

**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](http://www.weidmueller.com)**Type I + II lightning and surge protection**

- High discharge current  $I_{imp}$  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-S, TT
Order No.	<a href="#">2976630000</a>
Type	VPU AC I 3+1 R 255/12.5 LCF MB
GTIN (EAN)	4099986825901
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Depth	65 mm	Depth (inches)	2.559 inch
Height	105 mm	Height (inches)	4.134 inch
Width	72 mm	Width (inches)	2.835 inch
Net weight	432 g		

## Temperatures

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

## General data

Colour	black	Design	Installation housing; 4TE, Insta IP 20
Operating altitude	≤ 4000 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	low voltage, Surge protection, Surge protection I / II		

## Insulation coordination acc. to EN 50178

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

Discharge current $I_{\max}$ (8/20μs) N-PE	100 kA	Discharge current $I_{\max}$ (8/20μs) wire-PE	50 kA
Discharge current $I_n$ (8/20μs) N-PE	50 kA	Discharge current $I_n$ (8/20μs) wire-PE	20 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	Follow-on current extinguishing capability $I_{fi}$	25 kA
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	No Fuse necessary ≤250 A gG	Leakage current at $U_n$	0 μA
Lightning test current $I_{\text{imp}}$ (10/350 μs) (L-PE)	12.5 kA	Lightning test current, $I_{\text{imp}}$ (10/350 μs) (N-PE)	50 kA
Low voltage network	TN-S, TT	Max. continuous voltage, $U_c$ (AC)	255 V
Number of poles	4	Protection level $U_p$ at $I_N$ (L/N-PE)	≤ 1500 V
Protection level $U_p$ at $I_N$ (N-PE)	≤ 1500 V	Rated voltage (AC)	240 V
Requirements category acc. to IEC 61643-11	Type I, Type II	Requirements class, acc. to EN 61643-11	T1, T2
Response time	<100 ns	Short-circuit current rating $I_{\text{SCCR}}$	25 kA
Signalling contact	Yes	Standards	IEC 61643-11, EN 61643-11
Temporary surge voltage (over-voltage) - TOV	442 V	Voltage type	AC

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## Technical data

## Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Type of connection	Screw connection	Tightening torque, min.	2 Nm
Tightening torque, max.	4.5 Nm	Clamping range, min.	4 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.	35 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>

## 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

## Approvals

Approvals



ROHS	Conform
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## Downloads

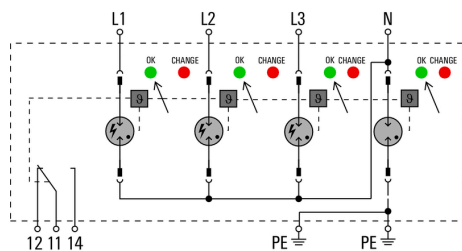
Approval/Certificate/Document of Conformity	<a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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# Drawings



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

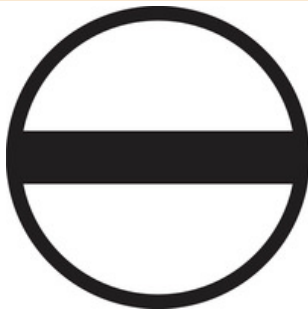
Advantages at a glance:

- 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 pc(s).	

**Slotted screwdriver**

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

**General ordering data**

Type	SDIS 1.0X5.5X125	Version
Order No.	<a href="#">2749850000</a>	Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade
GTIN (EAN)	4050118897050	thickness (A): 1 mm
Qty.	1 pc(s).	

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[www.weidmueller.com](http://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.	<a href="#">2749890000</a>	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	