

VPU AC I 4 255/12.5 LCF MB

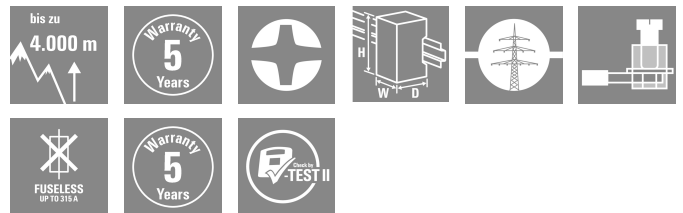
Weidmüller Interface GmbH & Co. KG

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 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
Order No.	2976640000
Type	VPU AC I 4 255/12.5 LCF MB
GTIN (EAN)	4099986825918
Qty.	1 items

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	65 mm	Depth (inches)	2.5591 inch
Height	90 mm	Height (inches)	3.5433 inch
Width	72 mm	Width (inches)	2.8346 inch
Net weight	416 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
Humidity	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	No
Rated voltage (AC)	230 V	Low voltage network	TN-C-S, TN-S
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)	12.5 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	PE conductor current	5 μ A

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		

Drawings

