

## VPU III R 120V/6KV AC/DC

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

www.weidmueller.com



### Type III surge protection

- Compact Type III arrester for AC/DC protection acc. to IEC 61643-11:2012
- Suitable for protecting terminals
- Installed in the vicinity of the equipment to be protected
- Can be used as single-port arrester when nominal current is greater than 16 A

### General ordering data

Version	Surge voltage arrester, Low voltage, with remote contact, Single-phase
Order No.	<a href="#">1351630000</a>
Type	VPU III R 120V/6KV AC/DC
GTIN (EAN)	4050118158519
Qty.	1 items

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	71.5 mm	Depth (inches)	2.815 inch
Height	102 mm	Height (inches)	4.0157 inch
Width	18 mm	Width (inches)	0.7087 inch
Net weight	67 g		

Temperatures

Storage temperature	-40 °C...70 °C	Operating temperature	-40 °C...70 °C
Humidity	5 - 95% rel. humidity		

Environmental Product Compliance

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

Connection data, remote alert

Cross-section for connected wire, solid core, min.	0.2 mm <sup>2</sup>	Stripping length	5 mm
Connection type	PUSH IN	Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>
Max. torque	0.5 Nm		

General data

Optical function display	Green LED = OK, Red LED = arrester is defective, replace	Segment	Power distribution
Version	with remote contact	Design	Installation housing; 1TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	orange
Protection degree	IP20	Mounting rail	TS 35
Operating altitude	≤ 4000 m		

Insulation coordination acc. to EN 50178

Surge voltage category	II	Pollution severity	2
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Rated data IEC / EN

Number of poles	2	Combined pulse UOC	6 kV
Leakage current at Un	30 µA	Signalling contact	250 V 10 A 1 NC
Rated voltage (AC)	120 V	Rated voltage (DC)	150 V
Rated current IN	16 A	Low voltage network	Single-phase
Mains frequency at 250 Vmax	50...60Hz	Voltage type	AC/DC
Temporary surge voltage (over-voltage) - TOV	229 V	Fuse protection	16 A

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### Technical data

Response time / fallback time	≤ 100 ns	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Standards	IEC 61643-11, EN 61643-11
Requirements class, acc. to EN 61643-11	T3	Requirements category acc. to IEC 61643-11	Type III
Max. continuous voltage, U <sub>c</sub> (AC)	150 V	Energy coordination (≤10 m)	Type II, Type III
Protection level Up at IN (L/N-PE)	≤ 1.75 kV	Short-circuit current rating ISCCR	1.5 kA
Discharge current (type III)	3 kA	Follow-on current extinguishing capability I <sub>fi</sub>	Follow current need not be taken into account
Integrated back-up fuse	No	PE conductor current IPE	30 µA

### Connection data

Stripping length	7 mm	Type of connection	Screw connection
Stripping length, rated connection	7 mm	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Clamping range, rated connection	2.5 mm <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
Wire cross-section, solid, min.	0.13 mm <sup>2</sup>	Wire cross-section, solid, max.	2.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm <sup>2</sup>
Connection cross-section, stranded, min.	0.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	2.5 mm <sup>2</sup>

### Electrical data

Voltage type	AC/DC
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### General data

Number of poles	2	Protection degree	IP20
Colour	orange		

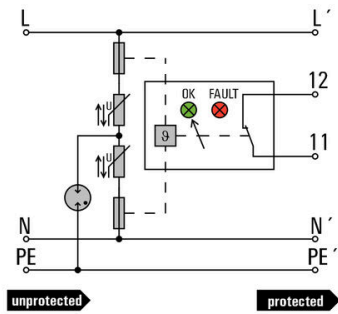
### Guarantee

Time interval	5 years
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### Classifications

ETIM 8.0	EC000942	ETIM 9.0	EC000942
ETIM 10.0	EC000942	ECLASS 14.0	27-17-12-03
ECLASS 15.0	27-17-12-03		

Electric symbol



Schematic circuit diagram

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## Accessories

### Crosshead screwdriver Phillips

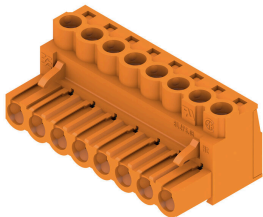


VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

#### General ordering data

Type	SDIK PH0 X 60	Version	
Order No.	<a href="#">2749880000</a>	Screwdriver, Blade width (B): 0 mm, 60 mm, Blade thickness (A): 0	
GTIN (EAN)	4050118897081		
Qty.	1 ST		

### BLZP 5.08HC/180 SN



Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

#### General ordering data

Type	BLZP 5.08HC/03/180 SN B...	Version	
Order No.	<a href="#">1943820000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	
GTIN (EAN)	4032248617845	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	
Qty.	120 ST		