

**VPU AC II US 1 277/50**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com



Abb.ähnlich

- compact SPD to install in application by NFPA 79
- no additional overcurrent protection devices needed
- short circuit current rating (SCCR) up to 200 kA
- tested according to IEC/EN 61643-11 and UL 1449 4.Ed

**General ordering data**

Version	Surge voltage arrester, Low voltage, Surge protection, Single-phase
Order No.	<a href="#">2730570000</a>
Type	VPU AC II US 1 277/50
GTIN (EAN)	4050118807530
Qty.	1 pc(s).
Replacement parts	<a href="#">2730560000</a>

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## Technical data

### Dimensions and weights

Depth	68 mm	Depth (inches)	2.677 inch
Depth including DIN rail	76 mm	Height	96.3 mm
Height (inches)	3.791 inch	Width	18 mm
Width (inches)	0.709 inch	Mounting dimension - height	75 mm
Net weight	133 g		

### Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...85 °C
Humidity	5 - 95% rel. humidity		

### Rated data UL

Ambient temperature (operational), max. 85 °C		Rated Voltage $U_N$	277 V
VPR (N-PE)	1,000 V	SCCR	200 kA
$I_n$	20 kA	Category	SPD TYPE 1
Connection cross-section AWG, min.	AWG 14	Connection cross-section AWG, max.	AWG 6
Ambient temperature (operational), min. -40 °C		MODE	all modes
VPR (L-PE)	1,000 V	Voltage type	AC
UL Energy Networks	Split-Phase		

### General data

Colour	orange, black	Design	Installation housing, Insta IP 20
Operating altitude	≤ 4000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20 in installed state	Rail	TS 35
Segment	Power distribution	UL 94 flammability rating	V-0
Version	Surge protection		

### 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	50 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 $I_{fi}$	Follow current need not be taken into account
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	No Fuse necessary $\leq 315$ A gG, 250 A gG @50 kA I <sub>sc</sub> , 315 A gG @25 kA I <sub>sc</sub>	Leakage current at $U_n$	0.3 mA
Low voltage network	Single-phase	Max. continuous voltage, $U_c$ (AC)	350 V
Number of poles	1	Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 1.75$ kV
Rated voltage (AC)	277 V	Requirements category acc. to IEC 61643-11	Type II
Requirements class, acc. to EN 61643-11	T2	Response time	$\leq 25$ ns
SPD type	T2	Short-circuit current rating $I_{SCCR}$	50 kA
Signalling contact	No	Standards	IEC 61643-11, EN 61643-11, UL 1449, NFPA 79
Temporary surge voltage (over-voltage) - TOV	403 V	Voltage type	AC

### Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Type of connection	Screw connection	Stripping length, rated connection	18 mm
Tightening torque, min.	2 Nm	Tightening torque, max.	4.5 Nm
Clamping range, rated connection	16 mm <sup>2</sup>	Clamping range, min.	4 mm <sup>2</sup>
Clamping range, max.	35 mm <sup>2</sup>	Wire connection cross section AWG, min.	AWG 14
Wire connection cross section AWG, max.	AWG 6	Wire cross-section, solid, min.	2.5 mm <sup>2</sup>
Wire cross-section, solid, max.	35 mm <sup>2</sup>	Wire connection cross section, finely stranded, min.	4 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	35 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.	35 mm <sup>2</sup>	Connection cross-section, stranded, min.	2.5 mm <sup>2</sup>
Connection cross-section, stranded, max.	35 mm <sup>2</sup>		

### Ratings IECEx/ATEX/cUL

Certificate no. (cULus) E354261

### Guarantee

Time interval 5 years

### 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

### Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E354261

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">EU_Konformitätserklärung / EU_Declaration_of_Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">EPLAN</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

**Data sheet**

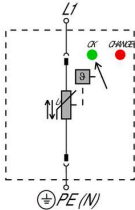
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**Drawings**

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**Electric symbol**



Schematic circuit diagram