

VPU AC II US 3 277/50**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

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
Order No.	2730590000
Type	VPU AC II US 3 277/50
GTIN (EAN)	4050118807516
Qty.	1 pc(s).
Replacement parts	2730560000 2735080000

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Technical data

Dimensions and weights

Depth	68 mm	Depth (inches)	2.677 inch
Depth including DIN rail	76 mm	Height	90 mm
Height (inches)	3.543 inch	Width	54 mm
Width (inches)	2.126 inch	Mounting dimension - height	75 mm
Net weight	378 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
MCOV (L-PE)	350 V	SCCR
I _n	20 kA	Category
Connection cross-section AWG, min.	AWG 14	SPD TYPE 1
Ambient temperature (operational), min. -40 °C		Connection cross-section AWG, max.
VPR (L-L)	2,000 V	AWG 6
Voltage type	AC	MODE
		all modes
		VPR (L-PE)
		1,000 V
		UL Energy Networks
		3-phase WYE

General data

Number of poles	3	Protection degree	IP20 in installed state
Colour	orange, black		

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} (8/20μs) wire-PE	50 kA	Discharge current I_n (8/20μs) 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_{scrr} , 315 A gG @25 kA I_{scrr}	Leakage current at U_n	0.5 mA
Low voltage network	TN-C	Mains voltage	230 V / 400 V
Max. continuous voltage, U_c (AC)	350 V	Number of poles	3
Protection level U_p at I_n (L/N-PE)	≤ 1.75 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	SPD type	T2
Short-circuit current rating I_{scrr}	50 kA	Signalling contact	No
Standards	IEC 61643-11, EN 61643-11, UL 1449, NF-PA 79	Temporary surge voltage (over-voltage) - TOV	403 V
Voltage type	AC		

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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.	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		

Electrical data

Voltage type	AC
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Ratings IECEx/ATEX/cUL

Certificate no. (cULus)	E354261
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Guarantee

Time interval	5 years
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Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	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
ECLASS 13.0	27-17-90-90	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

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Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/
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ROHS	Conform
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UL File Number Search	UL Website
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Certificate no. (cULus)	E354261
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Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
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Engineering Data	CAD data – STEP
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User Documentation	Beipackzettel / Instruction sheet
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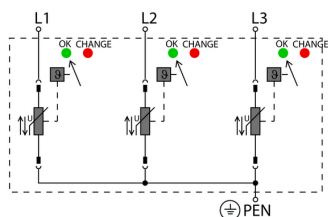
Catalogues	Catalogues in PDF-format
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www.weidmueller.com**Drawings****Electric symbol**

Schematic circuit diagram