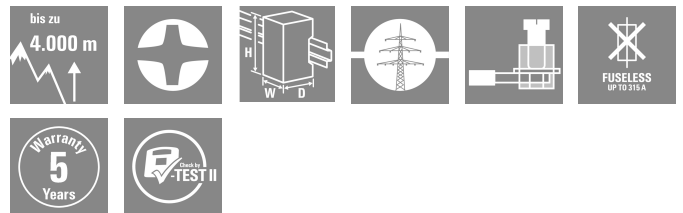


VPU AC I 3+1 R 255/12.5 LCF MB
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Type I + II lightning and surge protection

- High discharge current limit with 12.5 kA (10/350 μ 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.	2976630000
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 (nominal voltage)	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 (overvoltage)	442 V	Fuse protection	No Fuse necessary ≤250 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 limp (10/350 µs) (L-PE)	12.5 kA	Lightning test current, limp (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 _{max} (8/20µs) N-PE	100 kA

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Discharge current I_n (8/20 μ s) N-PE	50 kA	Energy coordination (≤ 10 m)	Type I, Type II, Type III
Discharge current I_n (8/20 μ s) wire-PE	20 kA	Discharge current I_{max} (8/20 μ s) wire-PE	50 kA
Protection level Up at I_n (L/N-PE)	≤ 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 ²
Clamping range, min.	1.5 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	1.5 mm ²	Wire cross-section, solid, max.	35 mm ²
Wire connection cross section, finely stranded, min.	1.5 mm ²	Wire connection cross-section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), max.	25 mm ²	Connection cross-section, stranded, min.	1.5 mm ²
Connection cross-section, stranded, max.	35 mm ²		

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

