

Lightning arrester type 1 - FLT-PLUS - 2800116

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Type 1/Class I (lightning arrester) with arc chopping spark gap, quenching plates for high follow current quenching capacity, 1-channel. Housing width: 35 mm (2 Div.)



Product Features

- High discharge capacity
- Single-channel



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 480017
Weight per Piece (excluding packing)	519.1 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	150 mm
Width	35.5 mm
Depth	65.5 mm
Horizontal pitch	2 Div.

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

General

Standards/specifications	IEC 61643-11 2011
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Technical data

General

	EN 61643-11 2012
IEC test classification	I
	T1
EN type	T1
IEC power supply system	TT
	TN-C
	TN-S
Number of ports	One
SPD design	Voltage-switching type
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	black
Housing material	PA 6.6
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	Rail-mountable module, one-piece
Number of positions	1
Surge protection fault message	None

Protective circuit

Nominal voltage U_N	230/400 V AC (TN)
	230/400 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C (L-PEN)	440 V AC
Rated load current I_L	80 A
Residual current I_{PE}	≤ 0.1 mA
Standby power consumption P_C	≤ 44 mVA
Nominal discharge current I_n (8/20) μ s (L-PEN)	50 kA
Impulse discharge current (10/350) μ s (L-PEN), charge	25 As
Impulse discharge current (10/350) μ s (L-PEN), specific energy	625 kJ/ Ω
Impulse discharge current (10/350) μ s (L-PEN), peak current value I_{imp}	50 kA
Follow current interrupt rating I_{fi} (L-PEN)	25 kA
Short-circuit current rating I_{SCCR}	25 kA
Voltage protection level U_p (L-PEN)	≤ 5 kV
Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 5 kV
TOV behavior at U_T (L-PEN)	440 V AC (5 s / withstand mode)
	440 V AC (120 min / withstand mode)
Response time t_A (L-PEN)	≤ 100 ns
Max. backup fuse with branch wiring	500 A AC (gG)
Max. backup fuse with V-type through wiring	80 A AC (gG)

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Connection data

Connection method	Screw connection
Conductor cross section flexible min.	16 mm ²
Conductor cross section flexible max.	35 mm ²
Conductor cross section solid min.	10 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section AWG	6 ... 1
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

ETIM

ETIM 2.0	EC000381
ETIM 3.0	EC000381
ETIM 4.0	EC000381
ETIM 5.0	EC000381

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

Approvals

EAC

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Approvals

Ex Approvals

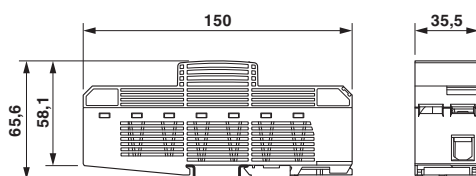
Approvals submitted

Approval details

EAC

Drawings

Dimensional drawing



Circuit diagram

