

VPU AC I F 1 R 275/25
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

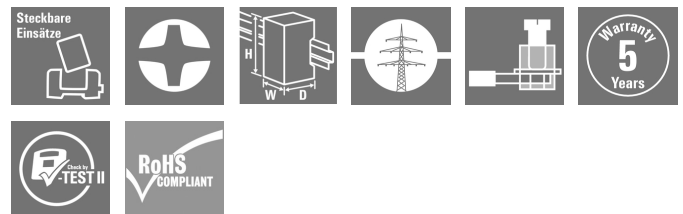
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Product image


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.	2859340000
Type	VPU AC I F 1 R 275/25
GTIN (EAN)	4064675570516
Qty.	1 pc(s).
Replacement parts	2859350000 2855300000

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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	36 mm	Width (inches)	1.417 inch
Net weight	339 g		

Temperatures

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

General data

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

Insulation coordination acc. to EN 50178

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

Discharge current $I_{\max}$ (8/20 μ s) wire-PE	65 kA	Discharge current I_n (8/20 μ s) wire-PE	25 kA
Energy coordination (≤ 10 m)	Type I, Type II, Type III	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	Not required, internally available
Integrated back-up fuse	Yes	Lightning test current I_{imp} (10/350 μ s) (L-PE)	25 kA
Lightning test current I_{imp} (10/350 μ s)	25 kA	Low voltage network	Single-phase, TN
Mains voltage	230 V / 400 V	Max. continuous voltage, U_c (AC)	275 V
Number of poles	1	Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV
Rated voltage (AC)	230 V	Requirements category acc. to IEC 61643-11	Type I, Type II, Type III
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	IEC 61643-11, EN 61643-11	Suitable for	Count-in installation (leakage current free)
Temporary surge voltage (over-voltage) - TOV	442 V	Voltage type	AC

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 ²	Clamping range, min.	1.5 mm ²
Clamping range, max.	35 mm ²	Wire cross-section, solid, min.	1.5 mm ²
Wire cross-section, solid, max.	35 mm ²	Wire connection cross section, finely stranded, min.	1.5 mm ²
Wire connection cross section, finely stranded, max.	25 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm ²	Connection cross-section, stranded, min.	1.5 mm ²
Connection cross-section, stranded, max.	35 mm ²		

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Technical data

Electrical data

Voltage type AC

Guarantee

Time interval 5 years

Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	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	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption

REACH SVHC No SVHC above 0.1 wt%

Important note

Product information If F1 > 315A gG, then the integrated backup fuse always operates before F1

Notes Additional tests for 100kA Iscr have been passed without certification.

Approvals

Approvals

Approvals MAMID https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/

ROHS Conform

Downloads

Approval/Certificate/Document of Conformity [EU Konformitätserklärung / EU Declaration of Conformity](#)Engineering Data [CAD data – STEP](#)User Documentation [Beipackzettel / Instruction sheet](#)
[FL_PLN_VPU AC I F_EN_WEB](#)
[FL_Application Note_Protection of SPDs_EN_WEB](#)
[FL_Applikationsnotiz_Absicherung von SPDs_DE_WEB](#)Catalogues [Catalogues in PDF-format](#)

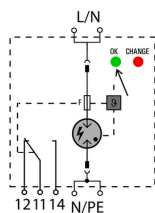
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Drawings

Electric symbol



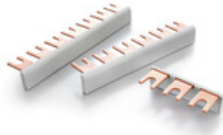
Schematic circuit diagram

VPU AC I F 1 R 275/25**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com**Accessories****VPU Busbar****General ordering data**

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

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Accessories

N-PE



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General ordering data

Type	VPU AC I 1 N-PE 305/100 ...	Version
Order No.	2726800000	Surge voltage arrester, Low voltage, Surge protection, Single-phase,
GTIN (EAN)	4050118802481	TN, TT nur für N-PE
Qty.	1 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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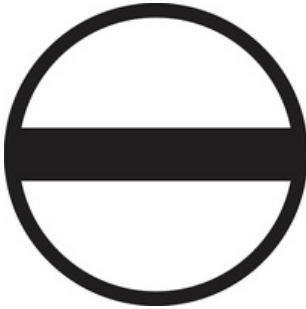
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Accessories

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 pc(s).	

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).	

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www.weidmueller.com**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).

Spare arrester

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General ordering data

Type	VPU AC I F 0 275/25	Version
Order No.	2859350000	Surge voltage arrester, Low voltage, Surge protection
GTIN (EAN)	4064675570578	
Qty.	1 pc(s).	