

VPU AC I 1+1 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, TT, IT with N, IT without N
Order No.	2775000000
Type	VPU AC I 1+1 R 275/25 LCF MB
GTIN (EAN)	4064675039754
Qty.	1 pc(s).
Replacement parts	2855300000

Creation date May 11, 2025 10:18:08 PM CEST

Catalogue status 26.04.2025 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	71 mm	Depth (inches)	2.795 inch
Height	99 mm	Height (inches)	3.898 inch
Width	70 mm	Width (inches)	2.756 inch
Net weight	490 g		

Temperatures

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

Connection data, remote alert

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

General data

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

Insulation coordination acc. to EN 50178

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

Discharge current $I_{\max}$ (8/20μs) N-PE	100 kA	Discharge current $I_{\max}$ (8/20μs) wire-PE	100 kA
Discharge current I_n (8/20μs) N-PE	50 kA	Discharge current I_n (8/20μs) wire-PE	25 kA
Energy coordination (≤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	No Fuse necessary ≤250 A gG, 250 A gL (if back up fuse > 250 A)	Integrated back-up fuse	No
Leakage current at U_n	1 μA	Lightning test current I_{imp} (10/350 μs) (L-PE)	25 kA
Lightning test current, I_{imp} (10/350 μs) (N-PE)	50 kA	Low voltage network	Single-phase, TN, TT, IT with N, IT without N
Max. continuous voltage, U_c (AC)	275 V	Max. continuous voltage, U_c (N-PE)	255 V
Number of poles	2	PE conductor current I_{PE}	1 μA
Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV	Protection level U_p at I_N (N-PE)	≤ 1.5 kV
Rated load current I_L	100 A	Rated voltage (AC)	230 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	SPD type	T1, T2
Short-circuit current rating I_{SCCR}	50 kA	Signalling contact	250 V 1A 1CO
Standards	IEC 61643-11, EN 61643-11	Temporary surge voltage (over-voltage) - TOV	438 V
Voltage type	AC		

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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, AEH (DIN 46228-1), min.	1.5 mm ²
Conductor cross-section, flexible, AEH (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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Guarantee

Time interval	5 years
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Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	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	ECLASS 12.0	27-17-90-90
ECLASS 13.0	27-17-90-90	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		

Environmental Product Compliance

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

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).
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Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/
ROHS	Conform

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Technical data

Downloads

Approval/Certificate/Document of Conformity

[EU_Konformitätserklärung / EU_Declaration_of_Conformity](#)

Engineering Data

[CAD data – STEP](#)

User Documentation

[Beipackzettel / Instruction sheet](#)

Catalogues

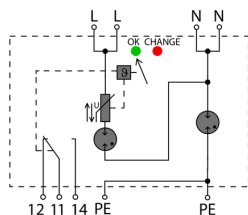
[Catalogues in PDF-format](#)

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Drawings



Principle circuit diagram

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www.weidmueller.com**Accessories****Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

General ordering data

Type	SDIK PH1 X 80	Version
Order No.	2749890000	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	

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Replacement parts

VPU Series



Extensive accessories round off the product range

General ordering data

Type	PLUG VPU AC
Order No.	2855300000
GTIN (EAN)	4064675533283
Qty.	10 pc(s).