

VPU series

VPU PV I+II 3 R 1000

Weidmüller Interface GmbH & Co. KG
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Product image



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

Type	VPU PV I+II 3 R 1000
Order No.	2530620000
Version	Surge voltage arrester, Low voltage, 1100 V, with remote contact, 40 kA, I _{imp} : 6.25 kA
GTIN (EAN)	4050118540833
Qty.	1 pc(s).

Data sheet

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Technical data

Dimensions and weights

Width	54 mm	Width (inches)	2.126 inch
Height	102 mm	Height (inches)	4.016 inch
Depth	86 mm	Depth (inches)	3.386 inch
Mounting dimension - height	85 mm	Net weight	452 g

Temperatures

Humidity	5 - 95% rel. humidity	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...85 °C		

Probability of failure

MTBF	45 Years
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Rated data UL

VPR (DC+/DC-)	2,500 V	VPR (DC-/G)	2,500 V
Voltage type	DC	Certificate No. (UR)	E354261
Ambient temperature (operational), max.	85 °C	Rated Voltage U_N	1,100 V
VPR (L/N-PE)	2,500 V	SCCR	50 kA
I_n	20 kA	Category	SPD TYPE 1CA
Rated current (UL)	1,100 V		

Connection data, remote alert

Connection type	PUSH IN	Stripping length	8 mm
Cross-section for connected wire, solid core, min.	0.14 mm ²	Cross-section for connected wire, solid core, max.	1.5 mm ²

General data

Colour	Black, Orange	Design	Installation housing; 3TE, Insta IP 20
Mounting rail	TS 35	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	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 μ s)	20 kA	Discharge current, max. (8/20 μ s)	40 kA
Lightning test current I_{imp} (10/350 μ s)	6.25 kA	Operating height in the grounded PV system	≤ 2000 m
Operating height in ungrounded PV system	$< 4,000$ m, see operating instructions	PV system voltage, max. U_{cpv}	1,100 V
Protection level U_p mode (+/-, -/PE, +/- PE)	≤ 3.8 kV	Requirements class	Type I/II
Short-circuit current I_{SCP}	11,000 A	Standards	EN 50539-11:2013+A1:2014, UL 1449 Ed.4
Standby power consumption P_C	< 0.2 W	Total discharge current I_{total} (8/20 μ s)	50 kA
Total discharge current I_{total} (10/350 μ s)	12.5 kA		

Connection data

Type of connection	Screw connection	Stripping length, rated connection	15 mm
Tightening torque, min.	2 Nm	Tightening torque, max.	4 Nm
Clamping range, rated connection	16 mm ²	Clamping range, min.	1.5 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.	25 mm ²
Connection cross-section, stranded, min.	1.5 mm ²	Connection cross-section, stranded, max.	35 mm ²

Classifications

ETIM 3.0	EC000941	ETIM 5.0	EC000510
ETIM 6.0	EC000941	UNSPSC	30-21-19-21
eClass 5.1	27-13-08-01	eClass 6.2	27-13-08-02
eClass 7.1	27-14-02-01	eClass 8.1	27-14-02-01
eClass 9.0	27-14-02-01	eClass 9.1	27-13-08-05

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	CE VPU_PV
Engineering Data	STEP
User Documentation	Operating instruction

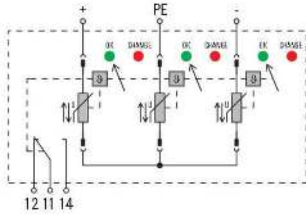
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Drawings

Electric symbol



Circuit diagram