

VPU I 2+0 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.	1351430000
Type	VPU I 2+0 R PV 1000V DC
GTIN (EAN)	4050118158663
Qty.	1 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2022-03-30
Alternative product	2530620000
Replacement parts	1402570000

Creation date December 4, 2023 8:23:48 AM CET

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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	71.2 mm	Width (inches)	2.803 inch
Mounting dimension - height	75 mm	Net weight	786 g

Temperatures

Storage temperature	-40 °C...80 °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

Colour	black	Design	Installation housing; 4TE, 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	IV
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Photovoltaic technical data

Discharge current I_n (8/20 μs)	20 kA	Discharge current, max. (8/20 μs)	40 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 (+/-)	≤ 5.2 kV	Protection level U_p (+/PE)	≤ 2.6 kV
Protection level U_p (-/PE)	≤ 2.6 kV	Requirements class	Type I/II
Short-circuit current I_{SCPV}	200 A	Standards	EN 50539-11
Total discharge current I_{total} (8/20 μs)	40 kA		

Rated data IEC / EN

Discharge current I_n (8/20 μs) wire-PE	40 kA	Discharge current, max. (8/20 μs)	40 kA
Leakage current at U_n	100 μA	Lightning test current I_{imp} (10/350 μs) (L-PE)	12.5 kA
Max. continuous voltage, U_c (DC)	1000 V	Number of poles	4
PV voltage, acc. to IEC 60364-7-712	≤ 1000 V	Rated voltage (DC)	1000 V
Requirements category acc. to IEC 61643-11	Type I/II	Requirements class, acc. to EN 61643-11	T1, T2
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, 24 V DC / 0.5 A	Standards	EN 50539-11
Voltage type	DC		

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Catalogue status 24.11.2023 / We reserve the right to make technical changes.

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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.	4 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

Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	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	27179090

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Tender specification sheets

Long specification	Multi-pole surge voltage arrester according to the requirements of Class I acc. to IEC 50539-11. Consisting of VO material, the arrester provides overvoltage protection in applications acc. to IEC 50539-12 in unearthed PV systems. The WEMID VO 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 limp: 12.5 kA In/ max (8/20 µs): 20/40 kA protection level < 2.6 kV telecommunication output: contact: 250 V/0.5 A 48 VDC/0.1 A Type: Weidmüller VPU I 2+0 R PV 1000 V Order No. 135 14300000 or equivalent	Short specification
		Class I arrester with limp: 12.5 kA suitable for PV systems. Protection level < 2.6 kV. With remote alert Type: Weidmüller VPU I 2+0 R PV 1000 V/12.5 kA Order no. 135 14300000 or equivalent

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[EU_Konformitätserklärung / EU_Declaration_of_Conformity](#)

Engineering Data

[CAD data – STEP](#)

User Documentation

[Beipackzettel / Instruction sheet](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

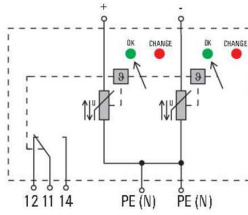
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Drawings

Electric symbol



Circuit diagram

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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 X 80	Version
Order No.	2749890000	Screwdriver, Blade width (B): 80 mm, Blade thickness (A):
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	

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Replacement parts**VPU Series**

Versatile accessories round off the surge protection range. E.g. the all-purpose measuring device V-TEST, which is used to check the function of pluggable arresters such as VSPC.

General ordering data

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