

VPU series

VPU I 1+1 400V/25KA

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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Similar to illustration



Type I/II lightning arrester for use in 400/690 V mains systems

- Can also be used as Type II surge protection
- With remote monitoring function, one changeover contact
- Tested according to IEC 61643-11 for Type I and II surge protection
- Pluggable arrester

General ordering data

Type	VPU I 1+1 400V/25KA
Order No.	1351840000
Version	Surge voltage arrester, Low voltage, without telecomm. contact, Single-phase, TN, IT with N, IT without N
GTIN (EAN)	4050118158342
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	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	634 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
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)	400 V	Voltage type	AC
Max. continuous voltage, U_c (AC)	400 V	Max. continuous voltage, U_c (N-PE)	440 V
Low voltage network	Single-phase, TN, IT with N, IT without N	Discharge current I_n (8/20 μ s) N-PE	100 kA
Discharge current I_{max} (8/20 μ s) N-PE	100 kA	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
Lightning test current, I_{imp} (10/350 μ 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 1.9 kV	Protection level U_p at I_N (N-PE)	\leq 3 kV
Leakage current at U_n	100 μ A	Temporary surge voltage (over-voltage) - TOV	620 V
Number of poles	2	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 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 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

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

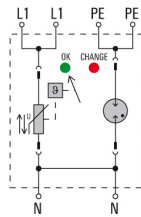


ROHS

Conform

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Approval/Certificate/Document of Conformity	EAC VPU SERIES CE PAPER Declaration of Conformity
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet

Data sheet**VPU series**
VPU I 1+1 400V/25KA**Weidmüller Interface GmbH & Co. KG**
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Schematic circuit diagram

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Accessories
VPU I N-PE 440 V

Type I lightning/surge protection Suitable as N-PE arrester

- Pluggable N-PE arrester
- High energy absorption with short time to sparkover
- Installation in distribution board
- Lower residual voltage

General ordering data

Type	VPU I 1 N-PE 440V/100KA	Version
Order No.	1351970000	Surge voltage arrester, Low voltage, without telecomm. contact, TT nur
GTIN (EAN)	4050118158243	für N-PE
Qty.	1 pc(s).	

L-PEN 400 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 400V/25KA	Version
Order No.	1351790000	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118158380	
Qty.	1 pc(s).	

Data sheet**VPU series**
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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).	