

FLT 35-260 - Type 1+2 combined lightning current and surge arrester



2800110

<https://www.phoenixcontact.com/us/products/2800110>

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Type 1 / Class I / B arrester (lightning current arrester) with encapsulated arc chopping spark gap, 1-channel. Housing width: 17.5 mm (1 Div.)

Commercial data

Item number	2800110
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL01
Product key	CL1131
Catalog page	Page 22 (TT-2011)
GTIN	4046356479967
Weight per piece (including packing)	161.34 g
Weight per piece (excluding packing)	160.34 g
Customs tariff number	85363010
Country of origin	IN

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Technical data

Product properties

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

Insulation characteristics

Overvoltage category	III
Pollution degree	2

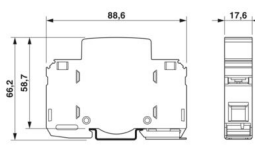
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
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Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	14.5 mm
Conductor cross section flexible min.	2.5 mm ²
Conductor cross section flexible max.	25 mm ²
Conductor cross section, rigid min.	2.5 mm ²
Conductor cross section, rigid max.	35 mm ²
Conductor cross section AWG	6 ... 2

Dimensions

Dimensional drawing	
Width	17.6 mm
Height	88.6 mm
Depth	66.2 mm
Horizontal pitch	1 Div.

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Material specifications

Color	black (RAL 9005)
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 operating voltage U_C (L-PEN)	385 V AC
Rated load current I_L	80 A
Residual current I_{PE}	≤ 0.1 mA
Standby power consumption P_C	≤ 35.00 mVA
Nominal discharge current I_n (8/20) μ s (L-PEN)	35 kA
Impulse discharge current (10/350) μ s (L-PEN), charge	17.5 As
Impulse discharge current (10/350) μ s (L-PEN), specific energy	306 kJ/ Ω
Impulse discharge current (10/350) μ s (L-PEN), peak current value I_{imp}	35 kA
Follow current quenching capacity I_{fi} (L-PEN)	3 kA (260 V AC) 1.5 kA (385 V AC)
Short-circuit current rating I_{SCCR}	3 kA (260 V AC) 1.5 kA (385 V AC)
Voltage protection level U_p (L-PEN)	≤ 5 kV
Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 5 kV
TOV behavior at U_T (L-PEN)	440 V AC (5 s / withstand mode) 440 V AC (120 min / withstand mode)
Response time t_A (L-PEN)	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A AC (gG)
Max. backup fuse with branch wiring	400 A AC (gG)

Environmental and real-life conditions

Ambient conditions

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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 %

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN 60664-1 / EN 61643-11
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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Classifications

ECLASS

ECLASS-11.0	27130802
ECLASS-13.0	27171201

ETIM

ETIM 9.0	EC000381
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

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

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