

VPU I 2+0 R PV 1000V DC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Type I/II lightning arrester for use in photovoltaic applications**

- Suitable for protection zones III and IV (LPL III/IV)
- Can also be used as Type II surge protection
- Tested in accordance with EN 50539-11
- Suitable for use in accordance with IEC 60364-7-712 / EN 50539-12
- Use if the separation distance cannot be observed

General ordering data

Version	Surge voltage arrester, Low voltage, 1000 V, 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	2018-12-31
Alternative product	2530620000

Creation date March 23, 2021 5:40:27 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
Mounting dimension - height	75 mm	Net weight	790 g
Width	71.2 mm	Width (inches)	2.803 inch

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
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

Conditions and requirements	EN 50539-11	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 mode (+/-)	≤ 5.2 kV
Protection level U_p mode (-/PE)	≤ 2.6 kV	Protection level U_p mode(+/-PE)	≤ 2.6 kV
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	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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Connection data

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
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

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Technical data

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 1430000 or equivalent

Approvals

Approvals



ROHS

Conform

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Approval/Certificate/Document of Conformity

[EAC VPU SERIES](#)
[CE PAPER](#)
[Declaration of Conformity](#)

Engineering Data

[STEP](#)

Engineering Data

[EPLAN, WSCAD](#)

User Documentation

[Instruction sheet](#)

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Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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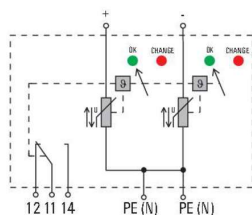
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Drawings

Electric symbol



Circuit diagram