

VPU AC I 2 R 300/12.5 LH**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

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 protection, with remote contact, TN-S |
| Order No. | 2983550000 |
| Type | VPU AC I 2 R 300/12.5 LH |
| GTIN (EAN) | 4099986839670 |
| Qty. | 1 pc(s). |

VPU AC I 2 R 300/12.5 LH

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Technical data

Dimensions and weights

| | | | |
|------------|-------|-----------------|------------|
| Depth | 91 mm | Depth (inches) | 3.583 inch |
| Height | 70 mm | Height (inches) | 2.756 inch |
| Width | 36 mm | Width (inches) | 1.417 inch |
| Net weight | 372 g | | |

Temperatures

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

Connection data, remote alert

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

| | | | |
|--------------------------|---|---------------------------|-------------------------|
| Acoustic signal | No | Colour | orange, black |
| Design | Installation housing, 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 | 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 |
|--------------------|---|------------------------|-----|

Rated data IEC / EN

| | | | |
|---|--|---|--|
| Acoustic signal | No | Discharge current I_{\max} (8/20μs) wire-PE | 50 kA |
| Discharge current I_n (8/20μs) wire-PE | 20 kA | Energy coordination (≤10 m) | Type I, Type II, Type III |
| Follow-on current extinguishing capability I_{fi} | Not available due to technical reasons | Frequency range, max. | 60 Hz |
| Frequency range, min. | 50 Hz | Fuse | No Fuse necessary ≤315 A gG, 250 A gG @50 kA I_{sccr} , 315 A gG @25 kA I_{sccr} |
| Leakage current at U_n | 6 μA | Lightning test current I_{imp} (10/350 μs) (L-PE) | 12.5 kA |
| Lightning test current I_{imp} (10/350 μs) | 12.5 kA | Low voltage network | TN-S |
| Mains voltage | 230 V / 400 V | Max. continuous voltage, U_c (AC) | 300 V |
| Number of poles | 2 | Protection level U_p at I_N (L/N-PE) | ≤ 1500 V |
| Protection level, U_p wire - PE | 1,500 V | Protection level, U_p wire - wire | 1,500 V |
| 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 | Short-circuit current rating I_{sccr} | 50 kA |
| Signalling contact | Yes, 250 V 1A 1CO | Standards | IEC61643-11, EN61643-11 |
| Temporary surge voltage (over-voltage) - TOV | 337 V | Voltage type | AC |

Creation date May 4, 2024 9:10:28 PM CEST

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Technical data

Connection data

| | | | |
|--|--------------------|--|---------------------|
| Stripping length | 15 mm | Wire connection method | Screw connection |
| 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. | 35 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 |

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 |
|------|---------|

Downloads

| | |
|--------------------|---|
| Engineering Data | CAD data – STEP |
| User Documentation | Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |

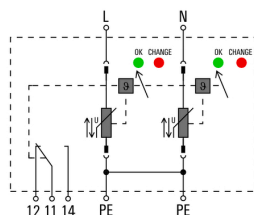
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Drawings

Electric symbol



Schematic circuit diagram

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Accessories**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 I 0 300/12.5 LH | Version |
| Order No. | 2983620000 | Surge protection |
| GTIN (EAN) | 4099986839748 | |
| Qty. | 1 pc(s). | |