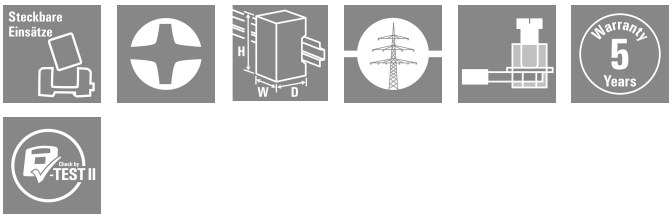
Data sheet

VPU AC I F 0 275/25 MP

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

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	Surge voltage arrester, Low voltage, Surge protection, TN
Order No.	3056190000
Type	VPU AC I F 0 275/25 MP
GTIN (EAN)	4099987030458
Qty.	1 items

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Technical data

Approvals

ROHS	Conform

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	198 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	3

Rated data IEC / EN

Number of poles	1	Signalling contact	No
Rated voltage (AC)	230 V	Low voltage network	TN
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 I, Type II
Max. continuous voltage, Uc (AC)	305 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)	≤ 2.35 kV
Short-circuit current rating ISCCR	100 kA	Follow-on current extinguishing capability Ifi	Not available due for technical reasons
Integrated back-up fuse	Yes		

Connection data

Stripping length	18 mm	Tightening torque, min.	2 Nm
Wire cross-section, solid, min.	1.5 mm²	Wire cross-section, solid, max.	35 mm²

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Wire connection cross section, finely stranded, min.	1.5 mm²	Wire connection cross section, finely stranded, max.	25 mm²

Electrical data

Voltage type	AC

General data

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

Guarantee

Time interval	5 years

Important note

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

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