

**VPU II 1 R LCF 280V/40KA****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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

- Leakage current free, 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, with remote contact, Single-phase
Order No.	<a href="#">1352750000</a>
Type	VPU II 1 R LCF 280V/40KA
GTIN (EAN)	4050118157628
Qty.	1 pc(s).
Replacement parts	<a href="#">1402570000</a>

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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	105 mm	Height (inches)	4.134 inch
Width	17.8 mm	Width (inches)	0.701 inch
Mounting dimension - height	75 mm	Net weight	148 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 <sup>2</sup>
Cross-section for connected wire, solid core, min.	0.14 mm <sup>2</sup>	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

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
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	250 V 1A 1CO	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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# Technical data

### Tender specification sheets

Long specification	Short specification
	<p>Single-pole surge voltage arrester according to the requirements of Class II/ III acc. to IEC 61643-11, EN61643-11:2013. Consisting of VO 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 R 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. The functional state is also displayed by a voltage-free signalling contact (changeover).                      Rated voltage: 230 VAC                      maximum discharge current (8/20 µs): 40 kA                      protection level &lt; 1.8 kV combined pulse                      Uoc: 10 kV; 25 kA short-circuit strength with max. back-up fuse of 125 A                      gl telecommunication output: contact: 250 V/0.5 A 48 VDC/0.1 A                      Type: Weidmüller VPU II 1 R LCF 280 V/40 kA                      Order No. 1352750000 or equivalent</p>
	<p>Class II arrester with In/ I<sub>max</sub>: 20/40 kA suitable for 230/400 V mains systems. Protection level &lt; 1.8 kV. With remote alert                      Type: Weidmüller VPU II 1 R LCF 280 V/12.5 kA                      Order no. 1352750000 or equivalent</p>

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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	

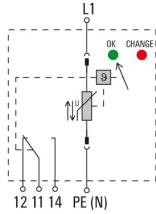
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**Drawings**

**Electric symbol**



Schematic circuit diagram