

VPU AC I 2 R 275/25 LCF MB**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Type I/II lightning arrester for use upstream of the electrical meter

- With 25 kA (10/350 μ s) suitable for protective zones I, II, III and IV (LPL I/II/III/IV)
- With remote monitoring function, one changeover contact
- Tested according to IEC 61643-11 for type I and II surge protection

General ordering data

Version	Surge voltage arrester, Low voltage, Surge protection, Leakage-current-free, with remote contact, Single-phase, TN-S
Order No.	2774950000
Type	VPU AC I 2 R 275/25 LCF MB
GTIN (EAN)	4064675038887
Qty.	1 items

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	71 mm	Depth (inches)	2.7953 inch
Height	99 mm	Height (inches)	3.8976 inch
Width	70 mm	Width (inches)	2.7559 inch
Net weight	556 g		

Temperatures

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

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 (remote alert), min.	0.14 mm ²	Stripping length	8 mm
Connection type	Screw connection: pluggable	Cross-section for connected wire, solid core (remote alert), max.	1.5 mm ²
Max. torque	0.25 Nm		

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	Surge protection, Leakage-current-free, with remote contact	Design	Installation housing; 4TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	grey
Protection degree	IP20 in installed state	Mounting rail	TS 35
Operating altitude	≤ 2000 m		

Insulation coordination acc. to EN 50178

Surge voltage category	II	Pollution severity	2
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Rated data IEC / EN

Number of poles	2	Leakage current (nominal voltage)	1 µA
Signalling contact	250 V 1A 1CO	Rated voltage (AC)	230 V
Low voltage network	Single-phase, TN-S	Voltage type	AC
Temporary surge voltage (overvoltage)	438 V	Response time / fallback time	≤ 25 ns
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Standards	IEC 61643-11, EN 61643-11	Lightning test current limp (10/350 µs) (L-PE)	25 kA

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Requirements class, acc. to EN 61643-11	T1, T2	Requirements category acc. to IEC 61643-11	Type I, Type II
Max. continuous voltage, U_c (AC)	275 V	Energy coordination (≤ 10 m)	Type I, Type II, Type III
Rated load current	100 A	Discharge current I_n (8/20 μ s) wire-PE	25 kA
Discharge current I_{max} (8/20 μ s) wire-PE	100 kA	SPD type	T1, T2
Protection level Up at IN (L/N-PE)	≤ 1.5 kV	Short-circuit current rating ISCCR	50 kA
Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons	Integrated back-up fuse	No
PE conductor current	1 μ A		

Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Type of connection	Screw connection	Stripping length, rated connection	18 mm
Tightening torque, min.	3 Nm	Tightening torque, max.	4.5 Nm
Clamping range, rated connection	16 mm ²	Clamping range, min.	1.5 mm ²
Clamping range, max.	35 mm ²	Wire cross-section, solid, min.	1.5 mm ²
Wire cross-section, solid, max.	35 mm ²	Wire connection cross section, finely stranded, min.	1.5 mm ²
Wire connection cross-section, finely stranded, max.	25 mm ²	Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), min.	1.5 mm ²
Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), max.	35 mm ²	Connection cross-section, stranded, min.	1.5 mm ²
Connection cross-section, stranded, max.	35 mm ²		

Electrical data

Voltage type	AC
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General data

Number of poles	2	Protection degree	IP20 in installed state
Colour	grey		

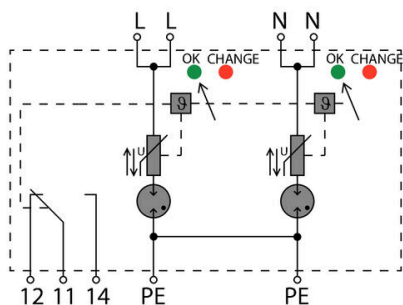
Guarantee

Time interval	5 years
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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		

Drawings



Principle circuit diagram