Surge protection
VPU I 3+1 LCF 280V/25KA

Weidmüller Interface GmbH & Co. KG
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Type I/II lightning arrester for use downstream/ upstream of the electrical meter

- No-leakage-current version suitable for use upstream of the electrical meter
- Suitable for protective zones III and IV (LPL III/IV)
- Can also be used as Type II surge protection
- Tested according to IEC 61643-11 for Type I and II surge protection
- Pluggable arrester

General ordering data

Order No.	1351780000
Type	VPU I 3+1 LCF 280V/25KA
Version	Surge protection, Low voltage, Type I + II, 230 V, 25 kA , without telecomm. contact, LPL: I, II, III, U_P: ≤ 1.6 kV
GTIN (EAN)	4050118158397
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	144 mm	Height	94 mm
Depth	69 mm	Mounting dimension - height	75 mm
Net weight	1,297 g		

Temperatures

Humidity	0...95 % (no condensation)	Operating temperature	-40 °C...+70 °C
Storage temperature	-40 °C...+80 °C		

Discharge surge current of top part

Limiting discharge current (8/20 µs) I_{max}	100 kA	Rated discharge current (8/20 µs) I_N	25 kA

General data

Acoustic signal	No	Colour	Black, Arrester red / blue
Design	Installation housing; 8 TE, Insta IP 20	Lightning arrester	Yes
Mounting rail	TS 35, TS 35 x 15, TS 35 x 7.5	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP 20	Segment	Power distribution
UL 94 flammability rating	V-0		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	IV

technical data

Rated voltage (AC)	230 V	Rated voltage	230 V
Max. continuous voltage, Uc (AC)	280 V	Temporary surge voltage (over-voltage) - TOV	440 V
Discharge current I_n (8/20µs) wire-PE	100 kA	Discharge current I_{max} (8/20µs) GND-PE	100 kA
Discharge current I_{max} (8/20µs) wire-PE	100 kA	Discharge current, max. (10/350 µs)	25 kA
Limiting discharge current (8/20 µs) I_{max}	100 kA	Rated discharge current (8/20 µs) I_N	25 kA
Fuse, max.	250 A gL	Short-circuit current rating I_{SCCR}	25 kA
Discharge current, nominal,per path, (8/20 µs)	25 kA	Total discharge current I_{total}	100 kA
Discharge current, max. (8/20 µs)	100 kA	Short-circuit strength with max. back-up fuse	25 kA_{eff}
Protection level U_P (typ.)	≤ 1.6 kV	Protection level U_P L (PE) - N	≤ 1.6 kV
Protection level at In (N-PE)	< 1500 V	Leakage current at U_n	30 µA
Signalling contact	No	Standards	IEC61643-11, EN61643-11
Colour	Black, Arrester red / blue	Humidity	0...95 % (no condensation)
Requirements class, acc. to EN 61643-11	T1, T2	Requirements category acc. to IEC 61643-11	Type I, Type II
Response time	≤ 100 ns	Lightning test current I_{imp} (10/350 µs)	25 kA
Lightning test current I_{imp} (10/350 µs) [L-PE]	25 kA	Lightning test current I_{imp} (10/350 µs) [N-PE]	100 kA

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Technical data

Connection data

Clamping range, rated connection	16 mm²	Clamping range, rated connection, min.	4 mm²
Clamping range, rated connection, max.	50 mm²	Wire connection cross section, stranded, rated connection, min.	1.5 mm²
Wire connection cross section, stranded, rated connection, max.	50 mm²	Tightening torque, min.	2 Nm
Tightening torque, max.	3 Nm	Stripping length, rated connection	15 mm
Wire connection cross section, finely stranded, max.	25 mm²		

Classifications

ETIM 3.0	EC000381	UNSPSC	30-21-19-22
eClass 4.1	27-14-02-01	eClass 5.1	27-14-02-01
eClass 6.2	27-13-08-02	eClass 7.1	27-14-02-01

Approvals

Approvals	
ROHS	Conform

Downloads

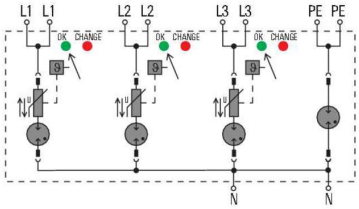
Package insert	Instruction sheet
Declaration of Conformity	K503_09_12.pdf
EPLAN	1351780000.ema
3-D model	

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Drawings

Electric symbol



Circuit diagram