

Surge protection VPU III R 24V/4KV AC/DC

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



Type III surge protection

- Compact Type III arrester for AC/DC protection acc. to IEC 61643-11:2012
- Suitable for protecting terminals
- Installed in the vicinity of the equipment to be protected
- Can be used as single-port arrester when nominal current is greater than 16 A

General ordering data

| | |
|------------|--|
| Type | VPU III R 24V/4KV AC/DC |
| Order No. | 135158000 |
| Version | Surge protection, Low voltage, Type III, 2 kA , with telecomm. contact, $U_p \leq 890$ V |
| GTIN (EAN) | 4050118158557 |
| Qty. | 1 pc(s). |

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Technische Daten

Dimensions and weights

| | | | |
|-------|---------|------------|--------|
| Width | 18 mm | Height | 102 mm |
| Depth | 71.5 mm | Net weight | 68 g |

Temperatures

| | | | |
|-----------------------|-----------------|---------------------|-----------------|
| Operating temperature | -40 °C...+70 °C | Storage temperature | -40 °C...+80 °C |
|-----------------------|-----------------|---------------------|-----------------|

General data

| | | | |
|---------------------------|--|--------------------------|--|
| Acoustic signal | No | Colour | Red |
| Design | Installation housing; 1TE, Insta IP 20 | Lightning arrester | Yes |
| Mounting rail | TS 35, TS 35 x 15, TS 35 x 7.5 | Optical function display | Green LED = OK, Red LED = arrester is defective, replace |
| Protection degree | IP 20 | Segment | Power distribution |
| UL 94 flammability rating | V-0 | | |

Insulation coordination acc. to EN 50178

| | | | |
|--------------------|---|------------------------|----|
| Pollution severity | 2 | Surge voltage category | II |
|--------------------|---|------------------------|----|

Interference voltage

| | | | |
|---|-------|---|-------|
| On output side (L - N) at max. discharge current; smaller | 230 V | On output side (L /N - PE) at max. discharge current; smaller | 890 V |
|---|-------|---|-------|

technical data

| | | | |
|---|----------------|--|-------------------------|
| Rated voltage (AC) | 24 V | Rated voltage (DC) | 32 V |
| Rated current | 16 A | Rated voltage (AC/DC) | 24 V |
| Max. continuous voltage, U _c (AC) | 32 V | Max. continuous voltage, U _c (DC) | 53 V |
| Operating current, I _{max} | 16 A | Highest continuous voltage (AC) | 24 V |
| Temporary surge voltage (over-voltage) - TOV | 45 V | Combined pulse U _{OC} | 4 kV |
| Fuse, max. | 16 A | Short-circuit current rating I _{SCCR} | 1.5 kA |
| Discharge current, nominal, per path, (8/20 μs) | 2 kA | Discharge current, max. (8/20 μs) | 2 kA |
| Protection level U _p (typ.) | ≤ 890 V | Leakage current at U _n | 30 μA |
| Signalling contact | 250 V 1 A 1 NC | Standards | IEC61643-11, EN61643-11 |
| Colour | Red | Requirements class, acc. to EN 61643-11 | T3 |
| Requirements category acc. to IEC 61643-11 | Type III | Response time | < 100 ns |
| Mains frequency at 250 V _{max} | 50...60 Hz | | |

Technical data, signal line

| | |
|------------------------------|------|
| Rated current I _N | 16 A |
|------------------------------|------|

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Connection data

| | | | |
|---|---------------------|---|---------------------|
| Clamping range, rated connection | 2.5 mm ² | Clamping range, rated connection, min. | 0.5 mm ² |
| Clamping range, rated connection, max. | 2.5 mm ² | Wire connection cross section, stranded, rated connection, min. | 0.5 mm ² |
| Wire connection cross section, stranded, rated connection, max. | 2.5 mm ² | Tightening torque, min. | 0.4 Nm |
| Tightening torque, max. | 0.5 Nm | Stripping length, rated connection | 7 mm |
| Wire connection cross section, finely stranded, max. | 2.5 mm ² | | |

Connection data, remote alert

| | | | |
|---|---------------------|---|---------------------|
| Connection type [remote alert] | Screw connection | Max. torque [remote alert] | 0.22 Nm |
| Stripping length [remote alert] | 5 mm | Cross-section for connected wire, solid core, min. [remote alert] | 0.2 mm ² |
| Cross-section for connected wire, solid core, max. [remote alert] | 1.5 mm ² | | |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC000941 | UNSPSC | 30-21-19-21 |
| eClass 5.1 | 27-13-08-01 | eClass 6.2 | 27-13-08-01 |
| eClass 7.1 | 27-14-02-01 | | |

Approvals

Approvals



ROHS Conform

Downloads

| | |
|---------------------------|-----------------------------------|
| Package insert | Instruction sheet |
| Declaration of Conformity | CE document |
| EPLAN | 1351580000.ema |
| 3D Modell | |

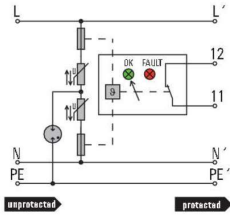
Datenblatt

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Zeichnungen

Electric symbol



Circuit diagram