

## VPU AC II 3 150/50

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 due to transient surge voltages, even significantly below the limits prescribed by insulation co-ordination according to EN 60664-3 / DIN VDE 0110-3. This means that the whole installation is exposed to fewer malfunctions. The arresters are co-ordinated using technical means. This means that decoupling between Types I, II and III is unnecessary. The arresters 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 0675-6-12 and IEC 62305-4 / VDE 0185-4. This lightning and surge protection device is suited for installation in power supply systems. Weidmüller offers different products depending on the particular mains network type and voltage level. A special Type I and Type II protective device is even available for photovoltaic applications.

### General ordering data

Version	Surge voltage arrester, Low voltage, Surge protection, TN-C
Order No.	<a href="#">2591690000</a>
Type	VPU AC II 3 150/50
GTIN (EAN)	4050118599251
Qty.	1 pc(s).
Replacement parts	<a href="#">2591640000</a> <a href="#">2735080000</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	90 mm
Height (inches)	3.543 inch	Width	54 mm
Width (inches)	2.126 inch	Net weight	374 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 $U_N$	120 V
MCOV (L-PE)	150 V	SCCR	200 kA
$I_n$	20 kA	Category	SPD TYPE 1CA
Ambient temperature (operational), min. -40 °C		Certificate No. (cURus)	E3542610000
MODE	all modes	VPR (L-L)	1,000 V
VPR (L-PE)	600 V	Voltage type	AC
UL Energy Networks	3-phase WYE		

### General data

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

### Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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### Rated data IEC / EN

Combined pulse $U_{OC}$	6 kV	Discharge current (type III)	3 kA
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 $I_{scCR}$ , 315 A gG @25 kA $I_{scCR}$	Integrated back-up fuse	No
Leakage current at $U_n$	0.5 mA	Low voltage network	TN-C
Mains voltage	120 V / 240 V	Max. continuous voltage, $U_c$ (AC)	150 V
Number of poles	3	Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 1.25$ kV
Rated voltage (AC)	120 V	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
SPD type	T2	Short-circuit current rating $I_{scCR}$	50 kA
Signalling contact	No	Temporary surge voltage (over-voltage) - TOV	229 V
Voltage type	AC		

Creation date July 16, 2025 3:58:34 AM CEST

Catalogue status 04.07.2025 / We reserve the right to make technical changes.

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## Technical data

### 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>	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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### Guarantee

Time interval	5 years
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### Classifications

ETIM 7.0	EC000941	ETIM 8.0	EC000941
ETIM 9.0	EC000941	ETIM 10.0	EC000941
ECLASS 12.0	27-17-12-02	ECLASS 13.0	27-17-12-02
ECLASS 14.0	27-17-12-02	ECLASS 15.0	27-17-12-02

### Approvals

Approvals



Approvals MAMID	<a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/</a>
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ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E3542610000

### Environmental Product Compliance

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

### Important note

Product information	For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V
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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**

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Approval/Certificate/Document of Conformity	<a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> <a href="#">UK Konformitätserklärung / UK Declaration of Conformity</a>
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Engineering Data	<a href="#">CAD data – STEP</a>
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Tender specification	<a href="#">Ausschreibungstext DE</a> <a href="#">Tenderspecification EN</a>
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User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
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Catalogues	<a href="#">Catalogues in PDF-format</a>
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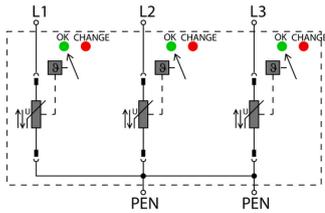
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Drawings

Electric symbol



Schematic circuit diagram

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## Replacement parts

### Spare arrester



In the event of a defective arrester, you can easily reorder this spare arrester, replace the defective arrester and thus restore protection.

### General ordering data

Type	VPU AC II 0 150/50	Version	
Order No.	<a href="#">2591640000</a>	Version	Spare arrester, Surge protection, TN, Single-phase
GTIN (EAN)	4050118599305		
Qty.	1 pc(s).		

### VPU Series



Extensive accessories round off the product range

### General ordering data

Type	VPU LOCKING CLIP S
Order No.	<a href="#">2735080000</a>
GTIN (EAN)	4050118826050
Qty.	10 pc(s).

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## Accessories

## Crosshead screwdriver Phillips

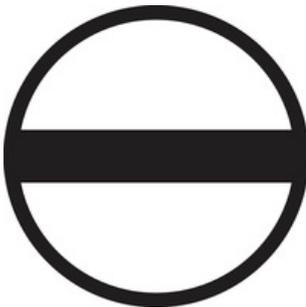


VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

## General ordering data

Type	SDIK PH1 X 80	Version
Order No.	<a href="#">2749890000</a>	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	

## Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

## General ordering data

Type	SDIS 1.0X5.5X125	Version
Order No.	<a href="#">2749850000</a>	Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade thickness (A): 1 mm
GTIN (EAN)	4050118897050	
Qty.	1 pc(s).	

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## Accessories

### Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc. Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

### General ordering data

Type	ESG 6/15 K MC NE WS	Version	
Order No.	<a href="#">1880100000</a>	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive	
GTIN (EAN)	4032248478781		
Qty.	200 pc(s).		

### VPU Series



Extensive accessories round off the product range

### General ordering data

Type	VPU AC EXTENDER
Order No.	<a href="#">3123500000</a>
GTIN (EAN)	4099987270175
Qty.	8 pc(s).