

VPU II 1 R 1000V/40KA AC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

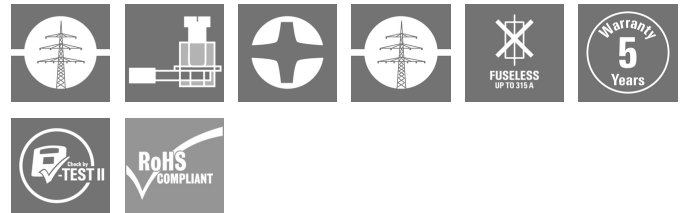
D-32758 Detmold

Germany

www.weidmueller.com**Product image**

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, with remote contact, Single-phase, TN
Order No.	2811930000
Type	VPU II 1 R 1000V/40KA AC
GTIN (EAN)	4064675293378
Qty.	1 pc(s).
Replacement parts	1549700000 1402570000

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Technical data

Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	106 mm	Height (inches)	4.173 inch
Width	17.8 mm	Width (inches)	0.701 inch
Mounting dimension - height	75 mm	Net weight	64 g

Temperatures

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

Colour	black, orange	Design	Installation housing; 1TE, Insta IP 20
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
Rail	TS 35	UL 94 flammability rating	V-0
Version	with remote contact		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Rated data IEC / EN

Discharge current I_{\max} (8/20μs) wire-PE	40 kA	Discharge current I_n (8/20μs) wire-PE	20 kA
Energy coordination (≤10 m)	Type II, Type III	Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	125 A gL > (if back up fuse > 125 A), No Fuse necessary ≤125 A gG	Leakage current at U_n	0.7 mA
Low voltage network	Single-phase, TN	Max. continuous voltage, U_c (AC)	1000 V
Number of poles	1	Protection level U_p at I_N (L/N-PE)	≤ 3.7 kV
Rated voltage (AC)	830 V	Requirements category acc. to IEC 61643-11	Type II
Requirements class, acc. to EN 61643-11	T2	Response time	≤ 25 ns
Short-circuit current rating I_{SCCR}	25 kA	Signalling contact	250 V 1A 1CO
Standards	IEC 61643-11, EN 61643-11	Temporary surge voltage (over-voltage) - TOV	1,205 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.	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
ECLASS 14.0	27-17-90-90		

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Technical data

Tender specification sheets

Long specification

Multi-pole lightning arrester in accordance with level II requirements (IEC 61643-11, EN61643-11:2013). The arrester provides overvoltage protection in applications in acc. with IEC 61643-12. The use of a high-performance varistor meets the inspection requirements for level II surge protection devices (SPD) on the basis of the standards. The arrester is installed in the vicinity of the power supply for the equipment requiring protection, in a commercially available installation/electrical distribution housing. The VPU II 1 1000 V/40 kA AC is used in the single-phase mains network. With thermal cut-off mechanism on the varistor. In case of insufficient protection, the colour in the display window changes from green to red. Rated voltage: 1000V AC
In/max (8/20µs): 20/40 kA protection level < 3.8 kV 25 kA short-circuit strength with max. backup fuse of 250A of the same type: Weidmüller VPU II 1 1000V/40KA AC Order no. 1473440000 or equivalent.

Short specification

Class II arrester with In/Imax: 20/40 kA, suitable for single-phase 1000 V mains systems. Protection level < 3.8 kV. Type: Weidmüller VPU II 1 1000V/40KA AC. Order no. 1473440000 or equivalent

Environmental Product Compliance

REACH SVHC

/

RoHS Compliance Status

Compliant without exemption

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[EU Konformitätserklärung / EU Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)

Catalogues

[Catalogues in PDF-format](#)

Creation date August 28, 2024 11:36:10 PM CEST

Catalogue status 17.08.2024 / We reserve the right to make technical changes.

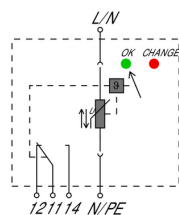
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Drawings

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****Spare arrester VPU II****Spare arrester Type II**

Weidmüller VPU II 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 II series meets the Type II and Type III requirements acc. to IEC 61643-11:2012 and Type 2 and Type 3 requirements acc. to EN 61643-11:2012. The spare arresters are coded and can only be inserted into suitable bases.

General ordering data

Type	VPU II O 1000V/40KA AC	Version
Order No.	1549700000	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118356182	
Qty.	1 pc(s).	

VPU Series

Extensive accessories round off the product range

General ordering data

Type	PLUG VPU	Version
Order No.	1402570000	VPU series, Accessories
GTIN (EAN)	4050118204360	
Qty.	10 pc(s).	