

VPU AC I F 0 N-PE 275/25

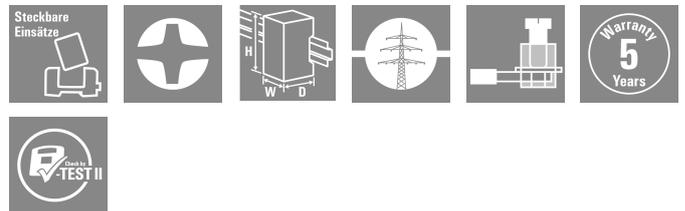
Weidmüller Interface GmbH & Co. KG

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Germany

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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, TN
Order No.	3022930000
Type	VPU AC I F 0 N-PE 275/25
GTIN (EAN)	4099986942226
Qty.	1 items

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Technical data

Approvals

ROHS	Conform
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Dimensions and weights

Depth	73 mm	Depth (inches)	2.874 inch
Height	45 mm	Height (inches)	1.7716 inch
Width	36 mm	Width (inches)	1.4173 inch
Net weight	95 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%

General data

Optical function display	green = OK; red = arrester is defective - replace	Version	Surge protection
Design	Insta IP 20	UL 94 flammability rating	V-0
Colour	orange	Protection degree	IP20 in installed state
Mounting rail	TS 35	Operating altitude	≤ 2000 m

Insulation coordination acc. to EN 50178

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

Number of poles	1	Signalling contact	No
Rated voltage (AC)	230 V	Low voltage network	TN
Protection level Up at IN (N-PE)	≤ 1.5 kV	Voltage type	AC
Temporary surge voltage (over-voltage) - TOV	442 V	Fuse protection	Not required
Response time / fallback time	<100 ns	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Standards	IEC61643-11, EN61643-11
Lightning test current limp (10/350 μs)	25 kA	Lightning test current limp (10/350 μs) (L-PE)	25 kA
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 II, Type I	Max. continuous voltage, Uc (AC)	305 V
Mains voltage	230 V / 400 V	Discharge current In (8/20μs) N-PE	100 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	Discharge current In (8/20μs) wire-PE	25 kA
Discharge current I _{max} (8/20μs) wire-PE	65 kA	Short-circuit current rating ISCCR	100 kA
Follow-on current extinguishing capability I _{fi}	Not available due for technical reasons	Integrated back-up fuse	Yes

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Connection data

Stripping length	18 mm	Tightening torque, min.	2 Nm
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

Electrical data

Voltage type	AC
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General data

Number of poles	1	Protection degree	IP20 in installed state
Colour	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
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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		