

VPU AC II F 3+1 300/40**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**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 II 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, Class II surge protection, no leakage current, TN-C-S, TN-S, TT, IT with N, IT without N
Order No.	2827630000
Type	VPU AC II F 3+1 300/40
GTIN (EAN)	4064675366621
Qty.	1 items

VPU AC II F 3+1 300/40

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	68 mm	Depth (inches)	2.6772 inch
Depth including DIN rail	76 mm	Height	90 mm
Height (inches)	3.5433 inch	Width	72 mm
Width (inches)	2.8346 inch	Net weight	468 g

Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	-40 °C...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.	0.25 mm ²	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	Class II surge protection, no leakage current	Design	Installation housing; 4TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	orange, black, Light Blue
Protection degree	IP20 in installed state	Mounting rail	TS 35
Acoustic signal	No	Operating altitude	≤ 4000 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	Combined pulse UOC	6 kV
Leakage current (nominal voltage)	5 µA	Signalling contact	No, 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)	337 V	Fuse protection	internally available
Response time / fallback time	≤ 25 ns	Frequency range, max.	60 Hz

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Frequency range, min.	50 Hz	Standards	IEC 61643-11, EN 61643-11
Requirements class, acc. to EN 61643-11	T2, T3	Requirements category acc. to IEC 61643-11	Type II, Type III
Max. continuous voltage, U_c (AC)	300 V	Continuous voltage (N / PE), max.	305 V
Mains voltage	230 V / 400 V	Discharge current I_{max} (8/20 μ s) N-PE	65 kA
Discharge current I_n (8/20 μ s) N-PE	40 kA	Energy coordination (≤ 10 m)	Type II, Type III
Discharge current I_n (8/20 μ s) wire-PE	20 kA	Acoustic signal	No
Discharge current I_{max} (8/20 μ s) wire-PE	40 kA	SPD type	T2, T3
Protection level Up at I_n (L/N-PE)	≤ 1500 V	Short-circuit current rating ISCCR	100 kA
Follow-on current extinguishing capability I_{fi}	Follow current need not be taken into account	Integrated back-up fuse	Yes

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 connection cross section AWG, min.	AWG 16
Wire connection cross section AWG, max.	AWG 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 with wire end ferrule (DIN 46228-1), min.	2.5 mm ²
Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), max.	25 mm ²	Connection cross-section, stranded, min.	1.5 mm ²
Connection cross-section, stranded, max.	35 mm ²		

Electrical data

Voltage type	AC
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General data

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

Guarantee

Time interval	5 years
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Important note

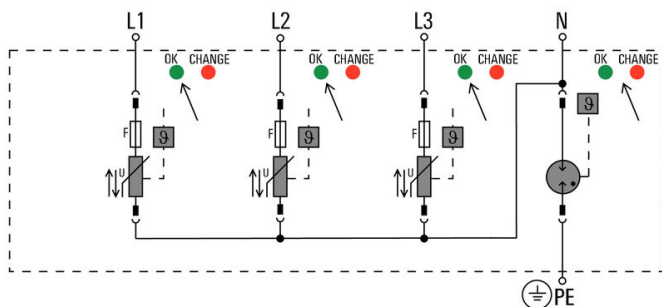
Product information	If $F1 > 63A$ gG, then the integrated backup fuse always operates before F1
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Classifications

ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	EC000941	ECLASS 14.0	27-17-12-02
ECLASS 15.0	27-17-12-02		

Drawings

Electric symbol



Schematic circuit diagram