

VPU series
VPU I 1+1 400V/25KA**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com



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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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

Discharge current $I_{\max}$ (8/20µs) wire-PE	100 kA	Discharge current $I_{\max}$ (8/20µs) N-PE	100 kA
Discharge current I_n (8/20µs) N-PE	100 kA	Discharge current I_n (8/20µs) wire-PE	25 kA
Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	250 A gL (if back up fuse > 250 A)
Leakage current at U_n	100 µA	Lightning test current I_{imp} (10/350 µs) (L-PE)	25 kA
Lightning test current, I_{imp} (10/350 µs) (N-PE)	100 kA	Low voltage network	Single-phase, TN, IT with N, IT without N
Max. continuous voltage, U_c (AC)	400 V	Max. continuous voltage, U_c (N-PE)	440 V
No. of poles	2	Protection level U_p at I_N (L/N-PE)	≤ 1.9 kV
Protection level U_p at I_N (N-PE)	≤ 3 kV	Rated load current I_L	100 A
Rated voltage (AC)	400 V	Requirements category acc. to IEC 61643-11	Type I, Type II
Requirements class, acc. to EN 61643-11	T1, T2	Response time	≤ 25 ns, ≤ 100 ns
Short-circuit current rating I_{SCCR}	25 kA	Signalling contact	No
Standards	IEC61643-11, EN61643-11	Temporary surge voltage (over-voltage) - TOV	620 V
Voltage type	AC		

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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 3.0	EC000381	ETIM 5.0	EC000510
ETIM 6.0	EC000941	UNSPSC	30-21-19-22
eClass 5.1	27-14-02-01	eClass 6.2	27-13-08-02
eClass 7.1	27-14-02-01	eClass 8.1	27-14-02-01
eClass 9.0	27-13-08-05	eClass 9.1	27-13-08-05

Approvals

Approvals



ROHS

Conform

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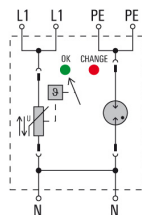
Approval/Certificate/Document of Conformity	CE PAPER Declaration of Conformity
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet

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Drawings

Electric symbol



Schematic circuit diagram