

## VPU AC II US 3 120/50

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

www.weidmueller.com



Picture similar

- 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, TN-C
Order No.	<a href="#">2730510000</a>
Type	VPU AC II US 3 120/50
GTIN (EAN)	4050118807592
Qty.	1 items

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E354261

## Dimensions and weights

Depth	68 mm	Depth (inches)	2.6772 inch
Depth including DIN rail	76 mm	Height	90 mm
Height (inches)	3.5433 inch	Width	54 mm
Width (inches)	2.126 inch	Mounting dimension - height	75 mm
Net weight	354 g		

## Temperatures

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

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## Rated data UL

Ambient temperature (operational), max. 85 °C	Rated Voltage UN	120 V
MCOV (L-PE)	SCCR	200 kA
In	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-L)	VPR (L-PE)	600 V
Voltage type AC	UL Energy Networks	3-phase WYE

## Connection data, remote alert

Connection type	PUSH IN
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## General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	Surge protection	Design	Installation housing; 3TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	orange, black
Protection degree	IP20 in installed state	Mounting rail	TS 35
Operating altitude	≤ 4000 m		

## Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2
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## Technical data

### Rated data IEC / EN

Number of poles	3	Leakage current at Un	0.4 mA
Signalling contact	No	Rated voltage (AC)	120 V
Low voltage network	TN-C	Voltage type	AC
Temporary surge voltage (over-voltage) - TOV	229 V	Fuse protection	No Fuse necessary ≤315 A gG, 250 A gG @50 kA Isccr, 315 A gG @25 kA Isccr
Response time / fallback time	≤ 25 ns	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Standards	IEC 61643-11, EN 61643-11, UL 1449, NFPA 79
Requirements class, acc. to EN 61643-11	T2, T3	Requirements category acc. to IEC 61643-11	Type II
Max. continuous voltage, Uc (AC)	150 V	Mains voltage	120 V / 240 V
Energy coordination (≤10 m)	Type II, Type III	Discharge current In (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	50 kA	SPD type	T2
Protection level Up at IN (L/N-PE)	≤ 1.25 kV	Short-circuit current rating ISCCR	50 kA
Follow-on current extinguishing capability I <sub>fi</sub>	Follow current need not be taken into account	Integrated back-up fuse	No

### 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.	3 Nm	Tightening torque, max.	4.5 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 connection cross section AWG, min.	AWG 16
Wire connection cross section AWG, max.	AWG 2	Wire cross-section, solid, min.	1.5 mm <sup>2</sup>
Wire cross-section, solid, max.	35 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.	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.	1.5 mm <sup>2</sup>
Connection cross-section, stranded, max.	35 mm <sup>2</sup>		

### Electrical data

Voltage type	AC
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### General data

Number of poles	3	Protection degree	IP20 in installed state
Colour	orange, black		

### Ratings IECEx/ATEX/cUL

Certificate no. (cULus)	E354261
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### Guarantee

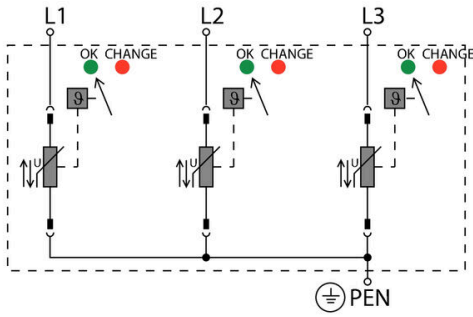
Time interval	5 years
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**Technical data**

**Classifications**

ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	EC000941	ECLASS 14.0	27-17-12-02
ECLASS 15.0	27-17-12-02		

Electric symbol



Schematic circuit diagram