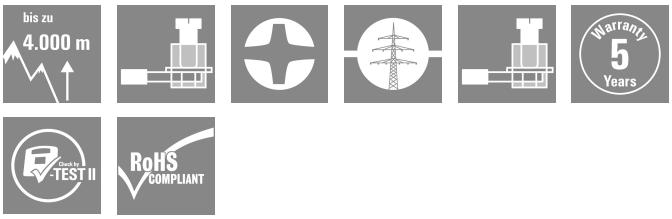
Data sheet

VPU AC I 3 R 440/25 LCF

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

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, with remote contact, TN-C
Order No.	2619170000
Type	VPU AC I 3 R 440/25 LCF
GTIN (EAN)	4050118634617
Qty.	1 items

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Technical data

Approvals

Approvals	
ROHS	Conform

Dimensions and weights

Depth	93 mm	Depth (inches)	3.6614 inch
Height	104.5 mm	Height (inches)	4.1142 inch
Width	108 mm	Width (inches)	4.252 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 a

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Connection data, remote alert

Cross-section for connected wire, solid core, min.	0.14 mm²	Stripping length	8 mm
Connection type	Screw connection, pluggable	Cross-section for connected wire, solid core, max.	1.5 mm²

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	Surge protection, with remote contact	Design	Installation housing; 6 TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	black
Suitable for	Count-in installation (leakage current free)	Protection degree	IP20 in installed state
Mounting rail	TS 35	Operating altitude	≤ 2000 m

Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2

Rated data IEC / EN

Number of poles	4	Leakage current at Un	5 µA
Signalling contact	250 V 1A 1CO	Rated voltage (AC)	400 V
Low voltage network	TN-C	Voltage type	AC
Temporary surge voltage (over-voltage) - TOV	762 V	Response time / fallback time	≤ 25 ns

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Technical data

Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Suitable for	Count-in installation (leakage current free)	Standards	IEC 61643-11, EN 61643-11
Lightning test current Iimp (10/350 µs) (L-PE)	25 kA	Requirements class, acc. to EN 61643-11	T1, T2
Requirements category acc. to IEC 61643-11	Type I, Type II	Max. continuous voltage, Uc (AC)	440 V
Mains voltage	400 V / 690 V	Energy coordination (≤10 m)	Type I, Type II, Type III
Rated load current IL	100 A	Discharge current In (8/20µs) wire-PE	25 kA
Discharge current Imax (8/20µs) wire-PE	100 kA	Protection level Up at IN (L/N-PE)	≤ 2.5 kV
Short-circuit current rating ISCCR	50 kA	Follow-on current extinguishing capability Ifi	Not available due for technical reasons
Integrated back-up fuse	No		

Connection data

Stripping length	13 mm	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.	35 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		

Electrical data

Voltage type	AC

General data

Number of poles	4	Protection degree	IP20 in installed state
Colour	black		

Guarantee

Time interval	5 years

Important note

Product information	For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V
Notes	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).

Classifications

ETIM 8.0	EC001457	ETIM 9.0	EC001457
ETIM 10.0	EC001457	ECLASS 14.0	27-17-12-04
ECLASS 15.0	27-17-12-04		

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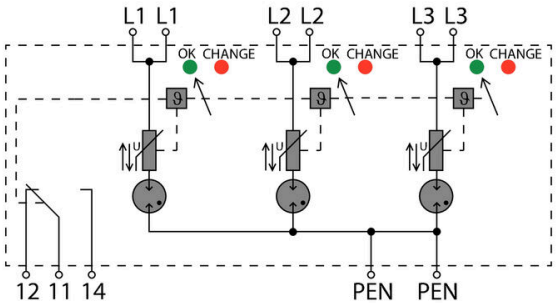
Drawings

Electric symbol



Schematic circuit diagram