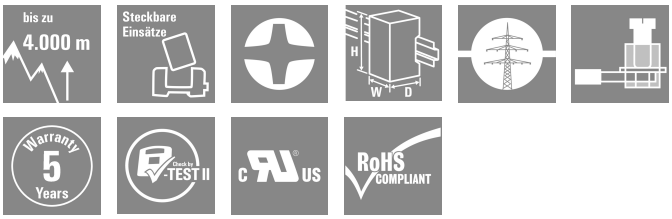
Data sheet

VPU AC II 1 N-PE 305/65

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 voltage arrester, Low voltage, Surge protection, Single-phase, TN, TT nur für N-PE
Order No.	2591180000
Type	VPU AC II 1 N-PE 305/65
GTIN (EAN)	4050118599756
Qty.	1 items

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E3542610000

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	18 mm
Width (inches)	0.7087 inch	Net weight	120 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

Connection type	PUSH IN

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	Surge protection	Design	Installation housing; 1TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	black, blue
Protection degree	IP20 in installed state	Mounting rail	TS 35
Operating altitude	≤ 4000 m		

Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2

Rated data IEC / EN

Number of poles	1	Combined pulse UOC	6 kV
Leakage current (nominal voltage)	1 µA	Signalling contact	No
Rated voltage (AC)	230 V	Low voltage network	Single-phase, TN, TT nur für N-PE
Protection level Up at IN (N-PE)	≤ 1.5 kV	Voltage type	AC
Temporary surge voltage (overvoltage)	1200 V	Fuse protection	Not required
Response time / fallback time	≤ 100 ns	Frequency range, max.	60 Hz

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Technical data

Frequency range, min.	50 Hz	Standards	IEC 61643-11, EN 61643-11, UL 1449
Requirements class (EN 61643-11)	T2, T3	Requirements category acc. to IEC 61643-11	Type II, Type III
Continuous voltage (N / PE), max.	305 V	Mains voltage	230 V / 400 V
Discharge current Imax (8/20µs) N-PE	65 kA	Discharge current In (8/20µs) N-PE	40 kA
Energy coordination (≤10 m)	Type II, Type III	SPD type	T2, T3
Protection level Up at IN (L/N-PE)	≤ 1500 V	Short-circuit current rating ISCCR	0.1 kA
Discharge current (type III)	3 kA	With integrated back-up fuse	No

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 mm²	Conductor cross-section (rated connection), min.	1.5 mm²
Conductor cross-section (rated connection), max.	35 mm²	Wire connection cross section AWG, min.	AWG 16
Wire connection cross section AWG, max.	AWG 2	Wire cross-section, solid, min.	1.5 mm²
Wire cross-section, solid, max.	35 mm²	Wire connection cross section, finely stranded, min.	1.5 mm²
Wire connection cross-section, finely stranded, max.	25 mm²	Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), min.	2.5 mm²
Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), max.	35 mm²	Connection cross-section, stranded, min.	1.5 mm²
Connection cross-section, stranded, max.	35 mm²		

Electrical data

Voltage type	AC

General data

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

Guarantee

Time interval	5 years

Important note

Product information	Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018).

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		

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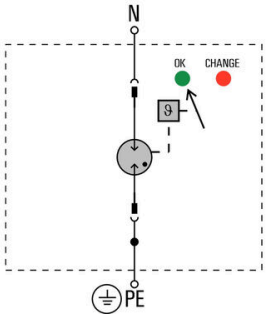
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Drawings

Electric symbol



Schematic circuit diagram

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