

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

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

[www.weidmueller.com](http://www.weidmueller.com)



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

- With 25 kA (10/350  $\mu$ 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
Order No.	<a href="#">2774940000</a>
Type	VPU AC I 1 R 275/25 LCF MB
GTIN (EAN)	4064675038863
Qty.	1 items

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

Depth	71 mm	Depth (inches)	2.7953 inch
Height	99 mm	Height (inches)	3.8976 inch
Width	35 mm	Width (inches)	1.378 inch
Net weight	286 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, min.	0.14 mm <sup>2</sup>	Stripping length	8 mm
Connection type	Screw connection: pluggable	Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>
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; 2TE, 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	1	Leakage current at Un	1 µA
Signalling contact	250 V 1A 1CO	Rated voltage (AC)	230 V
Low voltage network	Single-phase, TN	Voltage type	AC
Temporary surge voltage (over-voltage) - TOV	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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### Technical data

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 ( $\leq 10$ m)	Type I, Type II, Type III
Rated load current $I_L$	100 A	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	25 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	100 kA	SPD type	T1, T2
Protection level $U_p$ at IN (L/N-PE)	$\leq 1.5$ 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 IPE	1 $\mu$ 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 <sup>2</sup>	Clamping range, min.	1.5 mm <sup>2</sup>
Clamping range, max.	35 mm <sup>2</sup>	Wire cross-section, solid, min.	1.5 mm <sup>2</sup>
Wire cross-section, solid, max.	35 mm <sup>2</sup>	Wire connection cross section, finely stranded, min.	1.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	25 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm <sup>2</sup>	Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>
Connection cross-section, stranded, max.	35 mm <sup>2</sup>		

### Electrical data

Voltage type	AC
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### General data

Number of poles	1	Protection degree	IP20 in installed state
Colour	grey		

### Guarantee

Time interval	5 years
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### Classifications

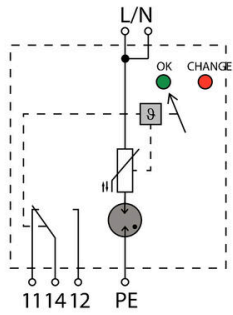
ETIM 8.0	EC001457	ETIM 9.0	EC001457
ETIM 10.0	EC001457	ECLASS 14.0	27-17-12-04
ECLASS 15.0	27-17-12-04		

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**Drawings**



Principle circuit diagram

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## Accessories

### Crosshead screwdriver Phillips

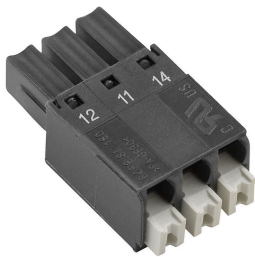


VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

#### General ordering data

Type	SDIK PH1 X 80	Version	
Order No.	<a href="#">2749890000</a>	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1	
GTIN (EAN)	4050118897098		
Qty.	1 ST		

### VPU Series



Extensive accessories round off the product range

#### General ordering data

Type	PLUG VPU AC	Version	
Order No.	<a href="#">2855300000</a>		
GTIN (EAN)	4064675533283		
Qty.	10 ST		