

VPU AC II US 3+1 277/50

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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 Germany

www.weidmueller.com

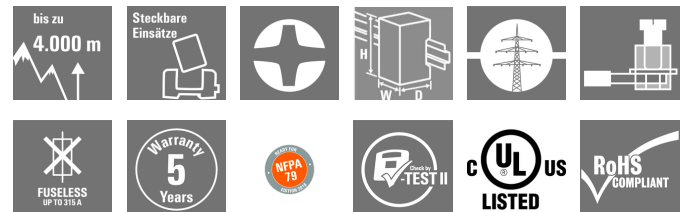


Abb.ähnlich

- compact SPD to install in application by NFPA 79
- no additional overcurrent protection devices needed
- short circuit current rating (SCCR) up to 200 kA
- tested according to IEC/EN 61643-11 and UL 1449 4.Ed

General ordering data

Version	Surge voltage arrester, Low voltage, Surge protection, TN-C-S, TN-S, TT, IT with N, $U_p(L/N-PE) \leq 1.75 \text{ kV}$
Order No.	2730670000
Type	VPU AC II US 3+1 277/50
GTIN (EAN)	4050118807431
Qty.	1 Stück

Erstellungs-Datum February 18, 2021 9:40:57 PM CET

Katalogstand 12.02.2021 / Technische Änderungen vorbehalten

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Technische Daten

Dimensions and weights

Depth	68 mm	Depth (inches)	2.677 inch
Depth including DIN rail	76 mm	Height	96.3 mm
Height (inches)	3.791 inch	Mounting dimension - height	75 mm
Net weight	468 g	Width	72 mm
Width (inches)	2.835 inch		

Temperatures

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

Rated data UL

Operating altitude	≤ 4000 m	Ambient temperature (operational), max.	85 °C
Rated Voltage U_N	277 V	VPR (N-PE)	1,000 V
MCOV (N-PE)	305 V	SCCR	200 kA
I_n	20 kA	Category	SPD TYPE 1CA
Connection cross-section AWG, min.	AWG 14	Connection cross-section AWG, max.	AWG 6
Ambient temperature (operational), min.	-40 °C	MODE	all modes
VPR (L-L)	3,000 V	VPR (L-N)	1,500 V
VPR (L-PE)	3,000 V	Voltage type	AC
UL Energy Networks	High-Leg Delta		

General data

Colour	orange, black, blue	Design	Installation housing, 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	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	III		

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Rated data IEC / EN

Discharge current I_{max} (8/20 μ s) wire-PE	50 kA	Discharge current I_{max} (8/20 μ s) N-PE	65 kA
Discharge current I_n (8/20 μ s) N-PE	40 kA	Discharge current I_n (8/20 μ s) wire-PE	20 kA
Energy coordination (≤ 10 m)	Type II, Type III	Follow-on current extinguishing capability I_{fi}	Follow current need not be taken into account
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	No Fuse necessary ≤ 315 A gG, 250 A gG @50 kA Iscrr, 315 A gG @25 kA Iscrr	Leakage current at U_n	1 μ A
Low voltage network	TN-C-S, TN-S, TT, IT with N	Mains voltage	277 V / 480 V
Max. continuous voltage, U_c (AC)	350 V	Max. continuous voltage, U_c (N-PE)	305 V
Number of poles	4	Protection level U_p (typ.)	≤ 1.75 kV
Protection level U_p at I_n (N-PE)	≤ 1.5 kV	Rated voltage (AC)	277 V
Requirements category acc. to IEC 61643-11	Type II	Requirements class, acc. to EN 61643-11	T2
Response time	≤ 25 ns, $< 100\mu$ s	SPD type	T2
Short-circuit current rating I_{SCCR}	50 kA	Signalling contact	No
Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4, NFPA 79	Temporary surge voltage (over-voltage) - TOV	403 V
Voltage type	AC		

Connection data

Wire connection method	Screw connection	Type of connection	Screw connection
Stripping length, rated connection	18 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	4.5 Nm	Clamping range, rated connection	16 mm ²
Clamping range, min.	4 mm ²	Clamping range, max.	35 mm ²
Wire connection cross section AWG, min.	AWG 14	Wire connection cross section AWG, max.	AWG 6
Wire cross-section, solid, min.	2.5 mm ²	Wire cross-section, solid, max.	35 mm ²
Wire connection cross section, finely stranded, min.	4 mm ²	Wire connection cross section, finely stranded, max.	35 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm ²
Connection cross-section, stranded, min.	2.5 mm ²	Connection cross-section, stranded, max.	35 mm ²

Ratings IECEx/ATEX/cUL

Certificate no. (cULus) E354261

Guarantee

Time interval 5 years

Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ECLASS 9.0	27-13-08-05	ECLASS 9.1	27-13-08-05
ECLASS 10.0	27-13-08-05	ECLASS 11.0	27-13-08-05

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Approvals

Approvals

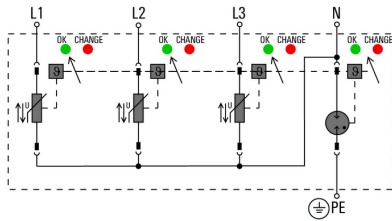


ROHS	Conform
UL File Number Search	E354261

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	STEP
User Documentation	IS VPU AC II US

Electric symbol



Schematic circuit diagram

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