

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 October 2, 2024 5:45:34 PM CEST

Catalogue status 28.09.2024 / We reserve the right to make technical changes.

VPU AC I 1+1 R 275/25 LCF MB

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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	525 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

Colour	grey	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	UL 94 flammability rating	V-0
Version	Surge protection, Leakage-current-free, with remote contact		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	II
--------------------	---	------------------------	----

VPU AC I 1+1 R 275/25 LCF MB

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Rated data IEC / EN

Discharge current I_{\max} (8/20 μ s) N-PE	100 kA
Discharge current I_n (8/20 μ s) N-PE	50 kA
Energy coordination (≤ 10 m)	Type I, Type II, Type III
Frequency range, max.	60 Hz
Fuse	No Fuse necessary ≤ 250 A gG, 250 A gL (if back up fuse > 250 A)
Lightning test current I_{imp} (10/350 μ s) (L-PE)	25 kA
Low voltage network	Single-phase, TN, TT, IT with N, IT without N
Max. continuous voltage, U_c (N-PE)	255 V
PE conductor current I_{PE}	1 μ A
Protection level U_p at I_N (N-PE)	≤ 1.5 kV
Rated voltage (AC)	230 V
Requirements class, acc. to EN 61643-11	T1, T2
SPD type	T1, T2
Signalling contact	250 V 1A 1CO
Temporary surge voltage (over-voltage) - TOV	438 V

Discharge current I_{\max} (8/20 μ s) wire-PE	100 kA
Discharge current I_n (8/20 μ s) wire-PE	25 kA
Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Frequency range, min.	50 Hz
Leakage current at U_n	1 μ A
Lightning test current, I_{imp} (10/350 μ s) (N-PE)	50 kA
Max. continuous voltage, U_c (AC)	275 V
Number of poles	2
Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV
Rated load current I_L	100 A
Requirements category acc. to IEC 61643-11	Type I, Type II
Response time	≤ 25 ns
Short-circuit current rating I_{SCCR}	50 kA
Standards	IEC 61643-11, EN 61643-11
Voltage type	AC

Connection data

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

Wire connection method	Clamping yoke
Stripping length, rated connection	18 mm
Tightening torque, max.	4.5 Nm
Clamping range, min.	1.5 mm ²
Wire cross-section, solid, min.	1.5 mm ²
Wire connection cross section, finely stranded, min.	1.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1.5 mm ²
Connection cross-section, stranded, min.	1.5 mm ²

Guarantee

Time interval	5 years
---------------	---------

Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	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		

VPU AC I 1+1 R 275/25 LCF MB**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Technical data****Environmental Product Compliance**

REACH SVHC

/

RoHS Compliance Status

Compliant without exemption

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).

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[EU_Konformitätserklärung / EU_Declaration_of_Conformity](#)

Engineering Data

[CAD data – STEP](#)

User Documentation

[Beipackzettel / Instruction sheet](#)

Catalogues

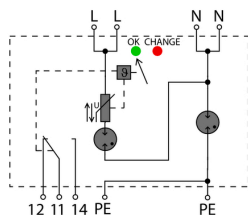
[Catalogues in PDF-format](#)

VPU AC I 1+1 R 275/25 LCF MB

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

www.weidmueller.com

Drawings



Principle circuit diagram

VPU AC I 1+1 R 275/25 LCF MB**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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).	

VPU AC I 1+1 R 275/25 LCF MB

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

www.weidmueller.com

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).