

VPU PV II 3 R 1000

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.	2530180000
Type	VPU PV II 3 R 1000
GTIN (EAN)	4050118540512
Qty.	1 items

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Technical data

Approvals

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ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E3542610000

Dimensions and weights

Depth	70 mm	Depth (inches)	2.7559 inch
Height	102 mm	Height (inches)	4.0157 inch
Width	54 mm	Width (inches)	2.126 inch
Mounting dimension - height	75 mm	Net weight	386 g

Temperatures

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

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Rated data UL

Ambient temperature (operational), max.	85 °C	Rated Voltage UN	1100 V
SCCR	50 kA	In	20 kA
Category	SPD TYPE 1CA	Ambient temperature (operational), min.	-40 °C
Certificate No. (cURus)	E3542610000	VPR (DC+/DC-)	2500 V
VPR (DC-/G)	2500 V	Voltage type	DC

Connection data, remote alert

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

General data

Optical function display	green = OK; red = arrester is defective - replace	Version	with remote contact
Design	Installation housing; 3TE, Insta IP 20	UL 94 flammability rating	V-0
Colour	black, orange	Protection degree	IP20
Mounting rail	TS 35	Operating altitude	≤ 4000 m

Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2
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Technical data

Photovoltaic technical data

Standards	EN 61643-31, EN 50539-11, UL 1449	Protection level Up (+/-, -/PE, +/PE)	≤ 3.8 kV
Operating height in ungrounded PV system	<4,000 m, see operating instructions	Short-circuit current ISCPV	11000 A
Total discharge current I _{total} (8/20μs)	50 kA	Discharge current I _n (8/20 μs)	20 kA
Requirements class	Type II	Operating height in the grounded PV system	≤ 2000 m
PV system voltage, max. U _{cpv}	1100 V		

Rated data IEC / EN

Number of poles	3	Leakage current at U _n	30 μA
Signalling contact	250 V 1A 1CO	Rated voltage (DC)	1000 V
Voltage type	DC	Response time / fallback time	≤ 25 ns
Standards	EN 61643-31, EN 50539-11, UL 1449	SPD type	T2
Integrated back-up fuse	No		

Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Type of connection	Screw connection	Stripping length, rated connection	18 mm
Tightening torque, min.	3 Nm	Tightening torque, max.	4.5 Nm
Clamping range, rated connection	6 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		

Electrical data

Voltage type	DC
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General data

Number of poles	3	Protection degree	IP20
Colour	black, orange		

Guarantee

Time interval	5 years
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Classifications

ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	EC000941	ECLASS 14.0	27-17-14-02
ECLASS 15.0	27-17-14-02		

Drawings

Electric symbol



Circuit diagram

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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 ST		

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 thickness (A): 1 mm	
GTIN (EAN)	4050118897050		
Qty.	1 ST		

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.

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Accessories

General ordering data

Type	ESG 6/15 K MC NE WS	Version	
Order No.	188010000	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive	
GTIN (EAN)	4032248478781		
Qty.	200 ST		

VPU Series



Extensive accessories round off the product range

General ordering data

Type	VPU PV EXTENDER	Version	
Order No.	312351000		
GTIN (EAN)	4099987270199		
Qty.	9 ST		

Spare Arrester



General ordering data

Type	VPU PV II O 1000	Version	
Order No.	253066000	Surge voltage arrester, Low voltage, Accessories, Spare arrester	
GTIN (EAN)	4050118540871		
Qty.	9 ST		

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Accessories

VPU Series



Extensive accessories round off the product range

General ordering data

Type	VPU LOCKING CLIP S	Version	
Order No.	2735080000		
GTIN (EAN)	4050118826050		
Qty.	10 ST		
Type	PLUG VPU AC	Version	
Order No.	2855300000		
GTIN (EAN)	4064675533283		
Qty.	10 ST		