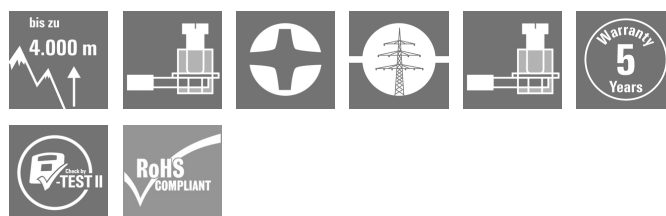


VPU AC I 1+1 R 440/25 LCF**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Weidmüller VPU I (Type I), VPU II (Type II) and VPU III (Type III) surge protection products effectively reduce the interference coupling that can occur due to transient surge voltages, even significantly below the limits prescribed by insulation co-ordination according to EN 60664-3 / DIN VDE 0110-3. This means that the whole installation is exposed to fewer malfunctions. The arresters are co-ordinated using technical means. This means that decoupling between Types I, II and III is unnecessary. The arresters are tested according to product standard IEC 61643-11 / DIN EN 61643-11 and can be installed in systems according to IEC 61643-12 / VDE 0675-6-12 and IEC 62305-4 / VDE 0185-4. This lightning and surge protection device is suited for installation in power supply systems. Weidmüller offers different products depending on the particular mains network type and voltage level. A special Type I and Type II protective device is even available for photovoltaic applications.

General ordering data

| | |
|-------------------|---|
| Version | Surge voltage arrester, Low voltage, Surge protection, with remote contact, Single-phase, TN, TN-S, TT, IT with N, IT without N |
| Order No. | 2619220000 |
| Type | VPU AC I 1+1 R 440/25 LCF |
| GTIN (EAN) | 4050118634655 |
| Qty. | 1 pc(s). |
| Replacement parts | 2855300000 |

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Technical data

Dimensions and weights

| | | | |
|------------|----------|-----------------|------------|
| Depth | 93 mm | Depth (inches) | 3.661 inch |
| Height | 104.5 mm | Height (inches) | 4.114 inch |
| Width | 72 mm | Width (inches) | 2.835 inch |
| Net weight | 25 g | | |

Temperatures

| | | | |
|---------------------|-----------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...85 °C |
| Humidity | 5 - 95% rel. humidity | | |

Probability of failure

| | |
|------|------|
| MTBF | 15 a |
|------|------|

Connection data, remote alert

| | | | |
|--|------------------------------|--|---------------------|
| Connection type | Screw connection, plug-gable | Cross-section for connected wire, solid core, max. | 1.5 mm ² |
| Cross-section for connected wire, solid core, min. | 0.14 mm ² | Stripping length | 8 mm |

General data

| | | | |
|---------------------------|-------------------------|--------------------------|---|
| Colour | black | Design | Installation housing; 4TE, Insta IP 20 |
| Operating altitude | ≤ 2000 m | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree | IP20 in installed state | Rail | TS 35 |
| Segment | Power distribution | Suitable for | Count-in installation (leakage current free) |
| UL 94 flammability rating | V-0 | Version | Surge protection, with remote contact |

Insulation coordination acc. to EN 50178

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

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Technical data

Rated data IEC / EN

| | | | |
|---|---|--|--|
| Discharge current I_{\max} (8/20 μ s) N-PE | 100 kA | Discharge current I_{\max} (8/20 μ s) wire-PE | 100 kA |
| Discharge current I_n (8/20 μ s) N-PE | 100 kA | Discharge current I_n (8/20 μ s) wire-PE | 25 kA |
| Energy coordination (≤ 10 m) | Type I, Type II, Type III | Follow-on current extinguishing capability I_{fi} | Not available due for technical reasons |
| Frequency range, max. | 60 Hz | Frequency range, min. | 50 Hz |
| Fuse | 250 A gL (if back up fuse > 250 A) | Leakage current at U_n | 5 μ A |
| Lightning test current I_{imp} (10/350 μ s) (L-PE) | 25 kA | Lightning test current, I_{imp} (10/350 μ s) (N-PE) | 100 kA |
| Low voltage network | Single-phase, TN, TN-S, TT, IT with N, IT without N | Mains voltage | 400 V / 690 V |
| Max. continuous voltage, U_c (AC) | 440 V | Max. continuous voltage, U_c (N-PE) | 440 V |
| Number of poles | 2 | Protection level U_p at I_N (L/N-PE) | ≤ 2.5 kV |
| Protection level U_p at I_N (N-PE) | ≤ 2.5 kV | Rated load current I_L | 100 A |
| Rated voltage (AC) | 400 V | Requirements category acc. to IEC 61643-11 | Type I, Type II |
| Requirements class, acc. to EN 61643-11 | T1, T2 | Response time | ≤ 25 ns, ≤ 100 ns |
| Short-circuit current rating I_{SCCR} | 50 kA | Signalling contact | 250 V 1A 1CO |
| Standards | IEC61643-11, EN61643-11 | Suitable for | Count-in installation (leakage current free) |
| Temporary surge voltage (over-voltage) - TOV | 762 V | Voltage type | AC |

Connection data

| | | | |
|--|--------------------|--|-------------------|
| Stripping length | 13 mm | Wire connection method | Screw connection |
| Type of connection | Screw connection | Stripping length, rated connection | 13 mm |
| Tightening torque, min. | 2 Nm | Tightening torque, max. | 3 Nm |
| Clamping range, rated connection | 16 mm ² | Clamping range, min. | 6 mm ² |
| Clamping range, max. | 35 mm ² | Wire cross-section, solid, min. | 6 mm ² |
| Wire cross-section, solid, max. | 35 mm ² | Wire connection cross section, finely stranded, min. | 6 mm ² |
| Wire connection cross section, finely stranded, max. | 35 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 6 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 35 mm ² | Connection cross-section, stranded, min. | 6 mm ² |
| Connection cross-section, stranded, max. | 35 mm ² | | |

Guarantee

| | |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000941 | ETIM 7.0 | EC000941 |
| ETIM 8.0 | EC000941 | ETIM 9.0 | EC000941 |
| ECLASS 9.0 | 27-13-08-05 | ECLASS 9.1 | 27-13-08-05 |
| ECLASS 10.0 | 27-13-08-05 | ECLASS 11.0 | 27-13-08-05 |
| ECLASS 12.0 | 27-17-90-90 | ECLASS 13.0 | 27-17-90-90 |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| REACH SVHC | / |
| RoHS Compliance Status | Compliant without exemption |

Creation date July 25, 2024 12:29:01 PM CEST

Catalogue status 13.07.2024 / We reserve the right to make technical changes.

VPU AC I 1+1 R 440/25 LCF**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com**Technical data****Important note**

| | |
|---------------------|---|
| Product information | Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018). For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V |
| Notes | Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018). |

Approvals

Approvals



ROHS

Conform

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU_Konformitätserklärung / EU_Declaration_of_Conformity |
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |

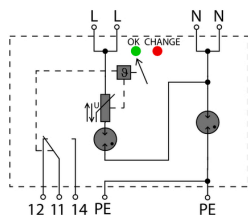
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Drawings

Electric symbol



Schematic circuit diagram

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Replacement parts

VPU Series



Extensive accessories round off the product range

General ordering data

| | |
|------------|----------------------------|
| Type | PLUG VPU AC |
| Order No. | 2855300000 |
| GTIN (EAN) | 4064675533283 |
| Qty. | 10 pc(s). |

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www.weidmueller.com**Accessories****Blank**

ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | ESG 6/15 K MC NE WS | Version |
| Order No. | 1880100000 | ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478781 | |
| Qty. | 200 pc(s). | |

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Accessories

BCZ 3.81/180



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of customary connectors and offer space for labelling and coding.

General ordering data

| Type | BCZ 3.81/03/180 SN BK BX | Version | Product data | Packaging |
|------------|----------------------------|--|---|-----------|
| Order No. | 1792780000 | PCB plug-in connector, female plug, 3.81 mm, Number of poles: 3, | IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² | Box |
| GTIN (EAN) | 4032248226764 | 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² , | UL: 300 V / 10 A / AWG 28 - AWG 16 | |
| Qty. | 50 pc(s). | Box | | |

Crosshead screwdriver Phillips



VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

General ordering data

| Type | SDIK PH1 X 80 | Version |
|------------|----------------------------|---|
| Order No. | 2749890000 | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 |
| GTIN (EAN) | 4050118897098 | |
| Qty. | 1 pc(s). | |