

**VPU series**  
**VPU I 1+1 280V/12,5KA**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
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**Type I/II lightning arrester for use downstream/  
 upstream of the electrical meter**

- No-leakage-current version suitable for use upstream of the electrical meter
- Suitable for protection classes III and IV (LPLIII/IV)
- Can also be used as Type II surge protection
- Tested according to IEC 61643-11 for Type I and II surge protection
- Pluggable arrester

**General ordering data**

Type	VPU I 1+1 280V/12,5KA
Order No.	<a href="#">1352250000</a>
Version	Surge voltage arrester, Low voltage, without telecomm. contact, Single-phase
GTIN (EAN)	4050118158014
Qty.	1 pc(s).

Creation date May 3, 2020 6:02:15 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

Width	35.6 mm	Width (inches)	1.402 inch
Height	94 mm	Height (inches)	3.701 inch
Depth	69 mm	Depth (inches)	2.717 inch
Mounting dimension - height	75 mm	Net weight	298 g

### Temperatures

Humidity	5 - 95% rel. humidity	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	80 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...80 °C		

### General data

Colour	black, orange, blue	Design	Installation housing; 2TE, Insta IP 20
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
Rail	TS 35	Segment	Power distribution
UL 94 flammability rating	V-0	Version	without telecomm. contact

### Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	IV
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### Rated data IEC / EN

Rated voltage (AC)	230 V	Voltage type	AC
Max. continuous voltage, $U_c$ (AC)	280 V	Max. continuous voltage, $U_c$ (N-PE)	260 V
Low voltage network	Single-phase	Discharge current $I_n$ (8/20 $\mu$ s) N-PE	50 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) N-PE	100 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	20 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	50 kA	Lightning test current $I_{imp}$ (10/350 $\mu$ s) (L-PE)	12.5 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) (N-PE)	50 kA	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	125 A gL > (if back up fuse > 125 A), No Fuse necessary $\leq$ 125 A gG
Short-circuit current rating $I_{SCCR}$	25 kA	Follow-on current extinguishing capability $I_{fi}$	Not available due for technical reasons
Standards	IEC61643-11, EN61643-11	Energy coordination ( $\leq$ 10 m)	Type I, Type II, Type III
Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq$ 1.4 kV	Protection level $U_p$ at $I_N$ (N-PE)	$\leq$ 1.5 kV
Leakage current at $U_n$	100 $\mu$ A	Temporary surge voltage (over-voltage) - TOV	438 V
Number of poles	2	Requirements category acc. to IEC 61643-11	Type I, Type II
Requirements class, acc. to EN 61643-11	T1, T2	Response time	$\leq$ 25 ns, $\leq$ 100 ns
Signalling contact	No		

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**Technical data****Connection data**

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 <sup>2</sup>	Clamping range, min.	4 mm <sup>2</sup>
Clamping range, max.	35 mm <sup>2</sup>	Wire cross-section, solid, min.	2.5 mm <sup>2</sup>
Wire cross-section, solid, max.	16 mm <sup>2</sup>	Wire connection cross-section, finely stranded, min.	2.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	25 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm <sup>2</sup>	Connection cross-section, stranded, min.	2.5 mm <sup>2</sup>
Connection cross-section, stranded, max.	50 mm <sup>2</sup>		

**Classifications**

ETIM 6.0	EC000941	ETIM 7.0	EC000941
eClass 9.0	27-13-08-05	eClass 9.1	27-13-08-05
eClass 10.0	27-13-08-05	UNSPSC	30-21-19-22

**Product information**

Product information Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018).

**Approvals**

Approvals



ROHS

Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">CE PAPER</a> <a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.4 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Instruction sheet</a>

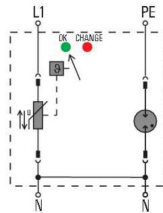
**Data sheet**

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**Drawings**

**Electric symbol**



Schematic circuit diagram

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**Accessories**
**N-PE 260 V**

**Spare arrester Type I**

Weidmüller VPU I surge protection products protect low-voltage consumer installations and electronic devices against overvoltages that can occur as a result of atmospheric discharges (thunderstorms) or switching operations (transients). The VPU I series meets the Type I and Type II requirements acc. to IEC 61643-11 and the Type 1 and Type 2 requirements acc. to EN 61643-11. The spare arresters are coded and can only be inserted into suitable bases.

**General ordering data**

Type	VPU I 0 N-PE 260V/50KA	Version
Order No.	<a href="#">1351930000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester, TT
GTIN (EAN)	4050118158274	nur für N-PE
Qty.	1 pc(s).	

**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 PH 1	Version
Order No.	<a href="#">9008570000</a>	Screwdriver, Blade length: 80 mm
GTIN (EAN)	4032248056569	
Qty.	1 pc(s).	

**Data sheet**

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**Accessories**

**L-PEN 280 V**



**Spare arrester Type I**

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**General ordering data**

Type	VPU I 0 280V/12,5KA	Version	
Order No.	<a href="#">1352120000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester	
GTIN (EAN)	4050118158120		
Qty.	1 pc(s).		