

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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, without telecomm. contact, Single-phase
Order No.	1473440000
Type	VPU II 1 1000V/40KA AC
GTIN (EAN)	4050118279689
Qty.	1 pc(s).

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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
Mounting dimension - height	75 mm	Net weight	194.22 g
Width	17.8 mm	Width (inches)	0.701 inch

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
Humidity	5 - 95% rel. humidity		

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	without telecomm. contact		

Insulation coordination acc. to EN 50178

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

Discharge current $I_{\max}$ (8/20 μ s) wire-PE	40 kA	Discharge current I_n (8/20 μ s) wire-PE	20 kA
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
Max. continuous voltage, U_c (AC)	1000 V	Number of poles	1
Protection level U_p at I_N (L/N-PE)	≤ 3.8 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	No	Standards	IEC61643-11, EN61643-11
Temporary surge voltage (over-voltage) - TOV	1,205 V	Voltage type	AC

Connection data

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

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Classifications

ETIM 6.0	EC000941	ETIM 7.0	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

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
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Approvals

Approvals



ROHS

Conform

VPU II 1 1000V/40KA AC

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Technical data

Downloads

Approval/Certificate/Document of Conformity	EAC VPU SERIES CE PAPER Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

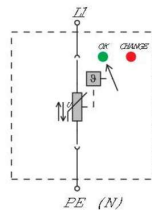
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Drawings

Electric symbol



Schematic circuit diagram