

VPU PV I+II 5 R 1000**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****General ordering data**

Order No.	2856490000
Type	VPU PV I+II 5 R 1000
GTIN (EAN)	4064675536413
Qty.	1 pc(s).
Replacement parts	2857000000 2856650000 2855300000

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Technical data

Dimensions and weights

Depth	77.2 mm	Depth (inches)	3.039 inch
Height	111 mm	Height (inches)	4.37 inch
Width	90 mm	Width (inches)	3.543 inch
Net weight	704 g		

Temperatures

Storage temperature	85 °C	Operating temperature	-40 °C...85 °C
Humidity	5 - 95% rel. humidity		

Rated data UL

Category	SPD TYPE 1CA
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General data

Colour	orange, black	Design	5 TE, Insta IP 20
Operating altitude	≤ 4000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	Rail	TS 35
UL 94 flammability rating	V-0	Version	Surge protection I / II, 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)	20 kA	Discharge current, max. (8/20 µs)	40 kA
Lightning test current I_{imp} (10/350 µs)	5 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 (+/-, -/PE, +/-PE)	≤ 3.8 kV	Requirements class	Type I/II
Short-circuit current I_{SCPv}	11,000 A	Standards	EN 61643-31, EN 50539-11
Total discharge current I_{total} (8/20µs)	50 kA	Total discharge current I_{total} (10/350µs)	10 kA

Rated data IEC / EN

Discharge current, max. (8/20 µs)	40 kA	Lightning test current I_{imp} (10/350 µs)	5 kA
Number of poles	3	Rated voltage (DC)	1000 V
Response time	≤ 25 ns	SPD type	T1, T2
Signalling contact	250 V 1A 1CO	Standards	EN 61643-31, EN 50539-11
Voltage type	DC		

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Technical data

Connection data

Stripping length	18 mm	Type of connection	Screw connection
Stripping length, rated connection	18 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	4.5 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
Connection cross-section, stranded, min.	1.5 mm ²	Connection cross-section, stranded, max.	35 mm ²

Guarantee

Time interval	5 years
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Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	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	ECLASS 13.0	27-17-90-90

Important note

Product information	In case indication flag is not green on one or more plugs (ProTex T1-550PV-00M-P), that certain plug, including ground plug (ProTex T1-550PV-00-P) must be replaced at the same time.
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Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Beipackzettel / Instruction Sheet
Catalogues	Catalogues in PDF-format

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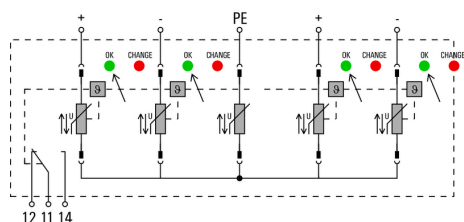
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Drawings

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 pc(s).	

Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

Type	SDIS 1.0X5.5X125	Version
Order No.	2749850000	Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade
GTIN (EAN)	4050118897050	thickness (A): 1 mm
Qty.	1 pc(s).	

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www.weidmueller.com**Accessories****Blank**

ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	ESG 6/15 K MC NE WS	Version
Order No.	1880100000	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive
GTIN (EAN)	4032248478781	
Qty.	200 pc(s).	

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Replacement parts

Spare Arrester



General ordering data

Type	VPU PV I+II 5 0 1000
Order No.	2857000000
GTIN (EAN)	4064675537366
Qty.	9 pc(s).

Type	VPU PV I+II 5 OM 1000
Order No.	2856650000
GTIN (EAN)	4064675536581
Qty.	9 pc(s).

VPU Series



Extensive accessories round off the product range

General ordering data

Type	PLUG VPU AC
Order No.	2855300000
GTIN (EAN)	4064675533283
Qty.	10 pc(s).