

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

 Klingenbergstraße 26
 D-32758 Detmold
 Germany

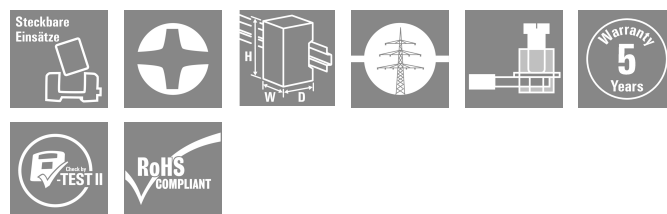
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Product image


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 items

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	86 mm	Depth (inches)	3.3858 inch
Height	105 mm	Height (inches)	4.1338 inch
Width	36 mm	Width (inches)	1.4173 inch
Net weight	339 g		

Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	...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

Cross-section for connected wire, solid core, min.	0.25 mm ²	Cross-section for connected wire, solid core, max.	1.5 mm ²
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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
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Rated data IEC / EN

Number of poles	1	Signalling contact	250 V 1A 1CO
Rated voltage (AC)	230 V	Low voltage network	Single-phase, TN
Voltage type	AC	Temporary surge voltage (over-voltage) - TOV	442 V
Fuse protection	internally available	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

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Lightning test current limp (10/350 µs) 25 kA		Lightning test current limp (10/350 µs) 25 kA (L-PE)	
Lightning test current, limp (10/350 µs) 25 kA (N-PE)		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, U _c (AC)	275 V
Mains voltage	230 V / 400 V	Energy coordination (≤10 m)	Type I, Type II, Type III
Discharge current I _n (8/20µs) wire-PE	25 kA	Discharge current I _{max} (8/20µs) wire-PE	65 kA
Protection level Up at I _N (L/N-PE)	≤ 1.5 kV	Short-circuit current rating I _{SCCR}	100 kA
Integrated back-up fuse	Yes		

Connection data

Stripping length		Wire connection method	
18 mm		Screw connection	
Type of connection		Stripping length, rated connection	
Screw connection		18 mm	
Tightening torque, min.		Tightening torque, max.	
3 Nm		4.5 Nm	
Clamping range, rated connection		Clamping range, min.	
16 mm ²		1.5 mm ²	
Clamping range, max.		Wire cross-section, solid, min.	
35 mm ²		1.5 mm ²	
Wire cross-section, solid, max.		Wire connection cross section, finely stranded, min.	
35 mm ²		1.5 mm ²	
Wire connection cross section, finely stranded, max.		Conductor cross-section, flexible, AEH (DIN 46228-1), min.	
25 mm ²		2.5 mm ²	
Conductor cross-section, flexible, AEH (DIN 46228-1), max.		Connection cross-section, stranded, min.	
35 mm ²		1.5 mm ²	
Connection cross-section, stranded, max.			

Electrical data

Voltage type	AC
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General data

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

Guarantee

Time interval	5 years
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Important note

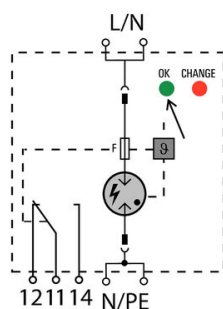
Product information	If F1 > 315A gG, then the integrated backup fuse always operates before F1
Notes	Additional tests for 100kA I _{sc} have been passed without certification.

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		

Drawings

Electric symbol



Schematic circuit diagram