

**VPU AC I F 3+1 R 275/25****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. The VPU AC I F series is characterised by a fuse integrated in the arrester. These arresters do not require a fuse.

**General ordering data**

Version	with remote contact, Surge protection, TN-S, TT
Order No.	<a href="#">3022920000</a>
Type	VPU AC I F 3+1 R 275/25
GTIN (EAN)	4099986942202
Qty.	1 pc(s).
Replacement parts	<a href="#">3056190000</a> <a href="#">3022930000</a>

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## Technical data

## Dimensions and weights

Depth	86 mm	Depth (inches)	3.386 inch
Height	105 mm	Height (inches)	4.134 inch
Width	144 mm	Width (inches)	5.669 inch
Net weight	1,074 g		

## Temperatures

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

## Connection data, remote alert

Connection type	PUSH IN	Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>
Cross-section for connected wire, solid core, min.	0.14 mm <sup>2</sup>	Stripping length	8 mm

## General data

Colour	orange, black	Design	Insta IP 20, Installation housing; 8 TE
Operating altitude	≤ 2000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20 in installed state	Rail	TS 35
UL 94 flammability rating	V-0	Version	with remote contact, 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 $I_{\max}$ (8/20μs) wire-PE	65 kA	Discharge current $I_n$ (8/20μs) N-PE	100 kA
Discharge current $I_n$ (8/20μs) wire-PE	25 kA	Discharge current, max. (8/20 μs)	130 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	Follow-on current extinguishing capability $I_{fi}$	Not available due for technical reasons
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	Not required	Lightning test current $I_{imp}$ (10/350 μs)	12.5 kA
Lightning test current, $I_{imp}$ (10/350 μs) (N-PE)	100 kA	Low voltage network	TN-S, TT
Mains voltage	230 V / 400 V	Max. continuous voltage, $U_c$ (AC)	305 V
Max. continuous voltage, $U_c$ (N-PE)	305 V	Number of poles	4
Protection level $U_p$ at $I_N$ (L/N-PE)	≤ 2.1 kV	Protection level $U_p$ at $I_N$ (N-PE)	≤ 1.5 kV
Rated voltage (AC)	230 V	Requirements category acc. to IEC 61643-11	Type I, Type II
Requirements class, acc. to EN 61643-11	T1, T2, T3	Response time	<100 ns
Short-circuit current rating $I_{SCCR}$	100 kA	Signalling contact	250 V 1A 1CO
Standards	IEC61643-11, EN61643-11	Temporary surge voltage (over-voltage) - TOV	442 V
Voltage type	AC		

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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.	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 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>		

## Guarantee

Time interval	5 years
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## Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	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	ECLASS 13.0	27-17-90-90

## Downloads

Catalogues	<a href="#">Catalogues in PDF-format</a>
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[www.weidmueller.com](http://www.weidmueller.com)**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
GTIN (EAN)	4050118897050	thickness (A): 1 mm
Qty.	1 pc(s).	

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[www.weidmueller.com](http://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.	<a href="#">1880100000</a>	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive
GTIN (EAN)	4032248478781	
Qty.	200 pc(s).	

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[www.weidmueller.com](http://www.weidmueller.com)**Replacement parts****Spare arrester**

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**General ordering data**

Type	VPU AC I F 0 275/25 MP	Version
Order No.	<a href="#">3056190000</a>	Surge protection
GTIN (EAN)	4099987030458	
Qty.	1 pc(s).	
Type	VPU AC I F 0 N-PE 275/25	Version
Order No.	<a href="#">3022930000</a>	Surge protection
GTIN (EAN)	4099986942226	
Qty.	1 pc(s).	