

## VPU III R 12V/4KV AC/DC

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



Similar to illustration



### Type III surge protection

- Compact Type III arrester for AC/DC protection acc. to IEC 61643-11:2012
- Suitable for protecting terminals
- Installed in the vicinity of the equipment to be protected
- Can be used as single-port arrester when nominal current is greater than 16 A

### General ordering data

Version	Surge voltage arrester, Low voltage, with remote contact, Single-phase
Order No.	<a href="#">1351550000</a>
Type	VPU III R 12V/4KV AC/DC
GTIN (EAN)	4050118158571
Qty.	1 pc(s).

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Catalogue status 07.06.2025 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

Depth	71.5 mm	Depth (inches)	2.815 inch
Height	102 mm	Height (inches)	4.016 inch
Width	18 mm	Width (inches)	0.709 inch
Net weight	84 g		

### Temperatures

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

### Connection data, remote alert

Connection type	Screw connection	Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>
Cross-section for connected wire, solid core, min.	0.2 mm <sup>2</sup>	Max. torque	0.5 Nm
Stripping length	5 mm		

### General data

Number of poles	1	Protection degree	IP20
Colour	orange		

### Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	II
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### Rated data IEC / EN

Combined pulse $U_{OC}$	4 kV	Discharge current (type III)	2 kA
Energy coordination ( $\leq 10$ m)	Type II, Type III	Fuse	16 A
Integrated back-up fuse	No	Leakage current at $U_n$	30 $\mu$ A
Low voltage network	Single-phase	Mains frequency at 250 V <sub>max</sub>	50...60Hz
Max. continuous voltage, $U_c$ (AC)	20 V	Max. continuous voltage, $U_c$ (DC)	28 V
Number of poles	1	PE conductor current $I_{PE}$	30 $\mu$ A
Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 0.98$ kV	Rated current $I_N$	16 A
Rated voltage (AC)	12 V	Rated voltage (DC)	16 V
Requirements category acc. to IEC 61643-11	Type III	Requirements class, acc. to EN 61643-11	T3
Response time	$\leq 100$ ns	Short-circuit current rating $I_{SCCR}$	1.5 kA
Signalling contact	250 V 10 A 1 NC	Standards	IEC 61643-11, EN 61643-11
Temporary surge voltage (over-voltage) - TOV	23 V	Voltage type	AC/DC

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**Technical data**

**Connection data**

Stripping length	7 mm	Type of connection	Screw connection
Stripping length, rated connection	7 mm	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Clamping range, rated connection	2.5 mm <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
Wire cross-section, solid, min.	0.13 mm <sup>2</sup>	Wire cross-section, solid, max.	2.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm <sup>2</sup>
Connection cross-section, stranded, min.	0.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	2.5 mm <sup>2</sup>

**Electrical data**

Voltage type	AC/DC
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**Guarantee**

Time interval	5 years
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**Classifications**

ETIM 7.0	EC000942	ETIM 8.0	EC000942
ETIM 9.0	EC000942	ETIM 10.0	EC000942
ECLASS 12.0	27-17-12-03	ECLASS 13.0	27-17-12-03
ECLASS 14.0	27-17-12-03	ECLASS 15.0	27-17-12-03

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Technical data

Tender specification sheets

Long specification		Short specification
	<p>Surge protection according to the requirements of Class III in accordance with IEC 61643-11, EN61643-11:2013. The arrester serves as surge protection and is used in applications in accordance with IEC 61643-12. The arrester is installed in the vicinity of the equipment that needs protection in a standard installation/distributor housing. The VPU III R 12 V AC/DC is earthed between the phase and the neutral conductor. With thermal separation device on the varistor. If there is no longer any protection, the colour of the LEDs changes from green to red. The functional state is also displayed by a voltage-free signalling contact (NC contact). Rated voltage: 12 VAC/DC In/max (8/20 µs): 2 kA protection level &lt; 0.98 kV load current II: 16 A telecommunication output: contact NC: 250 V/0.5 A 48 VDC/0.1 A Type: Weidmüller VPU III R 12V Order No. 1351550000 or equivalent</p>	<p>Class III arrester with Uoc: 4 kV suitable for 12 V AC/DC mains systems. Protection level &lt; 0.98 kV. With remote alert Type: Weidmüller VPU III R 12 V/4 kV Order no. 1351550000 or equivalent</p>

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Approvals

Approvals	
Approvals MAMID	<a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319252/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319252/-T1z1mm-S800/</a>
ROHS	Conform

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**Approval/Certificate/Document of Con-  
formity[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](#)

Brochures

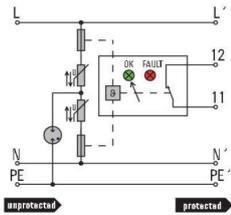
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**Drawings**

**Electric symbol**



Schematic circuit diagram