

## VPU series

### VPU II 3W WYE 277V

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



Weidmüller VPU I (Type I), VPU II (Type II) and VPU III (Type III) surge protection products effectively reduce the interference coupling that can occur from transient surge voltages, even significantly below the limits prescribed by insulation co-ordination according to EN 60664-3 / DIN VDE 0110. This means that the whole installation is exposed to fewer malfunctions. The arrestors are co-ordinated using technical means. This means that decoupling between types I, II and III is not necessary. The arrestors are tested according to product standard IEC 61643-11 / DIN EN 61643-11 and can be installed in systems according to IEC 61643-12 / VDE V0675-6-12 and IEC 62305-4 / VDE 0185-4. This lightning and surge protection device is suited for installation in power supply systems for the US market in accordance with UL 1449 Ed.4. Weidmüller offers different products depending on the particular mains network type and voltage level.

#### General ordering data

Type	VPU II 3W WYE 277V
Order No.	<a href="#">2025530000</a>
Version	Surge voltage arrester, Low voltage, without telecomm. contact, TN-C ( $U_0 \leq 230/400$ V)
GTIN (EAN)	4050118405224
Qty.	1 pc(s).

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

Width	54 mm	Width (inches)	2.126 inch
Height	94 mm	Height (inches)	3.701 inch
Depth	69 mm	Depth (inches)	2.717 inch
Mounting dimension - height	75 mm	Net weight	412 g

**Temperatures**

Humidity	5 - 95% rel. humidity	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...85 °C		

**General data**

Colour	Black, Orange	Design	Installation housing; 3TE, Insta IP 20
Mounting rail	TS 35	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	Segment	Power distribution
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**

Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	40 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	20 kA
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)
Max. continuous voltage, $U_c$ (AC)	385 V	No. of poles	3
Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 1,85$ kV	Rated voltage (AC)	230 V
Requirements category acc. to IEC 61643-11	Type II	Requirements class, acc. to EN 61643-11	T2
Response time	$\leq 25$ ns	Short-circuit current rating $I_{SCCR}$	25 kA
Voltage type	AC	low voltage network	TN-C ( $U_0 \leq 230/400$ V)

**Connection data**

Type of connection	Screw connection	Stripping length, rated connection	15 mm
Tightening torque, min.	2 Nm	Tightening torque, max.	3 Nm
Wire connection cross section AWG, min.	AWG 14	Wire connection cross section AWG, max.	AWG 0
Wire cross-section, solid, min.	4 mm <sup>2</sup>	Wire cross-section, solid, max.	16 mm <sup>2</sup>
Wire connection cross-section, finely stranded, min.	2.5 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.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm <sup>2</sup>
Connection cross-section, stranded, min.	4 mm <sup>2</sup>	Connection cross-section, stranded, max.	50 mm <sup>2</sup>

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**Technical data****Rated data UL**

Continuous voltage $U_C$ , max.	385 V	Rated Voltage $U_N$	277 V
Test Voltage 39.1 (UL 1449)	480 V	VPR (L/N-PE)	1,500 V
MCOV (L/N-PE)	385 Vac	SCCR	200 kA
$I_n$	20 kA	Category	SPD TYPE 1CA/2CA

**Ratings IECEx/ATEX/cUL**

cUL certificate	UL 1449 ED.4 Certificate
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**Classifications**

ETIM 3.0	EC000941	ETIM 5.0	EC000510
ETIM 6.0	EC000941	UNSPSC	30-21-19-21
eClass 5.1	27-13-08-01	eClass 6.2	27-13-08-02
eClass 7.1	27-14-02-01	eClass 8.1	27-14-02-01
eClass 9.0	27-14-02-01	eClass 9.1	27-13-08-05

**Product information**

Descriptive text accessories	Pluggable spare arrester VPU II 0 385V - 2025100000
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**Approvals**

Approvals



ROHS	Conform
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**Downloads**

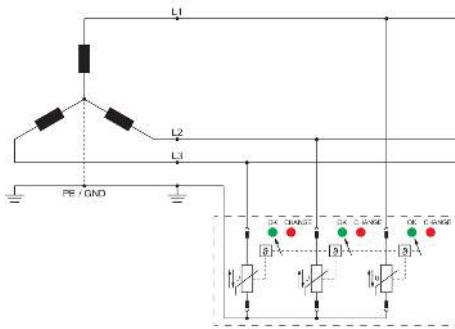
Approval/Certificate/Document of Conformity	<a href="#">CE PAPER</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Instruction sheet</a>

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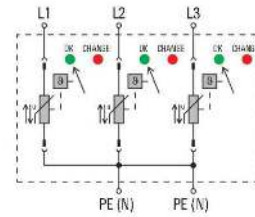
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**Drawings**

**Electric symbol**



Schematic circuit diagram UL



Schematic circuit diagram IEC / EN