Data sheet

VPU PV I+II 5 0 1000

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



General ordering data

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

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Technical data

Approvals

Approvals	
ROHS	Conform

Dimensions and weights

Depth	57.2 mm	Depth (inches)	2.252 inch
Height	45 mm	Height (inches)	1.7716 inch
Width	18 mm	Width (inches)	0.7087 inch
Net weight	8.89 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

Category	SPD TYPE 1CA

General data

Optical function display	green = OK; red = arrester is defective - replace	Version	Surge protection I / II, Spare arrester
Design	Insta IP 20	UL 94 flammability rating	V-0
Colour	orange	Protection degree	IP20
Operating altitude	≤ 4000 m		

Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2

Photovoltaic technical data

Standards	EN 61643-31, EN 50539-11	Lightning test current limp (10/350 µs)	5 kA
Protection level Up (+/- , -/PE , +/PE)	≤ 3.8 kV	Operating height in ungrounded PV system	<4,000 m, see operating instructions
Short-circuit curent ISCPV	11000 A	Total discharge current (Itotal) (8 / 20 µs)	50 kA
Discharge current In (8/20 µs)	20 kA	Requirements class	Type I/II
Operating height in the grounded PV system	≤ 2000 m	Total discharge current (Itotal) (10 / 350 µs)	10 kA
PV system voltage (Ucpv), max.	1100 V		

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Technical data

Rated data IEC / EN

Number of poles	1	Signalling contact	No
Rated voltage (DC)	1000 V	Voltage type	DC
Fuse protection	No	Response time / fallback time	≤ 25 ns
Standards	EN 61643-31, EN 50539-11	Lightning test current limp (10/350 µs)	5 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	SPD type	T1, T2
Integrated back-up fuse	No		

Connection data

Stripping length	18 mm	Type of connection	pluggable
Stripping length, rated connection	18 mm	Wire cross-section, solid, min.	1.5 mm²
Wire cross-section, solid, max.	35 mm²	Wire connection cross section, finely stranded, min.	1.5 mm²
Wire connection cross-section, finely stranded, max.	35 mm²	Connection cross-section, stranded, min.	1.5 mm²
Connection cross-section, stranded, max.	35 mm²		

Electrical data

Voltage type	DC

General data

Number of poles	1	Protection degree	IP20
Colour	orange		

Guarantee

Time interval	5 years

Classifications

ETIM 8.0	EC001457	ETIM 9.0	EC001457
ETIM 10.0	EC001457	ECLASS 14.0	27-17-14-03
ECLASS 15.0	27-17-14-03		

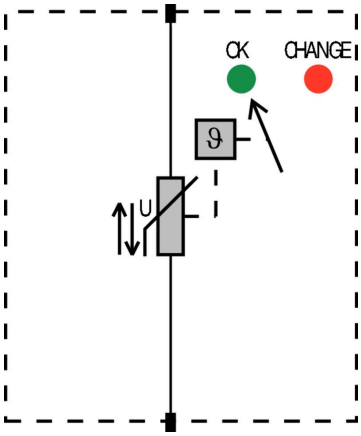
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Drawings

Electric symbol



Circuit diagram