

# Combination type 1/2 protective device - FLT-PLUS CTRL-2.5/ I - 2818957

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

Type 1 / Class I (lightning current arrester) with arc chopping spark gap and ignition electronics with control lamp, quenching plates for high mains follow-through current quenching capacity, 1-channel. Protection level: 2.5 kV. Housing width: 35 mm (2 Div.)



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 163259
GTIN	4017918163259

## 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
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	VDE 0110-1
	IEC 60664-1

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## Technical data

### General

	VDE 0675-6
	NF C61-740
Mounting type	DIN rail: 35 mm
Type	DIN rail 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
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 $I_{PE}$	$\leq 3$ mA
Operating effective current $I_C$ at $U_N$	$\leq 3$ mA
Impulse discharge current (10/350) $\mu$ s, charge	25 As
Impulse discharge current (10/350) $\mu$ s, specific energy	625 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	50 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s	50 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-N)	50 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PEN)	50 kA
Voltage protection level $U_p$	$\leq 2.5$ kV
Voltage protection level $U_p$ (L-N)	$\leq 2.5$ kV
Voltage protection level $U_p$ (L-PEN)	$\leq 2.5$ kV
Response time $t_A$	$\leq 100$ ns
Response time $t_A$ (L-N)	$\leq 100$ ns
Response time $t_A$ (L-PE)	$\leq 100$ ns
Max. backup fuse with branch wiring	250 A (gL)
Short-circuit withstand capability $I_P$ with max. backup fuse (r.m.s.)	50 kA (At 400 V AC)
Follow current interrupt rating $I_{fi}$ (L-N)	50 kA (At 400 V AC)
Follow current quenching capacity $I_{fi}$ (L-PEN)	50 kA (At 400 V AC)

### Connection, protective circuit

Connection method	Screw connection
Connection method IN	Biconnect screw terminal block

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### Connection, protective circuit

Connection method OUT	Biconnect screw terminal block
Connection technology	Biconnect terminal block
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross section flexible min.	16 mm <sup>2</sup>
Conductor cross section flexible max.	35 mm <sup>2</sup>
Conductor cross section solid min.	10 mm <sup>2</sup>
Conductor cross section solid max.	50 mm <sup>2</sup>
Conductor cross section AWG min.	6
Conductor cross section AWG max.	1

### Standards and Regulations

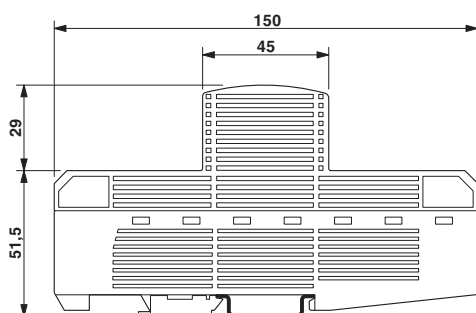
Standards/regulations	E DIN VDE 0675-6/A1 1996
	UL 1449 ed. 2
	IEC 61643-1 1998

### Environmental Product Compliance

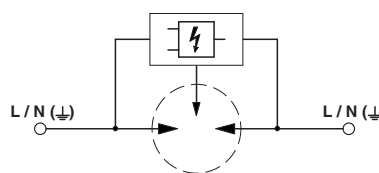
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Dimensional drawing



Circuit diagram



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