Data sheet

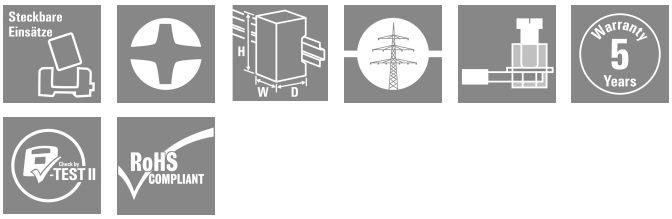
VPU AC I F 1 275/25

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

www.weidmueller.com

Product image

Abb.ähnlich



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	Surge voltage arrester, Low voltage, Surge protection, Single-phase, TN
Order No.	2859330000
Type	VPU AC I F 1 275/25
GTIN (EAN)	4064675570509
Qty.	1 items

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Technical data

Approvals

Approvals	
ROHS	Conform

Dimensions and weights

Depth	86 mm	Depth (inches)	3.3858 inch
Height	90 mm	Height (inches)	3.5433 inch
Width	36 mm	Width (inches)	1.4173 inch
Net weight	330 g		

Temperatures

Storage 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%

Connection data, remote alert

Connection type	PUSH IN

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	Surge protection	Design	Installation housing; 2TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	black, orange
Suitable for	Count-in installation (leakage current free)	Protection degree	IP20 in installed state
Mounting rail	TS 35	Operating altitude	≤ 2000 m

Insulation coordination acc. to EN 50178

Surge voltage category	IV	Pollution severity	2

Rated data IEC / EN

Number of poles	1	Signalling contact	No
Rated voltage (AC)	230 V	Low voltage network	Single-phase, TN
Voltage type	AC	Temporary surge voltage (over-voltage) - TOV	442 V
Response time / fallback time	<100 ns	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Suitable for	Count-in installation (leakage current free)
Standards	IEC 61643-11, EN 61643-11	Lightning test current limp (10/350 µs) (L-PE)	25 kA

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Technical data

Lightning test current, limp (10/350 µs) (N-PE)	25 kA	Requirements class, acc. to EN 61643-11	T1, T2, T3
Requirements category acc. to IEC 61643-11	Type I, Type II, Type III	Max. continuous voltage, Uc (AC)	275 V
Mains voltage	230 V / 400 V	Energy coordination (≤10 m)	Type I, Type II, Type III
Discharge current In (8/20µs) wire-PE	25 kA	Discharge current Imax (8/20µs) wire-PE	65 kA
Protection level Up at IN (L/N-PE)	≤ 1.5 kV	Short-circuit current rating ISCCR	100 kA
Integrated back-up fuse	Yes		

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 mm²	Clamping range, min.	1.5 mm²
Clamping range, max.	35 mm²	Wire cross-section, solid, min.	1.5 mm²
Wire cross-section, solid, max.	35 mm²	Wire connection cross section, finely stranded, min.	1.5 mm²
Wire connection cross section, finely stranded, max.	25 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm²	Connection cross-section, stranded, min.	1.5 mm²
Connection cross-section, stranded, max.	35 mm²		

Electrical data

Voltage type	AC

General data

Number of poles	1	Protection degree	IP20 in installed state
Colour	black, orange		

Guarantee

Time interval	5 years

Important note

Product information	If F1 > 315A gG, then the integrated backup fuse always operates before F1
Notes	Additional tests for 100kA Isccr have been passed without certification.

Classifications

ETIM 8.0	EC001457	ETIM 9.0	EC001457
ETIM 10.0	EC001457	ECLASS 14.0	27-17-12-04
ECLASS 15.0	27-17-12-04		

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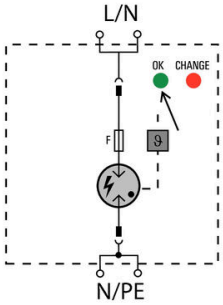
Drawings

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 PH1 X 80	Version
Order No.	2749890000	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 ST	

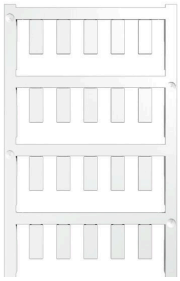
Slotted screwdriver

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.	2749850000	Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade
GTIN (EAN)	4050118897050	thickness (A): 1 mm
Qty.	1 ST	

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.

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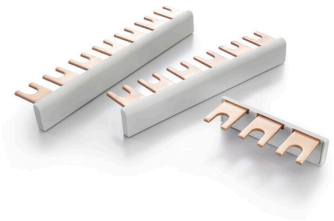
Accessories

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 ST	

VPU Busbar



General ordering data

Type	VPU AC FB 16-2	Version
Order No.	2904360000	
GTIN (EAN)	4099986009769	
Qty.	10 ST	
Type	VPU AC FB 16-3	Version
Order No.	2904370000	
GTIN (EAN)	4099986009783	
Qty.	10 ST	
Type	VPU AC FB 16-4	Version
Order No.	2904380000	
GTIN (EAN)	4099986009790	
Qty.	10 ST	
Type	VPU AC FB 16-6	Version
Order No.	2904390000	
GTIN (EAN)	4099986009806	
Qty.	10 ST	
Type	VPU AC FB 16-7	Version
Order No.	2904400000	
GTIN (EAN)	4099986009813	
Qty.	10 ST	

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Accessories

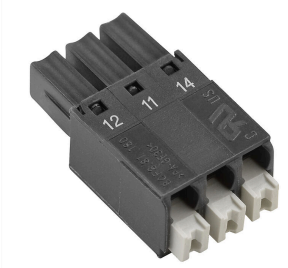
Spare arrester

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

Type	VPU AC I F 0 275/25	Version
Order No.	2859350000	Surge voltage arrester, Low voltage, Surge protection, Single-phase,
GTIN (EAN)	4064675570578	TN
Qty.	1 ST	

VPU Series



Extensive accessories round off the product range

General ordering data

Type	VPU LOCKING CLIP L	Version
Order No.	2735070000	
GTIN (EAN)	4050118816402	
Qty.	10 ST	