

VPU series
VPU I 1 LCF 280V/25KA

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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 Germany
 Fon: +49 5231 14-0
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 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 μ s) suitable for protective zones I, II, III and IV (LPL I/II/III/IV)

General ordering data

Type	VPU I 1 LCF 280V/25KA
Order No.	1351590000
Version	Surge voltage arrester, Low voltage, without telecomm. contact, Leakage-current-free, Single-phase
GTIN (EAN)	4050118158540
Qty.	1 pc(s).

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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	363 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	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
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
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Rated data IEC / EN

Rated voltage (AC)	230 V	Voltage type	AC
Max. continuous voltage, U_c (AC)	280 V	Low voltage network	Single-phase
Discharge current I_n (8/20 μ s) wire-PE	25 kA	Discharge current I_{max} (8/20 μ s) wire-PE	100 kA
Lightning test current I_{imp} (10/350 μ s) (L-PE)	25 kA	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	No Fuse necessary ≤ 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 (≤ 10 m)	Type I, Type II, Type III
Protection level U_p at I_N (L/N-PE)	≤ 1.6 kV	Leakage current at U_n	1 μ 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	≤ 100 ns
Signalling contact	No	Suitable for	Count-in installation (leakage current free)

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

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

Approvals

Approvals



ROHS Conform

Downloads

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

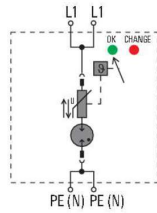
Data sheet

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Drawings

Electric symbol



Schematic 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	Version
Order No.	9008570000	Screwdriver, Blade length: 80 mm
GTIN (EAN)	4032248056569	
Qty.	1 pc(s).	

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.	1351540000	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118158588	
Qty.	1 pc(s).	