

VPU AC I 3 300/12.5 LCF
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, TN-C, $U_p(L/N-PE) \leq 1.5 \text{ kV}$
Order No.	2636970000
Type	VPU AC I 3 300/12.5 LCF
GTIN (EAN)	4050118678697
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	91 mm	Depth (inches)	3.583 inch
Height	96.3 mm	Height (inches)	3.791 inch
Net weight	511 g	Width	52 mm
Width (inches)	2.047 inch		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...70 °C
Humidity	5 - 95% rel. humidity		

Rated data UL

Operating altitude	≤ 4000 m	Ambient temperature (operational), max. 85 °C	
Rated Voltage U_N	240 V	I_n	20 kA
Category	SPD TYPE 4CA	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E354261	MODE	L-L, L-G
Measured. Limiting Voltage	2,440 V	VPR (L-L)	2,440 V
VPR (L-PE)	1,220 V	Voltage type	AC

General data

Colour	orange, black	Design	Installation housing; 3TE, Insta IP 20
Operating altitude	≤ 4000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20 in installed state	Rail	TS 35
Segment	Power distribution	Suitable for	Count-in installation (leakage current free)
UL 94 flammability rating	V-0	Version	Surge protection

Insulation coordination acc. to EN 50178

Operating altitude	≤ 4000 m	Pollution severity	2
Surge voltage category	IV, III, II, I		

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Technical data

Rated data IEC / EN

Discharge current $I_{\max}$ (8/20 μ s) wire-PE 65 kAEnergy coordination (≤ 10 m)

Type I, Type II, Type III

Frequency range, max.

60 Hz

Fuse

No Fuse necessary ≤ 315 A gG, 250 A gG @50 kA
I_{sc}cr, 315 A gG @25 kA
I_{sc}crLightning test current I_{imp} (10/350 μ s)

(L-PE)

12.5 kA

Max. continuous voltage, U_c (AC)

300 V

Protection level U_p (typ.) ≤ 1.5 kV

Rated voltage (AC)

230 V

Requirements class, acc. to EN 61643-11

T1, T2

Short-circuit current rating I_{SCCR}

50 kA

Standards

IEC61643-11,
EN61643-11

Temporary surge voltage (over-voltage) - TOV

442 V

Discharge current I_n (8/20 μ s) wire-PE 20 kAFollow-on current extinguishing capability I_{fi}

Not available due for technical reasons

Frequency range, min.

50 Hz

Leakage current at U_n 1 μ A

Low voltage network

TN-C

Number of poles

3

Protection level U_p at I_N (N-PE) ≤ 1.5 kV

Requirements category acc. to IEC 61643-11

Type I, Type II

Response time

 ≤ 25 ns

Signalling contact

No

Suitable for

Count-in installation (leakage current free)

Voltage type

AC

Connection data

Wire connection method Screw connection

Stripping length, rated connection

15 mm

Tightening torque, max.

4.5 Nm

Clamping range, min.

4 mm²

Wire cross-section, solid, min.

2.5 mm²

Wire connection cross section, finely stranded, min.

2.5 mm²

Conductor cross-section, flexible, AEH (DIN 46228-1), min.

2.5 mm²

Connection cross-section, stranded, min.

2.5 mm²

Type of connection Screw connection

Tightening torque, min.

2 Nm

Clamping range, rated connection

16 mm²

Clamping range, max.

35 mm²

Wire cross-section, solid, max.

35 mm²

Wire connection cross section, finely stranded, max.

35 mm²

Conductor cross-section, flexible, AEH (DIN 46228-1), max.

35 mm²

Connection cross-section, stranded, max.

35 mm²

Ratings IECEx/ATEX/cUL

Certificate no. (cULus)

E354261

Guarantee

Time interval

5 years

Classifications

ETIM 6.0

EC000941

ECLASS 9.0

27-13-08-05

ECLASS 10.0

27-13-08-05

ETIM 7.0

EC000941

ECLASS 9.1

27-13-08-05

ECLASS 11.0

27-13-08-05

Important note

Product information

For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V

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www.weidmueller.com**Technical data****Approvals**

Approvals



ROHS	Conform
UL File Number Search	E354261

Downloads

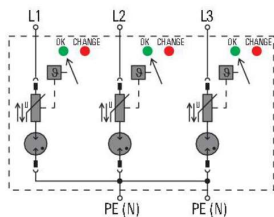
Approval/Certificate/Document of Conformity	EAC VPU SERIES Declaration of Conformity Declaration of Conformity Declaration of Conformity
Engineering Data	STEP
Tender specification	Ausschreibungstext DE Tenderspecification EN
User Documentation	Instruction sheet
Brochure/Catalogue	Catalogues in PDF-format

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www.weidmueller.com**Drawings****Electric symbol**

Schematic circuit diagram