

## VPU series

### VPU II 3+1 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

- 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

Delivery status	<b>This article will no longer be available in the future.</b>
Available until	2020-05-01
Type	VPU II 3+1 280V/40KA
Order No.	<a href="#">1352650000</a>
Version	Surge voltage arrester, Low voltage, without telecomm. contact, TN-C-S, TN-S, TT, IT with N, IT without N
GTIN (EAN)	4050118157703
Qty.	1 pc(s).
Alternative product	<a href="#">2591080000</a>

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**Technical data**
**Dimensions and weights**

Width	71.2 mm	Width (inches)	2.803 inch
Height	94 mm	Height (inches)	3.701 inch
Depth	69 mm	Depth (inches)	2.717 inch
Mounting dimension - height	75 mm	Net weight	498 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, blue	Design	Installation housing; 4TE, 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	Max. continuous voltage, $U_c$ (N-PE)	260 V
Low voltage network	TN-C-S, TN-S, TT, IT with N, IT without N	Discharge current $I_n$ (8/20 $\mu$ s) N-PE	20 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) N-PE	40 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	20 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	40 kA	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	125 A gL > (if back up fuse > 125 A)
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 ( $\leq 10$ m)	Type II, Type III
Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 1.55$ kV	Protection level $U_p$ at $I_N$ (N-PE)	$\leq 1.5$ kV
Leakage current at $U_n$	100 $\mu$ A	Temporary surge voltage (over-voltage) - TOV	438 V
Combined pulse $U_{OC}$	10 kV	Number of poles	4
Requirements category acc. to IEC 61643-11	Type II, Type III	Requirements class, acc. to EN 61643-11	T2, T3
Response time	$\leq 25$ ns, $\leq 100$ ns	Signalling contact	No

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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

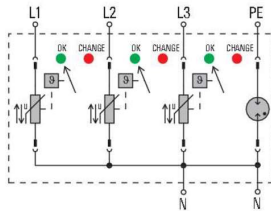


ROHS

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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Schematic circuit diagram