

## VPU AC I 3+1 R 255/12.5 LCF MB

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

www.weidmueller.com



### Type I + II lightning and surge protection

- High discharge current limp with 12.5 kA (10/350  $\mu$ s)
- Low protection level Up of 1.5 kV
- Suitable for protection classes III and IV (LPL III/IV)
- Leakage current free series for use in front of the electrical meter
- Tested in accordance with IEC 61643-11
- Variants with and without remote monitoring function

### General ordering data

Version	, low voltage, Surge protection, Surge protection I / II, TN-C-S, TN-S, TT, IT with N, IT without N
Order No.	<a href="#">2976630000</a>
Type	VPU AC I 3+1 R 255/12.5 LCF MB
GTIN (EAN)	4099986825901
Qty.	1 items

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## Technical data

### Approvals

Approvals



ROHS Conform

### Dimensions and weights

Depth	65 mm	Depth (inches)	2.5591 inch
Height	105 mm	Height (inches)	4.1338 inch
Width	72 mm	Width (inches)	2.8346 inch
Net weight	432 g		

### Temperatures

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

### Environmental Product Compliance

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

### General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	low voltage, Surge protection, Surge protection I / II	Design	Installation housing; 4TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	black
Protection degree	IP20 in installed state	Mounting rail	TS 35
Operating altitude	≤ 4000 m		

### Insulation coordination acc. to EN 50178

Surge voltage category	I, III
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### Rated data IEC / EN

Number of poles	4	Combined pulse UOC	6 kV
Leakage current at Un	0 µA	Signalling contact	250 V 1A 1CO
Rated voltage (AC)	230 V	Low voltage network	TN-C-S, TN-S, TT, IT with N, IT without N
Protection level Up at IN (N-PE)	≤ 1.5 kV	Voltage type	AC
Temporary surge voltage (over-voltage) - TOV	442 V	Fuse protection	No Fuse necessary ≤ 160 A gG
Response time / fallback time	<100 ns	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Standards	IEC 61643-11, EN 61643-11
Lightning test current Iimp (10/350 µs) (L-PE)	12.5 kA	Lightning test current, Iimp (10/350 µs) (N-PE)	50 kA
Requirements class, acc. to EN 61643-11	T1, T2	Requirements category acc. to IEC 61643-11	Type I, Type II
Max. continuous voltage, Uc (AC)	255 V	Discharge current I <sub>max</sub> (8/20µs) N-PE	100 kA

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### Technical data

Discharge current $I_n$ (8/20 $\mu$ s) N-PE	50 kA	Energy coordination ( $\leq 10$ m)	Type I, Type II, Type III
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	20 kA	Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	50 kA
Protection level Up at $I_N$ (L/N-PE)	$\leq 1.5$ kV	Short-circuit current rating ISCCR	25 kA
Discharge current (type III)	3 kA	Follow-on current extinguishing capability $I_{fi}$	25 kA
Integrated back-up fuse	No		

### Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Type of connection	Screw connection	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), max.	25 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	4	Protection degree	IP20 in installed state
Colour	black		

### Guarantee

Time interval	5 years
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### Classifications

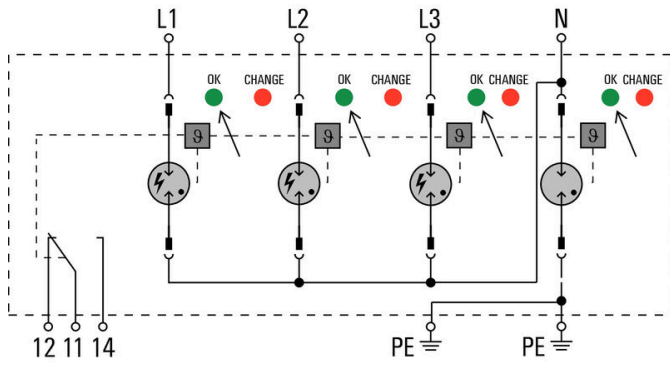
ETIM 8.0	EC001457	ETIM 9.0	EC001457
ETIM 10.0	EC001457	ECLASS 14.0	27-17-12-04
ECLASS 15.0	27-17-12-04		

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Drawings



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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		

### Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

#### General ordering data

Type	ESG 6/15 K MC NE WS	Version	
Order No.	<a href="#">1880100000</a>	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive	
GTIN (EAN)	4032248478781		
Qty.	200 ST		

### VPU Series



Extensive accessories round off the product range

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## Accessories

### General ordering data

Type	VPU AC EXTENDER	Version
Order No.	<a href="#">3123500000</a>	
GTIN (EAN)	4099987270175	
Qty.	8 ST	
Type	PLUG VPU AC	Version
Order No.	<a href="#">2855300000</a>	
GTIN (EAN)	4064675533283	
Qty.	10 ST	