VPU I 2+0 R PV 600V DC

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

www.weidmueller.com



Similar to illustration

General ordering data

Version	Surge voltage arrester, Low voltage, with remote contact
Order No.	1351490000
Type	VPU I 2+0 R PV 600V DC
GTIN (EAN)	4050118158625
Qty.	1 pc(s).
Delivery status	Discontinued
Available until	2022-03-30
Replacement parts	1402570000

Creation date December 1, 2023 3:13:47 PM 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	491 g

Temperatures

Storage temperature	-40 °C...80 °C

Connection data, remote alert

Connection type	PUSH IN	Cross-section for connected wire, solid core, max.	1.5 mm²
Cross-section for connected wire, solid core, min.	0.14 mm²	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

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	600 V	PV system voltage, max. U_{cpv}	600 V
Protection level U_p (+/-)	≤ 3.6 kV	Protection level U_p (+/PE)	≤ 1.8 kV
Protection level U_p (-/PE)	≤ 1.8 kV	Requirements class	Type I/II
Short-circuit curent I_{SCPV}	200 A	Standards	EN 50539-11
Total discharge current I_{total} (8/20µs)	40 kA		

Rated data IEC / EN

Discharge current I_n (8/20µs) 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, Uc (DC)	600 V	Number of poles	4
PV voltage, acc. to IEC 60364-7-712	< 600 V	Rated voltage (DC)	600 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, 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 mm²
Clamping range, min.	4 mm²	Clamping range, max.	35 mm²
Wire cross-section, solid, min.	2.5 mm²	Wire cross-section, solid, max.	16 mm²
Wire connection cross section, finely stranded, min.	2.5 mm²	Wire connection cross section, finely stranded, max.	25 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm²
Connection cross-section, stranded, min.	2.5 mm²	Connection cross-section, stranded, max.	50 mm²

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

Tender specification sheets

Long specification	Multi-pole surge voltage arrestor according to the requirements of Class I acc. to IEC 50539-11. Consisting of V0 material, the arrestor provides overvoltage protection in applications acc. to IEC 50539-12 in unearthed PV systems. The WEMID V0 arrestor 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: 600 VDC Iimp: 12.5 kA In/max (8/20 µs): 20/40 kA protection level < 1.8 kV telecommunication output: contact: 250 V/0.5 A 48 VDC/0.1 A Type: Weidmüller VPU I 2+0 R PV 600 V Order No. 13514900000 or equivalent	Short specification	Class I arrester with Iimp: 12.5 kA suitable for PV systems. Protection level < 1.8 kV. With remote alert Type: Weidmüller VPU I 2+0 R PV 600 V/12.5 kA Order no. 1351490000 or equivalent

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Technical data

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	

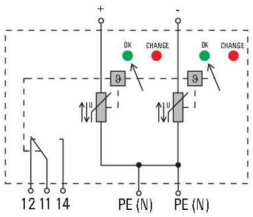
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Drawings

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).	