

## VPU II 1 LCF 280V/40KA

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

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

Creation date May 19, 2022 11:56:32 AM CEST

Catalogue status 06.05.2022 / We reserve the right to make technical changes.

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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	17.8 mm	Width (inches)	0.701 inch
Mounting dimension - height	75 mm	Net weight	155 g

### 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

Combined pulse $U_{OC}$	10 kV	Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	40 kA
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	20 kA	Energy coordination ( $\leq 10$ 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 $\leq 125$ A gG
Leakage current at $U_n$	1 $\mu$ A	Low voltage network	Single-phase
Mains voltage	230 V / 400 V	Max. continuous voltage, $U_c$ (AC)	280 V
Number of poles	1	Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 1.8$ kV
Rated voltage (AC)	230 V	Requirements category acc. to IEC 61643-11	Type II, Type III
Requirements class, acc. to EN 61643-11	T2, T3	Response time	$\leq 100$ 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		

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### 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 <sup>2</sup>	Clamping range, min.	1.5 mm <sup>2</sup>
Clamping range, max.	35 mm <sup>2</sup>	Wire cross-section, solid, min.	1.5 mm <sup>2</sup>
Wire cross-section, solid, max.	16 mm <sup>2</sup>	Wire connection cross section, finely stranded, min.	1.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	25 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm <sup>2</sup>	Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>
Connection cross-section, stranded, max.	50 mm <sup>2</sup>		

### Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	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

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### Tender specification sheets

Long specification	Single-pole surge voltage arrester according to the requirements of Class II/ III acc. to IEC 61643-11, EN61643-11:2013. Consisting of V0 material, the arrester serves as surge protection in applications acc. to IEC 61643-12. Surge protection is used in the TN, TT and IT mains system types in combination with several lightning protectors. The use of a high-performance varistor in combination with sparkover gaps satisfies the inspection requirements for Class II surge protection systems on the basis of the standards. The leakage current-free arrester is installed in the vicinity of the power supply for the equipment that needs protection, in a commercially available installation/electrical distribution enclosure. The VPU II 1 LCF 280 V/40 kA is earthed, in combination with three or four identical arrestors, between the outer conductors (L1, L2, L3 and / or the neutral conductor). Reference is also made here to the 3+1 circuit and the 3+0 / 4+0 circuits. 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 maximum discharge current (8/20 µs): 40 kA protection level < 1.8 kV combined pulse Uoc: 10 kV; 25 kA short-circuit strength with max. back-up fuse of 125 A gl Type: Weidmüller VPU II 1 LCF 280 V/40 kA Order No. 1352740000 or equivalent	Short specification
		Class II arrester with In/ I <sub>max</sub> : 20/40 kA suitable for 230/400 V mains systems. Protection level < 1.8 kV. Type: Weidmüller VPU II 1 LCF 280 V/12.5 kA Order no. 1352740000 or equivalent

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# Technical data

## Approvals

Approvals



ROHS

Conform

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

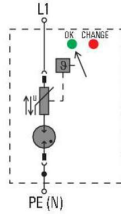
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**Drawings**

**Electric symbol**



Schematic circuit diagram