

VPU II 2 PV 600V DC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**General ordering data**

| | |
|-------------------|--|
| Version | Surge voltage arrester, Low voltage, without telecomm. contact |
| Order No. | 1351340000 |
| Type | VPU II 2 PV 600V DC |
| GTIN (EAN) | 4050118158731 |
| Qty. | 1 pc(s). |
| Replacement parts | 1351320000 |

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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 | 35.6 mm | Width (inches) | 1.402 inch |
| Mounting dimension - height | 75 mm | Net weight | 290 g |

Temperatures

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

General data

| | | | |
|---------------------------|---------------|--------------------------|---|
| Colour | black, orange | Design | Installation housing; 2TE, Insta IP 20 |
| Operating altitude | ≤ 2000 m | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree | IP20 | Rail | TS 35 |
| UL 94 flammability rating | V-0 | Version | without telecomm. contact |

Insulation coordination acc. to EN 50178

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

Photovoltaic technical data

| | | | |
|--|----------|--|-------------|
| Discharge current I_n (8/20 μ s) | 12.5 kA | Discharge current, max. (8/20 μ s) | 40 kA |
| Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE | 600 V | Operating height in the grounded PV system | ≤ 2000 m |
| Operating height in ungrounded PV system | ≤ 2000 m | PV system voltage, max. U_{cpv} | 600 V |
| Protection level U_p (+/-) | ≤ 4.4 kV | Protection level U_p (+/PE) | ≤ 2.2 kV |
| Protection level U_p (-/PE) | ≤ 2.2 kV | Requirements class | Type II |
| Short-circuit current I_{SCPv} | 200 A | Standards | EN 50539-11 |
| Total discharge current I_{total} (8/20 μ s) | 40 | | |

Rated data IEC / EN

| | | | |
|--|-------------|--|---------|
| Discharge current I_n (8/20 μ s) wire-PE | 20 kA | Discharge current, max. (8/20 μ s) | 40 kA |
| Leakage current at U_n | 30 μ A | Max. continuous voltage, U_c (DC) | 600 V |
| Number of poles | 2 | PV voltage, acc. to IEC 60364-7-712 | < 600 V |
| Rated voltage (DC) | 600 V | Response time | ≤ 25 ns |
| SPD type | T2 | Signalling contact | No |
| Standards | EN 50539-11 | Voltage type | DC |

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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. | 1.5 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 |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 1.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 50 mm ² |
| Connection cross-section, stranded, min. | 1.5 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 |

Tender specification sheets

| | | |
|--------------------|--|---|
| Long specification | <p>Multi-pole surge voltage arrester according to the requirements of Class II acc. to IEC 50539-11. Consisting of V0 material, the arrester serves as overvoltage protection and is used in applications according to IEC 50539-12. The use of a high-performance varistor meets the inspection requirements for Class II surge protection systems on the basis of the standards. The arrester is installed in the vicinity of the equipment that needs protection, in a commercially available installation/electrical distribution enclosure. With thermal separation device on the varistor. If protection is no longer available, the colour in the display window changes from green to red. Rated voltage: 600 VAC In/max (8/20 µs): 20/40 kA, protection level < 2.2 kV I, type: Weidmüller VPU II 2 PV 600 V/40 kA, Order No. 135 13400000 or equivalent</p> | <p>Short specification</p> <p>Class II arrester with In/Imax: 20/40 kA suitable for 600 V PV systems. Protection level < 2.2 kV. Type: Weidmüller VPU II 2 PV 600 V/40 kA Order no. 135 13400000 or equivalent</p> |
|--------------------|--|---|

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www.weidmueller.com**Technical data****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

VPU II 2 PV 600V DC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

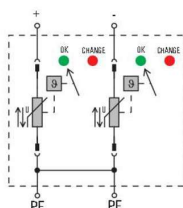
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Drawings

Electric symbol



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****Spare Arrester****General ordering data**

| | | |
|------------|----------------------------|--|
| Type | VPU II 0 PV 600V DC | Version |
| Order No. | 1351320000 | Surge voltage arrester, Low voltage, Accessories |
| GTIN (EAN) | 4050118158755 | |
| Qty. | 1 pc(s). | |