

VPU AC I 3+1 R 275/25 LCF MB**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Illustration similar

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
Order No.	2638070000
Type	VPU AC I 3+1 R 275/25 LCF MB
GTIN (EAN)	4050118679496
Qty.	1 pc(s).

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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
Mounting dimension - height	76 mm	Net weight	1,079 g
Width	144 mm	Width (inches)	5.669 inch

Temperatures

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

Rated data UL

Operating altitude	≤ 2000 m
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Connection data, remote alert

Connection type	Screw connection: pluggable	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	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

Operating altitude	≤ 2000 m	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) wire-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) (N-PE)	100 kA
Mains voltage	230 V / 400 V
Max. continuous voltage, U_c (N-PE)	255 V
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) N-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
Lightning test current I_{imp} (10/350 μ s) (L-PE)	25 kA
Low voltage network	TN-C-S, TN-S, TT
Max. continuous voltage, U_c (AC)	275 V
Number of poles	4
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

Wire connection method	Clamping yoke	Type of connection	Screw connection
Stripping length, rated connection	15 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	3 Nm	Clamping range, rated connection	16 mm ²
Clamping range, min.	4 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	4 mm ²	Wire cross-section, solid, max.	35 mm ²
Wire connection cross section, finely stranded, min.	4 mm ²	Wire connection cross section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	4 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm ²
Connection cross-section, stranded, min.	4 mm ²	Connection cross-section, stranded, max.	35 mm ²

Guarantee

Time interval	5 years
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Classifications

ETIM 6.0	EC000941	ETIM 7.0	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

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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Technical data

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	EAC VPU SERIES Declaration of Conformity
Engineering Data	STEP
User Documentation	IS VPU AC I 275V 25kA LCF MB
Brochure/Catalogue	Catalogues in PDF-format

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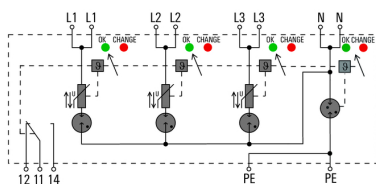
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Drawings



Principle circuit diagram