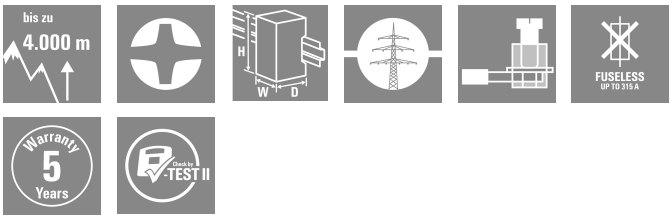
Data sheet

# VPU AC I 1+1 255/12.5 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, Single-phase, TN, TT, IT with N, IT without N |
| Order No. | 2976580000 |
| Type | VPU AC I 1+1 255/12.5 LCF MB |
| GTIN (EAN) | 4099986825857 |
| Qty. | 1 items |

# Data sheet

## VPU AC I 1+1 255/12.5 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 | 36 mm | Width (inches) | 1.4173 inch |
| Net weight | 228 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% |

### Connection data, remote alert

| | |
|---|---|
| Connection type | PUSH IN |

### 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; 2TE, 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 | 2 | Combined pulse UOC | 6 kV |
| Leakage current (nominal voltage) | 0 µA | Signalling contact | No |
| Rated voltage (AC) | 230 V | Low voltage network | Single-phase, TN, 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 neccessary ≤250 A gG |
| Response time / fallback time | <100 ns | Frequency range, max. | 60 Hz |

# Data sheet

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

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

www.weidmueller.com

# Technical data

| | | | |
|---|---|---|---|
| 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 | Continuous voltage (N / PE), max. | 305 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 | 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 | 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 with wire end ferrule (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 | 2 | 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 1+1 255/12.5 LCF MB

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

www.weidmueller.com

## Drawings

