

VPU I 2+0 PV 1000V 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, without telecomm. contact
Order No.	1351470000
Type	VPU I 2+0 PV 1000V DC
GTIN (EAN)	4050118158649
Qty.	1 items
Delivery status	Discontinued
Available until	2022-03-30T00:00:00+02:00
Alternative product	VPU PV I+II 3 1000

VPU I 2+0 PV 1000V DC

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	69 mm	Depth (inches)	2.7165 inch
Height	94 mm	Height (inches)	3.7008 inch
Width	71.2 mm	Width (inches)	2.8031 inch
Mounting dimension - height	75 mm	Net weight	784 g

Temperatures

Storage temperature -40 °C...80 °C Operating temperature

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption
 REACH SVHC No SVHC above 0.1 wt%

General data

Optical function display	green = OK; red = arrester is defective - replace	Version	without telecomm. contact
Design	Installation housing; 4TE, Insta IP 20	UL 94 flammability rating	V-0
Colour	black	Protection degree	IP20
Mounting rail	TS 35	Operating altitude	≤ 2000 m

Insulation coordination acc. to EN 50178

Surge voltage category IV Pollution severity 2

Photovoltaic technical data

Standards	EN 50539-11	Discharge current, max. (8/20 µs)	40 kA
Short-circuit current ISCPv	200 A	Total discharge current I _{total} (8/20µs)	40
Discharge current I _n (8/20 µs)	20 kA	Requirements class	Type I/II
Protection level Up (-/PE)	≤ 2.6 kV	Protection level Up (+/-)	≤ 5.2 kV
Protection level Up (+/PE)	≤ 2.6 kV	PV system voltage, max. U _{cpv}	1000 V
Maximum continuous operating voltage 1000 V DC UCPV mode +/-, -/PE, +/-PE			

Rated data IEC / EN

Number of poles	4	Leakage current at U _n	100 µA
Signalling contact	No	Rated voltage (DC)	1000 V
PV voltage, acc. to IEC 60364-7-712	≤ 1000 V	Voltage type	DC
Response time / fallback time	≤ 25 ns	Standards	EN 50539-11
Lightning test current I _{imp} (10/350 µs) (L-PE)	12.5 kA	Discharge current, max. (8/20 µs)	40 kA
Max. continuous voltage, U _c (DC)	1000 V	Discharge current I _n (8/20µs) wire-PE	40 kA
SPD type	T1, T2	Integrated back-up fuse	No

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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

Electrical data

Voltage type	DC
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General data

Number of poles	4	Protection degree	IP20
Colour	black		

Classifications

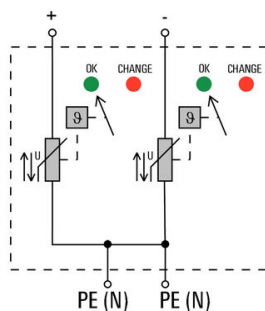
ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	EC000941	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		

Tender specification sheets

Long specification	Multi-pole surge voltage arrester according to the requirements of Class I acc. to IEC 50539-11. Consisting of V0 material, the arrester provides overvoltage protection in applications acc. to IEC 50539-12 in unearthed PV systems. The WEMID V0 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 limp: 12.5 kA In/max (8/20 µs): 20/40 kA, protection level < 2.6 kV, type: Weidmüller VPU I 2+0 PV 1000 V, Order No. 1351470000 or equivalent	Short specification	Class I arrester with limp: 12.5 kA suitable for PV systems. Protection level < 2.6 kV. Type: Weidmüller VPU I 2+0 PV 1000 V/12.5 kA Order no. 1351470000 or equivalent
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Drawings

Electric symbol



Circuit diagram

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