

VPU I 1+1 280V/12,5KA**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Type I/II lightning arrester for use downstream/upstream of the electrical meter**

- No-leakage-current version suitable for use upstream of the electrical meter
- Suitable for protection classes III and IV (LPLIII/IV)
- Can also be used as Type II surge protection
- Tested according to IEC 61643-11 for Type I and II surge protection
- Pluggable arrester

General ordering data

Version	Surge voltage arrester, Low voltage, without telecomm. contact, TN, IT with N, IT without N, Single-phase, TT
Order No.	1352250000
Type	VPU I 1+1 280V/12,5KA
GTIN (EAN)	4050118158014
Qty.	1 pc(s).
Replacement parts	1352120000 1351930000

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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	293 g

Temperatures

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

General data

Number of poles	2	Protection degree	IP20
Colour	black, orange, blue		

Insulation coordination acc. to EN 50178

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

Discharge current I_{\max} (8/20 μ s) N-PE	100 kA	Discharge current I_{\max} (8/20 μ s) wire-PE	50 kA
Discharge current I_n (8/20 μ s) N-PE	50 kA	Discharge current I_n (8/20 μ s) wire-PE	25 kA
Energy coordination (≤ 10 m)	Type I, Type II, Type III	Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Fuse	250 A gL (if back up fuse > 250 A)	Leakage current at U_n	100 μ A
Lightning test current I_{imp} (10/350 μ s) (L-PE)	12.5 kA	Lightning test current, I_{imp} (10/350 μ s) (N-PE)	50 kA
Low voltage network	TN, IT with N, IT without N, Single-phase, TT	Mains voltage	240 V
Max. continuous voltage, U_c (AC)	280 V	Max. continuous voltage, U_c (N-PE)	260 V
Number of poles	2	Protection level U_p at I_N (L/N-PE)	≤ 1.4 kV
Protection level U_p at I_N (N-PE)	≤ 1.5 kV	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
Response time	≤ 25 ns, ≤ 100 ns	Short-circuit current rating I_{SCCR}	25 kA
Signalling contact	No	Standards	IEC61643-11, EN61643-11
Temporary surge voltage (over-voltage) - TOV	438 V	Voltage type	AC

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.	4 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	2.5 mm ²	Wire cross-section, solid, max.	16 mm ²
Wire connection cross section, finely stranded, min.	2.5 mm ²	Wire connection cross section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm ²
Connection cross-section, stranded, min.	2.5 mm ²	Connection cross-section, stranded, max.	50 mm ²

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Technical data

Electrical data

Voltage type AC

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		

Tender specification sheets

Long specification	<p>Multi-pin lightning arrester according to the requirements of Class I in accordance with IEC 61643-11, EN61643-11:2013. On interface transition from 0 to 1 (in accordance with 1312-1), the arrester, consisting of V0 material, serves as lightning protection providing equipotential bonding and is used in applications in accordance with IEC 61643-12. The use of a high-performance varistor meets the inspection requirements for Class I surge protection systems according to the VDEW (Association of German Power Stations) directive. The arrester is installed in the vicinity of the power supply for the equipment that needs protection, in a standard installation/electrical distribution enclosure. The VPU I 1+1 280 V/12.5 kA is used in the single-phase mains network. 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: 230 VAC lightning test current (10/350 µs): 12.5 kA protection level with lightning test current < 1.4 kV 25 kA short-circuit withstand rating with max. back-up fuse of 250 A gl Type: Weidmüller VPU I 1+1 280 V/12.5 kA Order No. 1352250000 or equivalent</p>	<p>Short specification</p> <p>Class I arrester for LPL III/IV with 12.5 kA suitable for 230/400 V single-phase mains systems. Protection level < 1.45 kV. Type: Weidmüller VPU I 1+1 280 V/12.5 kA Order no. 1352250000 or equivalent</p>
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www.weidmueller.com**Technical data****Environmental Product Compliance**

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

Important note

Product information	Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018).
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Approvals

Approvals



ROHS	Conform
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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	

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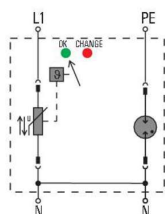
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Drawings

Electric symbol



Schematic circuit diagram

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Replacement parts

N-PE 260 V



Spare arrester Type I

Weidmüller VPU I 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 I series meets the Type I and Type II requirements acc. to IEC 61643-11 and the Type 1 and Type 2 requirements acc. to EN 61643-11. The spare arresters are coded and can only be inserted into suitable bases.

General ordering data

Type	VPU I 0 N-PE 260V/50KA	Version
Order No.	1351930000	Surge voltage arrester, Low voltage, Accessories, Spare arrester, TT
GTIN (EAN)	4050118158274	nur für N-PE
Qty.	1 pc(s).	

L-PEN 280 V



Spare arrester Type I

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General ordering data

Type	VPU I 0 280V/12,5KA	Version
Order No.	1352120000	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118158120	
Qty.	1 pc(s).	

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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).	