

Lightning arrester type 1 - FLT-PLUS CTRL-1.5/I - 2818931

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The illustration shows version FLT-PLUS CTRL-0,9

Type 1 / Class I (lightning current arrester) with arc chopping spark gap and ignition electronics, quenching plates for high mains follow-through current quenching capacity, 1-channel. Protection level: 1.5 kV. Housing width: 35 mm (2 Div.)



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 163235
Weight per Piece (excluding packing)	564.4 GRM
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	149.8 mm
Width	35.5 mm
Depth	80.5 mm
Horizontal pitch	2 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Permissible humidity (operation)	≤ 95 %

General

Housing material	PBT/PA-F
Inflammability class according to UL 94	V0

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Technical data

General

Spark gap insulation	PA 6.6 GF
	POM
Color	black
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1
	DIN VDE 0675-6
	IEC 61643-1
	NF C61-740
Surge voltage category	III
Pollution degree	2
Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece
Number of positions	1
Surge protection fault message	Optical
Direction of action	1L-N/PE

Protective circuit

IEC test classification	I
	T1
EN type	T1
Nominal voltage U_N	400 V AC
Maximum continuous operating voltage U_C	440 V AC
Maximum continuous operating voltage U_C (L-N)	440 V AC
Maximum continuous operating voltage U_C (L-PEN)	440 V AC
Nominal frequency f_N	50 Hz
	60 Hz
Residual current I_{PE}	≤ 3 mA
Operating effective current I_C at U_N	≤ 3 mA
Max. discharge current I_{max} (8/20) μ s	50 kA
Nominal discharge current I_n (8/20) μ s	50 kA
Nominal discharge current I_n (8/20) μ s (L-N)	50 kA
Nominal discharge current I_n (8/20) μ s (L-PEN)	50 kA
Impulse discharge current (10/350) μ s, charge	25 As
Impulse discharge current (10/350) μ s, specific energy	625.00 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	50 kA
100% lightning impulse sparkover voltage (1.2/50) μ s	≤ 1.5 kV
Voltage protection level U_p	≤ 1.5 kV

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Protective circuit

Voltage protection level U_p (L-N)	≤ 1.5 kV
Voltage protection level U_p (L-PEN)	≤ 1.5 kV
Response time	≤ 100 ns
Response time (L-N)	≤ 100 ns
Response time (L-PEN)	≤ 100 ns
Max. required backup fuse with branch wiring	250 A (gL)
Short-circuit resistance I_p with max. backup fuse (effective)	50 kA (At 400 V AC)
Short-circuit current self-quenching	50 kA (400 V)
Follow current quenching capacity I_f (L-N)	50 kA (At 400 V AC)
Follow current quenching capacity I_f (L-PEN)	50 kA (At 400 V AC)

Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross section stranded min.	16 mm ²
Conductor cross section stranded max.	35 mm ²
Conductor cross section solid min.	10 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section AWG/kcmil min.	6
Conductor cross section AWG/kcmil max	1

Standards and Regulations

Standards/regulations	E DIN VDE 0675-6/A1
	UL 1449
	IEEE C62.1
	IEEE C62.41
	IEC 61643-1
	prEN 61643-1

Classifications

eCl@ss

eCl@ss 4.0	27140201
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Classifications

eCl@ss

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	27140201

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

GOST

Ex Approvals

Approvals submitted

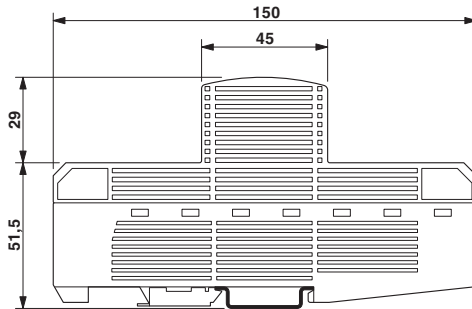
Approval details

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Drawings

Dimensioned drawing



Circuit diagram

