

**VPU series**  
**VPU I 1+1 LCF 280V/25KA**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



**Type I/II lightning arrester for use upstream/  
 downstream of the electrical meter**

- Can also be used for type II surge protection
- Tested according to IEC 61643-11 for type I and II surge protection
- With 35 kA (10/350  $\mu$ s) suitable for protective zones I, II, III and IV (LPL I/II/III/IV)

**General ordering data**

Type	VPU I 1+1 LCF 280V/25KA
Order No.	<a href="#">1351750000</a>
Version	Surge voltage arrester, Low voltage, without telecomm. contact, Leakage-current-free, Single-phase, IT with N, IT without N, TN
GTIN (EAN)	4050118158410
Qty.	1 pc(s).

Creation date May 3, 2020 5:53:22 AM CEST

## VPU series

### VPU I 1+1 LCF 280V/25KA

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

## Technical data

### Dimensions and weights

Width	71.2 mm	Width (inches)	2.803 inch
Height	94 mm	Height (inches)	3.701 inch
Depth	69 mm	Depth (inches)	2.717 inch
Mounting dimension - height	75 mm	Net weight	609 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; 4TE, Insta IP 20
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
Rail	TS 35	Segment	Power distribution
Suitable for	Count-in installation (leakage current free)	UL 94 flammability rating	V-0
Version	without telecomm. contact, Leakage-current-free		

### Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	IV
--------------------	---	------------------------	----

### 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, IT with N, IT without N, TN	Discharge current $I_n$ (8/20 $\mu$ s) N-PE	100 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) N-PE	100 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	25 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	100 kA	Lightning test current $I_{imp}$ (10/350 $\mu$ s) (L-PE)	25 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) (N-PE)	100 kA	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	No Fuse necessary $\leq$ 250 A gG, 250 A gL (if back up fuse > 250 A)
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)	$\leq$ 1.6 kV	Protection level $U_p$ at $I_N$ (N-PE)	$\leq$ 1.6 kV
Leakage current at $U_n$	1 $\mu$ A	Temporary surge voltage (over-voltage) - TOV	438 V
Number of poles	1	Rated load current $I_L$	100 A
Requirements category acc. to IEC 61643-11	Type I, Type II	Requirements class, acc. to EN 61643-11	T1, T2
Response time	$\leq$ 100 ns	Signalling contact	No
Suitable for	Count-in installation (leakage current free)		

Creation date May 3, 2020 5:53:22 AM CEST

**VPU series**  
**VPU I 1+1 LCF 280V/25KA**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**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

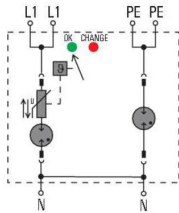
Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">CE PAPER</a>
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****VPU series  
VPU I 1+1 LCF 280V/25KA**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Drawings****Electric symbol**

Schematic circuit diagram

**VPU series  
VPU I 1+1 LCF 280V/25KA**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**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/100KA	Version
Order No.	<a href="#">1351940000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester, TT
GTIN (EAN)	4050118158267	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**

**VPU series**  
**VPU I 1+1 LCF 280V/25KA**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Accessories**

**L-PEN 280 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 LCF 280V/25KA	Version
Order No.	<a href="#">1351540000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118158588	
Qty.	1 pc(s).	