

**VPU series**  
**VPU II 3 R 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



**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**

Type	VPU II 3 R LCF 280V/40KA
Order No.	<a href="#">1352800000</a>
Version	Surge voltage arrester, Low voltage, with remote contact, TN-C, IT without N
GTIN (EAN)	4050118157581
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	53.4 mm	Width (inches)	2.102 inch
Height	106 mm	Height (inches)	4.173 inch
Depth	69 mm	Depth (inches)	2.717 inch
Mounting dimension - height	75 mm	Net weight	426 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		

**Connection data, remote alert**

Connection type	PUSH IN	Stripping length	8 mm
Cross-section for connected wire, solid core, min.	0.14 mm <sup>2</sup>	Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>

**General data**

Colour	black, orange	Design	Installation housing; 3TE, 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**

Rated voltage (AC)	230 V	Voltage type	AC
Max. continuous voltage, U <sub>c</sub> (AC)	280 V	Low voltage network	TN-C, IT without N
Discharge current I <sub>n</sub> (8/20µs) wire-PE	20 kA	Discharge current I <sub>max</sub> (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 <sub>SCCR</sub>	25 kA
Follow-on current extinguishing capability I <sub>fi</sub>	Not available due for technical reasons	Standards	IEC61643-11, EN61643-11
Energy coordination (≤ 10 m)	Type II, Type III	Protection level U <sub>p</sub> at I <sub>N</sub> (L/N-PE)	≤ 1.8 kV
Leakage current at U <sub>n</sub>	1 µA	Temporary surge voltage (over-voltage) - TOV	438 V
Combined pulse U <sub>OC</sub>	10 kV	Number of poles	3
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	250 V 1A 1CO

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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 <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
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

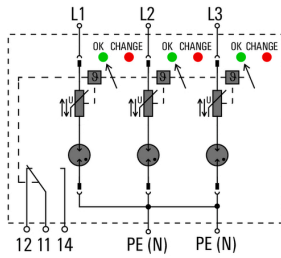
Conform

**Downloads**

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

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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.	<a href="#">9008570000</a>	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 O LCF 280V/40KA	Version
Order No.	<a href="#">1352730000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118157642	
Qty.	1 pc(s).	

**Data sheet****VPU series  
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**Accessories****VPU series accessories**

Versatile accessories round off the surge protection range. E.g. the all-purpose measuring device V-TEST, which is used to check the function of pluggable arresters such as VSPC.

**General ordering data**

Type	PLUG VPU	Version
Order No.	<a href="#">1402570000</a>	VPU series, Accessories
GTIN (EAN)	4050118204360	
Qty.	10 pc(s).	