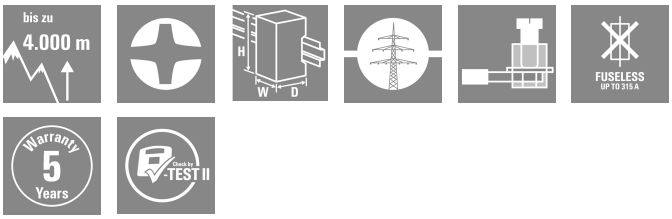
Data sheet

VPU AC I 3 255/12.5 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 µs)
- 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
Order No.	2976600000
Type	VPU AC I 3 255/12.5 LCF MB
GTIN (EAN)	4099986825871
Qty.	1 items

Data sheet

VPU AC I 3 255/12.5 LCF MB

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

www.weidmueller.com

Technical data

Approvals

Approvals	
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	390 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

Rated data IEC / EN

Number of poles	3	Combined pulse UOC	6 kV
Leakage current at Un	0 µA	Signalling contact	No
Rated voltage (AC)	230 V	Low voltage network	TN-C
Voltage type	AC	Temporary surge voltage (over-voltage) - TOV	442 V
Fuse protection	No Fuse neccessary ≤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
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 Imax (8/20µs) N-PE	100 kA
Discharge current In (8/20µs) N-PE	50 kA	Energy coordination (≤10 m)	Type I, Type II, Type III

VPU AC I 3 255/12.5 LCF MB

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

www.weidmueller.com

Technical data

Discharge current In (8/20µs) wire-PE	20 kA	Discharge current Imax (8/20µs) wire-PE	50 kA
Protection level Up at IN (L/N-PE)	≤ 1.5 kV	Short-circuit current rating ISCCR	25 kA
Discharge current (type III)	3 kA	Follow-on current extinguishing capability Ifi	25 kA
Integrated back-up fuse	No	PE conductor current IPE	5 µA

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 mm²
Clamping range, min.	1.5 mm²	Clamping range, max.	35 mm²
Wire cross-section, solid, min.	1.5 mm²	Wire cross-section, solid, max.	35 mm²
Wire connection cross section, finely stranded, min.	1.5 mm²	Wire connection cross section, finely stranded, max.	25 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm²	Connection cross-section, stranded, min.	1.5 mm²
Connection cross-section, stranded, max.	35 mm²		

Electrical data

Voltage type	AC

General data

Number of poles	3	Protection degree	IP20 in installed state
Colour	black		

Guarantee

Time interval	5 years

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		

VPU AC I 3 255/12.5 LCF MB

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

www.weidmueller.com

Drawings

