

VPU AC I 3 R 440/25 LCF**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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, with remote contact, TN-C
Order No.	2619170000
Type	VPU AC I 3 R 440/25 LCF
GTIN (EAN)	4050118634617
Qty.	1 pc(s).
Replacement parts	2855300000

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Technical data

Dimensions and weights

Depth	93 mm	Depth (inches)	3.661 inch
Height	104.5 mm	Height (inches)	4.114 inch
Width	108 mm	Width (inches)	4.252 inch
Net weight	25 g		

Temperatures

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

Probability of failure

MTBF	15 a
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Connection data, remote alert

Connection type	Screw connection, plug-gable	Cross-section for connected wire, solid core, max.	1.5 mm ²
Cross-section for connected wire, solid core, min.	0.14 mm ²	Stripping length	8 mm

General data

Colour	black	Design	Installation housing; 6 TE, Insta IP 20
Operating altitude	≤ 2000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20 in installed state	Rail	TS 35
Segment	Power distribution	Suitable for	Count-in installation (leakage current free)
UL 94 flammability rating	V-0	Version	Surge protection, with remote contact

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Technical data

Rated data IEC / EN

Discharge current I_{\max} (8/20 μ s) wire-PE 100 kAEnergy coordination (≤ 10 m)

Type I, Type II, Type III

Frequency range, max.

60 Hz

Fuse 250 A gL (if back up fuse > 250 A)

Lightning test current I_{imp} (10/350 μ s) (L-PE)

25 kA

Mains voltage 400 V / 690 V

Number of poles

4

Rated load current I_L

100 A

Requirements category acc. to IEC 61643-11

Type I, Type II

Response time

 ≤ 25 ns

Signalling contact

250 V 1A 1CO

Suitable for

Count-in installation (leakage current free)

Voltage type

AC

Discharge current I_n (8/20 μ s) wire-PE 25 kAFollow-on current extinguishing capability I_{fi} Not available due for technical reasons

Frequency range, min.

50 Hz

Leakage current at U_n 5 μ A

Low voltage network

TN-C

Max. continuous voltage, U_c (AC)

440 V

Protection level U_p at I_N (L/N-PE) ≤ 2.5 kV

Rated voltage (AC)

400 V

Requirements class, acc. to EN 61643-11

T1, T2

Short-circuit current rating I_{SCCR}

50 kA

Standards

IEC61643-11,
EN61643-11

Temporary surge voltage (over-voltage) - TOV

762 V

Connection data

Stripping length 13 mm

Type of connection Screw connection

Tightening torque, min. 2 Nm

Clamping range, rated connection 16 mm²Clamping range, max. 35 mm²Wire cross-section, solid, max. 35 mm²Wire connection cross section, finely stranded, max. 35 mm²Conductor cross-section, flexible, AEH (DIN 46228-1), max. 35 mm²Connection cross-section, stranded, max. 35 mm²

Wire connection method Screw connection

Stripping length, rated connection 13 mm

Tightening torque, max. 3 Nm

Clamping range, min. 6 mm²Wire cross-section, solid, min. 6 mm²Wire connection cross section, finely stranded, min. 6 mm²Conductor cross-section, flexible, AEH (DIN 46228-1), min. 6 mm²Connection cross-section, stranded, min. 6 mm²

Guarantee

Time interval 5 years

Classifications

ETIM 6.0 EC000941

ETIM 8.0 EC000941

ECLASS 9.0 27-13-08-05

ECLASS 10.0 27-13-08-05

ECLASS 12.0 27-17-90-90

ETIM 7.0 EC000941

ETIM 9.0 EC000941

ECLASS 9.1 27-13-08-05

ECLASS 11.0 27-13-08-05

ECLASS 13.0 27-17-90-90

Environmental Product Compliance

REACH SVHC

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Technical data

Important note

Product information	For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V
Notes	Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018).

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format

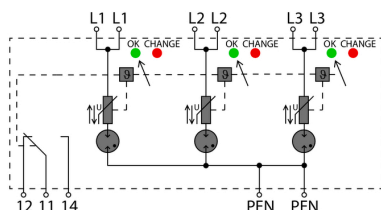
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Drawings

Electric symbol



Schematic circuit diagram

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Accessories

BCZ 3.81/180



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of customary connectors and offer space for labelling and coding.

General ordering data

Type	BCZ 3.81/03/180 SN BK BX	Version	Product data	Packaging
Order No.	1792780000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 3,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248226764	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		

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www.weidmueller.com**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.	1880100000	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive
GTIN (EAN)	4032248478781	
Qty.	200 pc(s).	

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.	2749890000	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	

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Replacement parts

VPU Series



Extensive accessories round off the product range

General ordering data

Type	PLUG VPU AC
Order No.	2855300000
GTIN (EAN)	4064675533283
Qty.	10 pc(s).