

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Type II surge voltage arrester for use in photovoltaic applications**

- Pluggable arrester
- Suitable for protecting DC systems
- High energy absorption with short response time
- Tested in accordance with EN 50539-11
- Suitable for use in accordance with IEC 60364-7-712 / EN 50539-12
- Coded voltage level
- Installation in distribution board
- Thermal protection function

General ordering data

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

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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	288 g
Width	35.6 mm	Width (inches)	1.402 inch

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

Colour	black, orange	Design	Installation housing; 2TE, 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	III
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Photovoltaic technical data

Conditions and requirements	EN 50539-11	Discharge current I_n (8/20 μ s)	12.5 kA
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 (+/-)	≤ 5.6 kV	Protection level U_p mode (-/PE)	≤ 2.8 kV
Protection level U_p mode(+/-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 μ s) wire-PE	25 kA	Discharge current I_n (8/20 μ s) wire-PE	12.5 kA
Leakage current at U_n	30 μ A	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

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		

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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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



ROHS

Conform

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Approval/Certificate/Document of Conformity

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

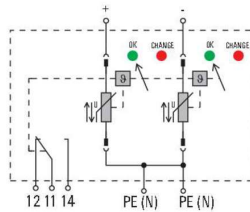
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Drawings

Electric symbol



Circuit diagram