

VPU AC I 3+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, TN-C-S, TN-S, TT, IT with N, IT without N
Order No.	2638070000
Type	VPU AC I 3+1 R 275/25 LCF MB
GTIN (EAN)	4050118679496
Qty.	2 pc(s).
Replacement parts	2855300000

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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	144 mm	Width (inches)	5.669 inch
Mounting dimension - height	76 mm	Net weight	1,079 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; 8 TE, 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
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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	100 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	TN-C-S, TN-S, TT, IT with N, IT without N
Max. continuous voltage, U_c (AC)	275 V
Number of poles	4
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	≤ 100 ns, ≤ 25 ns
Short-circuit current rating I_{SCCR}	50 kA
Standards	IEC61643-11, EN61643-11
Voltage type	3-phase 230/400 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)	100 kA
Mains voltage	230 V / 400 V
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

Connection data

Stripping length	15 mm
Type of connection	Screw connection
Tightening torque, min.	2 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	15 mm
Tightening torque, max.	3 Nm
Clamping range, min.	4 mm ²
Wire cross-section, solid, min.	4 mm ²
Wire connection cross section, finely stranded, min.	4 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	4 mm ²
Connection cross-section, stranded, min.	4 mm ²

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
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

Environmental Product Compliance

REACH SVHC	/
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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](#)

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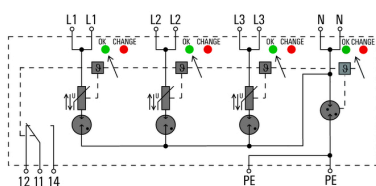
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Drawings



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).