

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
Order No.	2730670000
Type	VPU AC II US 3+1 277/50
GTIN (EAN)	4050118807431
Qty.	1 pc(s).
Replacement parts	2730560000 2726820000

Creation date May 19, 2022 11:57:55 AM CEST

Catalogue status 06.05.2022 / We reserve the right to make technical changes.

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Technical data

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	Width	72 mm
Width (inches)	2.835 inch	Mounting dimension - height	75 mm
Net weight	468 g		

Temperatures

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

Rated data UL

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 1	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	3-phase WYE, 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

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 I_{sc} , 315 A gG @25 kA I_{sc}	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 at I_N (L/N-PE)	≤ 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, NFPA 79	Temporary surge voltage (over-voltage) - TOV	403 V
Voltage type	AC		

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.	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
ETIM 8.0	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	ECLASS 12.0	27-17-90-90

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Data sheet

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Approvals

Approvals



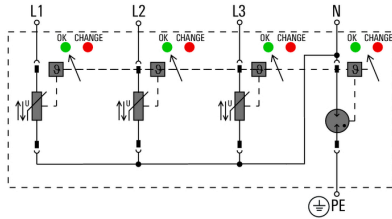
ROHS	Conform
UL File Number Search	E354261

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format

Drawings

Electric symbol



Schematic circuit diagram