

VPU I 3 280V/25KA**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Similar to illustration

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, without telecomm. contact, TN-C |
| Order No. | 2062940000 |
| Type | VPU I 3 280V/25KA |
| GTIN (EAN) | 4050118414509 |
| Qty. | 1 pc(s). |
| Delivery status | This article will no longer be available in the future. |
| Available until | 2024-03-31 |
| Replacement parts | 2067650000 |
| Alternative product | 2726740000 |

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Technical data

Dimensions and weights

| | | | |
|-----------------------------|----------|-----------------|------------|
| Depth | 69 mm | Depth (inches) | 2.717 inch |
| Height | 94 mm | Height (inches) | 3.701 inch |
| Width | 106.8 mm | Width (inches) | 4.205 inch |
| Mounting dimension - height | 75 mm | Net weight | 980 g |

Temperatures

| | | | |
|---------------------|-----------------------|-----------------------|----------------|
| Storage temperature | -40 °C...80 °C | Operating temperature | -40 °C...70 °C |
| Humidity | 5 - 95% rel. humidity | | |

General data

| | | | |
|--------------------|---------------------------|---------------------------|---|
| Colour | black, orange | Design | Installation housing; 6 TE, Insta IP 20 |
| Operating altitude | ≤ 2000 m | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree | IP20 | Rail | TS 35 |
| Segment | Power distribution | UL 94 flammability rating | V-0 |
| Version | without telecomm. contact | | |

Insulation coordination acc. to EN 50178

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

Rated data IEC / EN

| | | | |
|--|---|---|---|
| Discharge current I_{\max} (8/20μs) wire-PE | 100 kA | Discharge current I_n (8/20μs) 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 |
| Fuse | No Fuse necessary ≤250 A gG, 250 A gL (if back up fuse > 250 A) | Leakage current at U_n | 100 μA |
| Lightning test current I_{imp} (10/350 μs) (L-PE) | 25 kA | Low voltage network | TN-C |
| Mains voltage | 230 V / 400 V | Max. continuous voltage, U_c (AC) | 280 V |
| Number of poles | 3 | Protection level U_p at I_N (L/N-PE) | ≤ 1.4 kV |
| Rated load current I_L | 100 A | Rated voltage (AC) | 230 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 | Short-circuit current rating I_{SCCR} | 25 kA |
| Signalling contact | No | Standards | IEC61643-11, EN61643-11 |
| Temporary surge voltage (over-voltage) - TOV | 438 V | Voltage type | AC |

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Technical data

Connection data

| | | | |
|--|---------------------|--|--------------------|
| Stripping length | 15 mm | Type of connection | Screw connection |
| Stripping length, rated connection | 15 mm | Tightening torque, min. | 2 Nm |
| Tightening torque, max. | 3 Nm | Clamping range, rated connection | 16 mm ² |
| Clamping range, min. | 4 mm ² | Clamping range, max. | 35 mm ² |
| Wire cross-section, solid, min. | 2.5 mm ² | Wire cross-section, solid, max. | 16 mm ² |
| Wire connection cross section, finely stranded, min. | 2.5 mm ² | Wire connection cross section, finely stranded, max. | 25 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 2.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 50 mm ² |
| Connection cross-section, stranded, min. | 2.5 mm ² | Connection cross-section, stranded, max. | 50 mm ² |

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 /

Approvals

Approvals



ROHS Conform

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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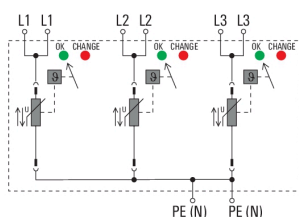
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Drawings

Electric symbol



Schematic circuit diagram

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www.weidmueller.com**Accessories****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). | |

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www.weidmueller.com**Replacement parts****L-PEN 280 V****Spare arrester Type I**

Weidmüller VPU I surge protection products protect low-voltage consumer installations and electronic devices against overvoltages that can occur as a result of atmospheric discharges (thunderstorms) or switching operations (transients). The VPU I series meets the Type I and Type II requirements acc. to IEC 61643-11 and the Type 1 and Type 2 requirements acc. to EN 61643-11. The spare arresters are coded and can only be inserted into suitable bases.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | VPU I 0 280V/25KA | Version |
| Order No. | 2067650000 | Surge voltage arrester, Low voltage, Accessories, Spare arrester |
| GTIN (EAN) | 4050118416220 | |
| Qty. | 1 pc(s). | |