

VPU AC II 3 300/50**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, TN-C |
| Order No. | 2591160000 |
| Type | VPU AC II 3 300/50 |
| GTIN (EAN) | 4050118599770 |
| Qty. | 1 pc(s). |
| Replacement parts | 2591010000 |

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Technical data

Dimensions and weights

| | | | |
|--------------------------|------------|----------------|------------|
| Depth | 68 mm | Depth (inches) | 2.677 inch |
| Depth including DIN rail | 76 mm | Height | 96.3 mm |
| Height (inches) | 3.791 inch | Width | 54 mm |
| Width (inches) | 2.126 inch | Net weight | 379 g |

Temperatures

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

Rated data UL

| | | | |
|--|--------------|------------------------------|--------------|
| Ambient temperature (operational), max. 85 °C | | Rated Voltage U _N | 240 V |
| MCOV (L-PE) | 300 V | SCCR | 150 kA |
| I _n | 20 kA | Category | SPD TYPE 1CA |
| Ambient temperature (operational), min. -40 °C | | Certificate No. (cURus) | E354261 |
| MODE | all modes | VPR (L-L) | 1,800 V |
| VPR (L-PE) | 900 V | Voltage type | AC |
| UL Energy Networks | Delta System | | |

General data

| | | | |
|--------------------|-------------------------|---------------------------|---|
| Colour | orange, black | Design | Installation housing; 3TE, Insta IP 20 |
| Operating altitude | ≤ 4000 m | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree | IP20 in installed state | Rail | TS 35 |
| Segment | Power distribution | UL 94 flammability rating | V-0 |
| Version | Surge protection | | |

Insulation coordination acc. to EN 50178

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

Rated data IEC / EN

| | | | |
|--|--|---|---|
| Combined pulse U_{OC} | 6 kV | Discharge current (type III) | 3 kA |
| Discharge current I_{max} (8/20 μ s) wire-PE | 50 kA | Discharge current I_n (8/20 μ s) wire-PE | 20 kA |
| Energy coordination (≤ 10 m) | Type II, Type III | Follow-on current extinguishing capability I_{fi} | Follow current need not be taken into account |
| Frequency range, max. | 60 Hz | Frequency range, min. | 50 Hz |
| Fuse | No Fuse necessary ≤ 315 A gG, 250 A gG @50 kA I_{sc} , 315 A gG @25 kA I_{sc} | Leakage current at U_n | 0.5 mA |
| Low voltage network | TN-C | Mains voltage | 230 V / 400 V |
| Max. continuous voltage, U_c (AC) | 300 V | Number of poles | 3 |
| Protection level U_p at I_N (L/N-PE) | ≤ 1.5 kV | Rated voltage (AC) | 230 V |
| Requirements category acc. to IEC 61643-11 | Type II, Type III | Requirements class, acc. to EN 61643-11 | T2, T3 |
| Response time | ≤ 25 ns | SPD type | T2, T3 |
| Short-circuit current rating I_{SCCR} | 50 kA | Signalling contact | No |
| Standards | IEC61643-11, EN61643-11, UL 1449 | Temporary surge voltage (over-voltage) - TOV | 337 V |
| Voltage type | AC | | |

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Technical data

Connection data

| | | | |
|--|--------------------|--|---------------------|
| Stripping length | 15 mm | Wire connection method | Screw connection |
| Type of connection | Screw connection | Stripping length, rated connection | 15 mm |
| Tightening torque, min. | 2 Nm | Tightening torque, max. | 4.5 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. | 1.5 mm ² |
| Wire cross-section, solid, max. | 16 mm ² | Wire connection cross section, finely stranded, min. | 1.5 mm ² |
| Wire connection cross section, finely stranded, max. | 25 mm ² | Connection cross-section, stranded, min. | 1.5 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 | / |
|------------|---|

Important note

| | |
|---------------------|---|
| Product information | For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V |
|---------------------|---|

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E354261 |

Downloads

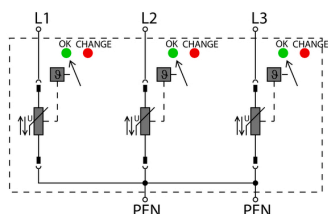
| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Tender specification | Ausschreibungstext DE Tenderspecification EN |
| User Documentation | Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |

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www.weidmueller.com**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). | |

Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SDIS 1.0X5.5X125 | Version |
| Order No. | 2749850000 | Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade |
| GTIN (EAN) | 4050118897050 | thickness (A): 1 mm |
| Qty. | 1 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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www.weidmueller.com**Replacement parts****Spare arrester**

In the event of a defective arrester, you can easily reorder this spare arrester, replace the defective arrester and thus restore protection.

General ordering data

| | | |
|------------|----------------------------|----------------------------------|
| Type | VPU AC II 0 300/50 | Version |
| Order No. | 2591010000 | Spare arrester, Surge protection |
| GTIN (EAN) | 4050118599923 | |
| Qty. | 1 pc(s). | |