

VPU II 2 R PV 600V 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.	1351370000
Type	VPU II 2 R PV 600V DC
GTIN (EAN)	4050118158717
Qty.	1 Stück
Replacement parts	1351320000 1402570000

Erstellungs-Datum May 15, 2023 2:01:11 PM CEST

Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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Technische Daten

Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	106 mm	Height (inches)	4.173 inch
Width	35.6 mm	Width (inches)	1.402 inch
Mounting dimension - height	75 mm	Net weight	0.304 g

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	70 °C

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
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	III
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Photovoltaic technical data

Discharge current I_n (8/20 μs)	12.5 kA	Discharge current, max. (8/20 μs)	40 kA
Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	600 V	Operating height in the grounded PV system	≤ 2000 m
Operating height in ungrounded PV system	≤ 2000 m	PV system voltage, max. U_{cpv}	600 V
Protection level U_p (+/-)	≤ 4.4 kV	Protection level U_p (+/PE)	≤ 2.2 kV
Protection level U_p (-/PE)	≤ 2.2 kV	Requirements class	Type II
Short-circuit current I_{SCP}	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	20 kA	Discharge current, max. (8/20 μs)	40 kA
Leakage current at U_n	30 μA	Max. continuous voltage, U_c (DC)	600 V
Number of poles	2	PV voltage, acc. to IEC 60364-7-712	< 600 V
Rated voltage (DC)	600 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

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.	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
ETIM 8.0	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

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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: 600 VDC In/max (8/20 µs): 20/40 kA, protection level < 2.2 kV, telecommunication output: contact: 250 V/0.5 A 48 VDC/0.1 A, type: Weidmüller VPU II 2 R PV 600 V/40 kA, Order No. 1351370000 or equivalent	Short specification
		Class II arrester with In/Imax: 20/40 kA suitable for PV systems. Protection level < 2.2 kV. With remote alert Type: Weidmüller VPU II 2 R PV 600 V/40 kA Order no. 1351370000 or equivalent

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	EAC VPU SERIES EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	WSCAD, EPLAN
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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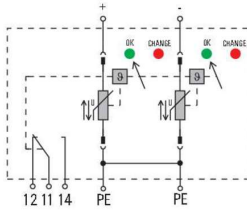
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Zeichnungen

Electric symbol



Circuit diagram