

## VPU AC I 1+1 440/25 LCF

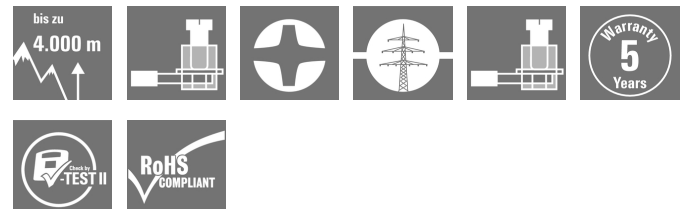
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



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 0675-6-12 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

Version	Surge voltage arrester, Low voltage, Surge protection, Single-phase, TN, TN-S, TT, IT with N, IT without N
Order No.	<a href="#">2619210000</a>
Type	VPU AC I 1+1 440/25 LCF
GTIN (EAN)	4050118634648
Qty.	1 pc(s).

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## Technical data

### Dimensions and weights

Depth	93 mm	Depth (inches)	3.661 inch
Height	96.3 mm	Height (inches)	3.791 inch
Width	72 mm	Width (inches)	2.835 inch
Net weight	25 g		

### Temperatures

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

### Probability of failure

MTBF	15 Years
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### Rated data UL

Voltage type	AC
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### General data

Colour	black	Design	Installation housing; 4TE, Insta IP 20
Operating altitude	≤ 2000 m	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
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## Technical data

### Rated data IEC / EN

Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	100 kA	Discharge current $I_{max}$ (8/20 $\mu$ s) N-PE	100 kA
Discharge current $I_n$ (8/20 $\mu$ s) N-PE	100 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	25 kA
Energy coordination ( $\leq 10$ m)	Type I, Type II, Type III	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 $\mu$ A
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
Low voltage network	Single-phase, TN, TN-S, TT, IT with N, IT without N	Mains voltage	400 V / 690 V
Max. continuous voltage, $U_c$ (AC)	440 V	Max. continuous voltage, $U_c$ (N-PE)	440 V
Number of poles	2	Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 2.5$ kV
Protection level $U_p$ at $I_N$ (N-PE)	$\leq 2.5$ 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	$\leq 25$ ns, $\leq 100$ ns
Short-circuit current rating $I_{SCCR}$	50 kA	Signalling contact	No
Standards	IEC61643-11, EN61643-11	Suitable for	Count-in installation (leakage current free)
Temporary surge voltage (over-voltage) - TOV	762 V	Voltage type	AC

### 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 mm <sup>2</sup>
Clamping range, min.	6 mm <sup>2</sup>	Clamping range, max.	35 mm <sup>2</sup>
Wire cross-section, solid, min.	6 mm <sup>2</sup>	Wire cross-section, solid, max.	35 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	6 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	35 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	6 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm <sup>2</sup>
Connection cross-section, stranded, min.	6 mm <sup>2</sup>	Connection cross-section, stranded, max.	35 mm <sup>2</sup>

### Guarantee

Time interval	5 years
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### Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ECLASS 9.0	27-13-08-05
ECLASS 9.1	27-13-08-05	ECLASS 10.0	27-13-08-05
ECLASS 11.0	27-13-08-05		

### Important note

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). For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V
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**Data sheet****VPU AC I 1+1 440/25 LCF****Weidmüller Interface GmbH & Co. KG**

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Approvals**

Approvals



ROHS

Conform

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Engineering Data

[STEP](#)

Catalogues

[Catalogues in PDF-format](#)

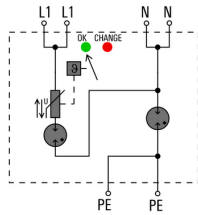
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**Drawings**

**Electric symbol**



Schematic circuit diagram