

Combination type 1/2 protective device - FLT 35/3+1 - 2800131


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Type 1 / Class I / B arrester (lightning current arrester) with encapsulated arc chopping spark gap, 4-channel for 3 + 1 circuit. Housing width: 70 mm (4 Div.)

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 496407
GTIN	4046356496407

Technical data

Dimensions

Height	95 mm
Width	70.4 mm
Depth	65.7 mm
Horizontal pitch	4 Div.

Ambient conditions

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

General

IEC power supply system	TT
	TN-S
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

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Technical data

General

Type	DIN rail module, one-piece
Number of positions	4
Surge protection fault message	none
Direction of action	3L-N & N-PE

Protective circuit

IEC test classification	I
	T1
EN type	T1
Maximum continuous operating voltage U_C (L-N)	350 V AC
Maximum continuous operating voltage U_C (N-PE)	260 V AC
U_T (TOV-proof)	350 V (5 sec /L-N)
	1200 V AC (200 ms / N-PE)
Nominal frequency f_N	50 Hz
	60 Hz
Residual current I_{PE}	≤ 0.1 mA
Standby power consumption P_C	≤ 26 mVA
Max. discharge current I_{max} (8/20) μ s maximum (L-N)	35 kA
Max. discharge current I_{max} (8/20) μ s maximum (N-PE)	50 kA
Impulse discharge current (10/350) μ s, charge	17.5 As
Impulse discharge current (10/350) μ s, specific energy	306 kJ/ Ω (L-N)
Impulse discharge current (10/350) μ s, peak value I_{imp}	35 kA (L-N)
Nominal discharge current I_n (8/20) μ s (L-N)	35 kA
Nominal discharge current I_n (8/20) μ s (N-PE)	50 kA
Front of wave sparkover voltage at 6 kV (1.2/50) μ s (L-N)	≤ 5 kV
Front of wave sparkover voltage at 6 kV (1.2/50) μ s (N-PE)	≤ 5 kV
Voltage protection level U_p (L-N)	≤ 5 kV
Voltage protection level U_p (N-PE)	≤ 5 kV
Response time t_A	≤ 100 ns
Response time t_A (L-N)	≤ 100 ns
Response time t_A (N-PE)	≤ 100 ns
Max. backup fuse with branch wiring	400 A (gL)
Short-circuit withstand capability I_P with max. backup fuse (r.m.s.)	25 kA
Follow current interrupt rating I_{fi} (L-N)	1.5 kA
Follow current quenching capacity I_{fi} (N-PE)	500 A

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

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Connection, protective circuit

Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	14.5 mm
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	25 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	2

Standards and Regulations

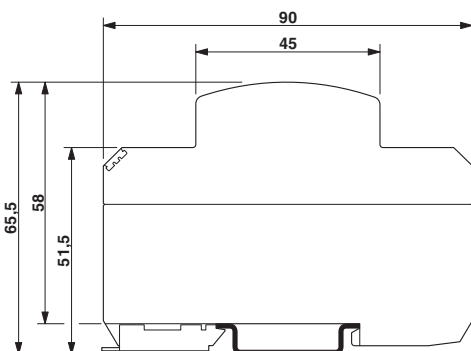
Standards/regulations	IEC 61643-1 2005
	DIN EN 61643-11 2002
	DIN EN 61643-11/A11 2007

Environmental Product Compliance

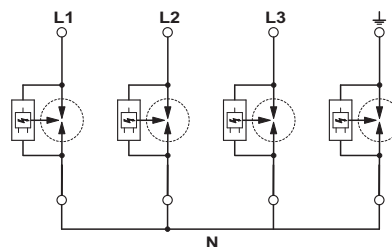
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing



Circuit diagram



Mouser Electronics

Authorized Distributor

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