm ²	Stripping length	8 mm

General data

Number of poles	2	Protection degree	IP20
Colour	black, orange		

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)	12.5 kA	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1,000 V
PV system voltage, max. U_{cpv}	1,000 V	Protection level U_p (+/-)	≤ 5.6 kV
Protection level U_p (+/PE)	≤ 2.8 kV	Protection level U_p (-/PE)	≤ 2.8 kV
Requirements class	Type II	Short-circuit current I_{SCPV}	200 A
Standards	EN 50539-11		

Rated data IEC / EN

Discharge current I_{max} (8/20 μs) wire-PE	25 kA	Discharge current I_n (8/20 μs) wire-PE	12.5 kA
Integrated back-up fuse	No	Leakage current at U_n	30 μA
Max. continuous voltage, U_c (DC)	1000 V	Number of poles	2
PV voltage, acc. to IEC 60364-7-712	≤ 1000 V	Rated voltage (DC)	1000 V
Response time	≤ 25 ns	SPD type	T2
Signalling contact	250 V 1A 1CO, 125 V AC / 1 A, 48 V CC / 0.5 A, 24 V DC / 0.5 A	Standards	EN 50539-11
Voltage type	DC		

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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.	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.	50 mm ²
Connection cross-section, stranded, min.	1.5 mm ²	Connection cross-section, stranded, max.	50 mm ²

Electrical data

Voltage type	DC
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Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	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
ECLASS 13.0	27-17-90-90	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		

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Tender specification sheets

Long specification

Multi-pole surge voltage arrester according to the requirements of Class II acc. to IEC 50539-11. Consisting of V0 material, the arrester serves as overvoltage protection and is used in applications according to IEC 50539-12. 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. The functional state is also displayed by a voltage-free signalling contact (CO contact). Rated voltage: 1000 VDC In/max (8/20 µs): 12.5/25 kA, protection level < 2.8 kV, telecommunication output: contact: 250 V/0.5 A 48 VDC/0.1 A, type: Weidmüller VPU II 2 R PV 1000 V/25 kA, Order No. 1351240000 or equivalent

Short specification

Class II arrester with In/Imax: 12.5/25 kA suitable for PV systems. Protection level < 2.8 kV. With remote alert Type: Weidmüller VPU II 2 R PV 1000 V/25 kA Order no. 1352400000 or equivalent

Approvals

Approvals



Approvals MAMID

https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/

ROHS

Conform

Environmental Product Compliance

RoHS Compliance Status

Compliant without exemption

REACH SVHC

No SVHC above 0.1 wt%

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Technical data

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity UK Konformitätserklärung / UK Declaration of Conformity
Engineering Data	CAD data – STEP CAD data – DWG CAD data – DXF
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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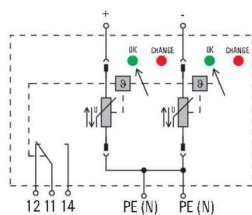
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Drawings

Electric symbol



Circuit diagram

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Accessories**Spare Arrester****General ordering data**

Type	VPU II O PV 1000V DC	Version
Order No.	1351190000	Surge voltage arrester, Low voltage, Accessories, Surge protection II
GTIN (EAN)	4050118158847	
Qty.	1 pc(s).	

VPU Series

Extensive accessories round off the product range

General ordering data

Type	PLUG VPU	Version
Order No.	1402570000	VPU series, Accessories
GTIN (EAN)	4050118204360	
Qty.	10 pc(s).	

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www.weidmueller.com**Accessories****Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

General ordering data

Type	SDIK PH1	Version
Order No.	9008570000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056569	
Qty.	1 pc(s).	

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Replacement parts**Spare Arrester****General ordering data**

Type	VPU II O PV 1000V DC	Version
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