

Combination type 1/2 protective device - FLT-PLUS CTRL-3.0/ I - 2800170

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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: 3 kV. Housing width: 35 mm (2 Div.)

Your advantages

- High discharge capacity
- Good follow current quenching capacity with higher rated voltage
- 1-channel
- Direct parallel connection with type 2 arresters supported
- Triggered



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 497787
GTIN	4046356497787

Technical data

Dimensions

Height	150 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 %

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Technical data

General

IEC power supply system	TT
	TN-C
	TN-S
	IT
Housing material	PA-GF
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	EN 60664-1
	EN 61643-11
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
U_T (TOV-proof)	580 V AC (5 sec.)
U_T (TOV-safe)	1640 V AC (200 ms)
Nominal frequency f_N	50 Hz
	60 Hz
Residual current I_{PE}	≤ 3 mA
Standby power consumption P_C	≤ 1.32 VA
Max. discharge current I_{max} (8/20) μ s	50 kA
Impulse discharge current (10/350) μ s, charge	25 As
Impulse discharge current (10/350) μ s, specific energy	625 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	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
Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 3 kV
Voltage protection level U_p	≤ 3 kV
Voltage protection level U_p (L-N)	≤ 3 kV
Voltage protection level U_p (L-PEN)	≤ 3 kV

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Protective circuit

Response time t_A	≤ 100 ns
Response time t_A (L-N)	≤ 100 ns
Response time t_A (L-PE)	≤ 100 ns
Max. backup fuse with branch wiring	500 A (NH-gL)
Short-circuit withstand capability I_P with max. backup fuse (r.m.s.)	25 kA (440 V AC)
	50 kA (350 V AC)
Follow current interrupt rating I_{fi}	25 kA (440 V AC)
	50 kA (350 V AC)

Connection, protective circuit

Connection method	Screw connection
Connection method IN	Biconnect screw terminal block
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 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 min.	6
Conductor cross section AWG max.	1

Standards and Regulations

Standards/regulations	IEC 61643-1 2005
	DIN EN 61643-11 2002
	DIN EN 61643-11/A11 2007

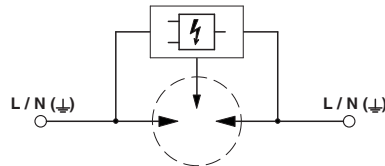
Environmental Product Compliance

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

Drawings

Combination type 1/2 protective device - FLT-PLUS CTRL-3.0/ I - 2800170

Circuit diagram



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