

VPU series
VPU II 1 LCF 280V/40KA

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



Similar to illustration



Type II/III surge protection U_c : 280 V
Suitable for 230/400 V mains systems

- Pluggable arrester
- Coded voltage level
- High energy absorption with short time to sparkover
- No follow current
- Installation in distribution board
- Thermal protection function
- Co-ordination with VPU Type I

General ordering data

Type	VPU II 1 LCF 280V/40KA
Order No.	1352740000
Version	Surge voltage arrester, Low voltage, without telecomm. contact, Single-phase
GTIN (EAN)	4050118157635
Qty.	1 pc(s).

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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Technical data
Dimensions and weights

Width	17.8 mm	Width (inches)	0.701 inch
Height	94 mm	Height (inches)	3.701 inch
Depth	69 mm	Depth (inches)	2.717 inch
Mounting dimension - height	75 mm	Net weight	163 g

Temperatures

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

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

Rated voltage (AC)	230 V	Voltage type	AC
Max. continuous voltage, U _c (AC)	280 V	Low voltage network	Single-phase
Discharge current I _n (8/20µs) wire-PE	20 kA	Discharge current I _{max} (8/20µs) wire-PE	40 kA
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	Short-circuit current rating I _{SCCR}	25 kA
Follow-on current extinguishing capability I _{fi}	Not available due for technical reasons	Standards	IEC61643-11, EN61643-11
Energy coordination (≤10 m)	Type II, Type III	Protection level U _p at I _N (L/N-PE)	≤ 1.8 kV
Leakage current at U _n	1 µA	Temporary surge voltage (over-voltage) - TOV	438 V
Combined pulse U _{OC}	10 kV	Number of poles	1
Requirements category acc. to IEC 61643-11	Type II, Type III	Requirements class, acc. to EN 61643-11	T2, T3
Response time	≤ 100 ns	Signalling contact	No

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Technical data
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

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	UNSPSC	30-21-19-21

Approvals

Approvals



ROHS

Conform

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Approval/Certificate/Document of Conformity	EAC VPU SERIES CE PAPER Declaration of Conformity
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN.WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet

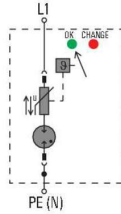
Data sheet

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Drawings

Electric symbol



Schematic circuit diagram

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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	Version
Order No.	9008570000	Screwdriver, Blade length: 80 mm
GTIN (EAN)	4032248056569	
Qty.	1 pc(s).	

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 0 LCF 280V/40KA	Version
Order No.	1352730000	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118157642	
Qty.	1 pc(s).	