VPU series
VPU AC I 1 440/25 LCF

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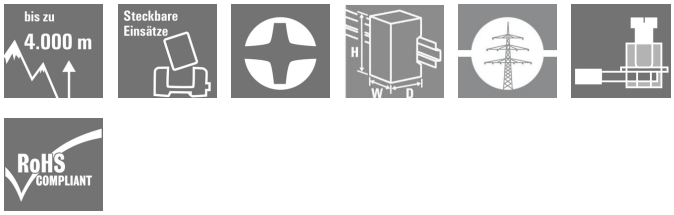

Weidmüller VPU I (Type I), VPU II (Type II) and VPU III (Type III) surge protection products effectively reduce the interference coupling that can occur due to transient surge voltages, even significantly below the limits prescribed by insulation co-ordination according to EN 60664-3 / DIN VDE 0110-3. This means that the whole installation is exposed to fewer malfunctions. The arresters are co-ordinated using technical means. This means that decoupling between Types I, II and III is unnecessary. The arresters are tested according to product standard IEC 61643-11 / DIN EN 61643-11 and can be installed in systems according to IEC 61643-12 / VDE V0675-6-12 and IEC 62305-4 / VDE 0185-4. This lightning and surge protection device is suited for installation in power supply systems. Weidmüller offers different products depending on the particular mains network type and voltage level. A special Type I and Type II protective device is even available for photovoltaic applications.

General ordering data

Type	VPU AC I 1 440/25 LCF
Order No.	2619100000
GTIN (EAN)	4050118633962
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	36 mm	Width (inches)	1.417 inch
Height	99 mm	Height (inches)	3.898 inch
Depth	93 mm	Depth (inches)	3.661 inch
Net weight	25 g		

Temperatures

Humidity	5 - 95% rel. humidity	Operating temperature, max.	85 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...85 °C
Storage temperature	-40 °C...85 °C		

General data

Altitude	≤ 2000 m	Colour	black
Design	Installation housing; 2TE, Insta IP 20	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20 in installed state	Rail	TS 35
Segment	Power distribution	Suitable for	Count-in installation (leakage current free)
UL 94 flammability rating	V-0	Version	Surge protection

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III

Rated data IEC / EN

Discharge current I_{max} (8/20µs) wire-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	5 µA	Lightning test current I_{imp} (10/350 µs) (L-PE)	25 kA
Low voltage network	Single-phase, TN, TN-S	Max. continuous voltage, Uc (AC)	440 V
No. of poles	2	Protection level U_P (typ.)	≤ 2.5 kV
Protection level U_p at I_N (L/N-PE)	≤ 2.5 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
Short-circuit current rating I_{SCCR}	50 kA	Signalling contact	No
Standards	IEC61643-11, EN61643-11, EN 60068-2-27:2009, EN 60068-2-64:2008, EN 60068-2-6:2008	Suitable for	Count-in installation (leakage current free)
Temporary surge voltage (over-voltage) - TOV	762 V	Voltage type	AC

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Technical data

Connection data

Wire connection method	Screw connection	Type of connection	Screw connection
Stripping length, rated connection	13 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	3 Nm	Clamping range, rated connection	16 mm²
Clamping range, min.	6 mm²	Clamping range, max.	35 mm²
Wire cross-section, solid, min.	6 mm²	Wire cross-section, solid, max.	16 mm²
Wire connection cross-section, finely stranded, min.	6 mm²	Wire connection cross section, finely stranded, max.	25 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	6 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm²
Connection cross-section, stranded, min.	6 mm²	Connection cross-section, stranded, max.	35 mm²

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	CE
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity

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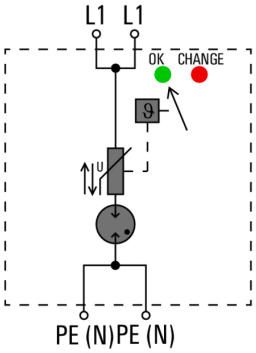
Drawings

Electric symbol



Schematic circuit diagram