

VPU AC I 3+1 R 275/25 LCF S 2N
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. A special Type I and Type II protective device is even available for photovoltaic applications.

General ordering data

Version	, Surge protection, Leakage-current-free, with remote contact, TN-C-S, TN-S, TT, IT with N, IT without N
Order No.	2730290000
Type	VPU AC I 3+1 R 275/25 LCF S 2N
GTIN (EAN)	4050118813890
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Last order date	2026-06-01T00:00:00+02:00
Alternative product	VPU AC I 3+1 R 275/25 LCF S 2PE

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	91 mm	Depth (inches)	3.5827 inch
Height	104.5 mm	Height (inches)	4.1142 inch
Width	72 mm	Width (inches)	2.8346 inch
Net weight	691 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 (remote alert), min.	0.14 mm ²	Stripping length	8 mm
Connection type	PUSH IN	Cross-section for connected wire, solid core (remote alert), max.	1.5 mm ²

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	Surge protection, Leakage-current-free, with remote contact	Design	Installation housing; 4TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	black, orange, blue
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	4	Leakage current (nominal voltage)	1 µA
Signalling contact	250 V 1A 1CO	Rated voltage (AC)	230 V
Low voltage network	TN-C-S, TN-S, TT, IT with N, IT without N	Protection level Up at IN (N-PE)	≤ 1.5 kV
Voltage type	AC	Temporary surge voltage (overvoltage)	442 V
Fuse protection	No Fuse necessary ≤ 315 A gG	Response time / fallback time	< 100 ns
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz

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Standards	IEC 61643-11, EN 61643-11	Lightning test current limp (10/350 µs) (L-PE)	25 kA
Lightning test current, limp (10/350 µs) (N-PE)	100 kA	Requirements class, acc. to EN 61643-11	T1, T2
Requirements category acc. to IEC 61643-11	Type I, Type II	Max. continuous voltage, U _c (AC)	275 V
Continuous voltage (N / PE), max.	305 V	Note follow current capability	No tripping of a 16 A gG fuse up to prospective 50 kA _{eff}
Mains voltage	230 V / 400 V	Discharge current I _{max} (8/20µs) N-PE	150 kA
Discharge current I _n (8/20µs) N-PE	100 kA	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 IN (L/N-PE)	≤ 1.5 kV	Short-circuit current rating ISCCR	50 kA
Follow-on current extinguishing capability I _{fi}	50 kA	Integrated back-up fuse	No
PE conductor current	1 µA		

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.	2.5 mm ²
Wire cross-section, solid, max.	35 mm ²	Wire connection cross section, finely stranded, min.	2.5 mm ²
Wire connection cross-section, finely stranded, max.	25 mm ²	Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), min.	2.5 mm ²
Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), max.	35 mm ²	Connection cross-section, stranded, min.	2.5 mm ²
Connection cross-section, stranded, max.	35 mm ²		

Electrical data

Voltage type	AC
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General data

Number of poles	4	Protection degree	IP20 in installed state
Colour	black, orange, blue		

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

