

FLT-PLUS - Type 1+2 combined lightning current and surge arrester



2800116

<https://www.phoenixcontact.com/de/produkte/2800116>

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



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Technical data

Product properties

Product type	Combination type
IEC test classification	I
	T1
EN type	T1
IEC power supply system	TT
	TN-C
	TN-S
Type	DIN rail module, one-piece
Number of positions	1
Surge protection fault message	none

Insulation characteristics

Overvoltage category	III
Pollution degree	2

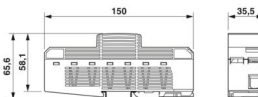
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
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Connection data

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

Dimensions

Dimensional drawing	
Width	35.5 mm
Height	150 mm
Depth	65.6 mm
Horizontal pitch	2 Div.

Material specifications

Color	black (RAL 9005)
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Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Material group	I
Housing material	PA 6.6

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Mode of protection	L-PEN
Direction of action	1L-N/PE
Nominal voltage U_N	230/400 V AC (TN) 230/400 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	440 V AC
Rated load current I_L	80 A
Residual current I_{PE}	≤ 0.1 mA
Standby power consumption P_C	≤ 44.00 mVA
Nominal discharge current I_n (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
Follow current interrupt rating I_{fi}	25 kA
Short-circuit current rating I_{SCCR}	25 kA
Voltage protection level U_p	≤ 5 kV
Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 5 kV
TOV behavior at U_T	440 V AC (5 s / withstand mode) 440 V AC (120 min / withstand mode)
Response time t_A	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A AC (gG)
Max. backup fuse with branch wiring	500 A AC (gG)

Environmental and real-life conditions

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)
Permissible humidity (operation)	5 % ... 95 %

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Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	DIN rail: 35 mm
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