

# Combination type 1/2 protective device - FLT 100-260 - 2838160

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Type 1 / Class I / B arrester (lightning current arrester) with encapsulated N-PE total spark gap, 1-channel. Housing width: 35 mm (2 Div.)

## Your advantages

- High discharge capacity
- 1-channel



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 165390
GTIN	4017918165390

## Technical data

### Dimensions

Height	89.8 mm
Width	35.8 mm
Depth	65.8 mm
Horizontal pitch	2 Div.

### 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 (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

### General

IEC test classification	I
	T1

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## Technical data

### General

EN type	T1
IEC power supply system	TT
	TN-S
Mode of protection	N-PE
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PBT
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, one-piece
Number of positions	1
Surge protection fault message	none

### Additional descriptions

Note	100 % lightning impulse sparkover voltage (1.2/50) $\mu\text{s} \leq 4.0 \text{ kV}$
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### Protective circuit

Nominal voltage $U_N$	230/400 V AC (TN - only N-PE)
	230/400 V AC (TT - only N-PE)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$	260 V AC
Rated load current $I_L$	80 A
Residual current $I_{PE}$	$\leq 0.1 \text{ mA}$
Standby power consumption $P_C$	$\leq 26 \text{ mVA}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	100 kA
Impulse discharge current (10/350) $\mu\text{s}$ , charge	50 As
Impulse discharge current (10/350) $\mu\text{s}$ , specific energy	2.5 MJ/ $\Omega$
Impulse discharge current (10/350) $\mu\text{s}$ , peak value $I_{imp}$	100 kA
Follow current interrupt rating $I_{fi}$	100 A (260 V AC)
Voltage protection level $U_p$	$\leq 5.5 \text{ kV}$
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu\text{s}$	$\leq 5.5 \text{ kV}$
TOV behavior at $U_T$	1200 V AC (200 ms / withstand mode)
Response time $t_A$	$\leq 100 \text{ ns}$

### Connection data

Connection method	Screw connection
Screw thread	M6
Tightening torque	8 Nm
Stripping length	14.5 mm
Conductor cross section flexible	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section solid	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Conductor cross section AWG	6 ... 1

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## Technical data

### Standards and Regulations

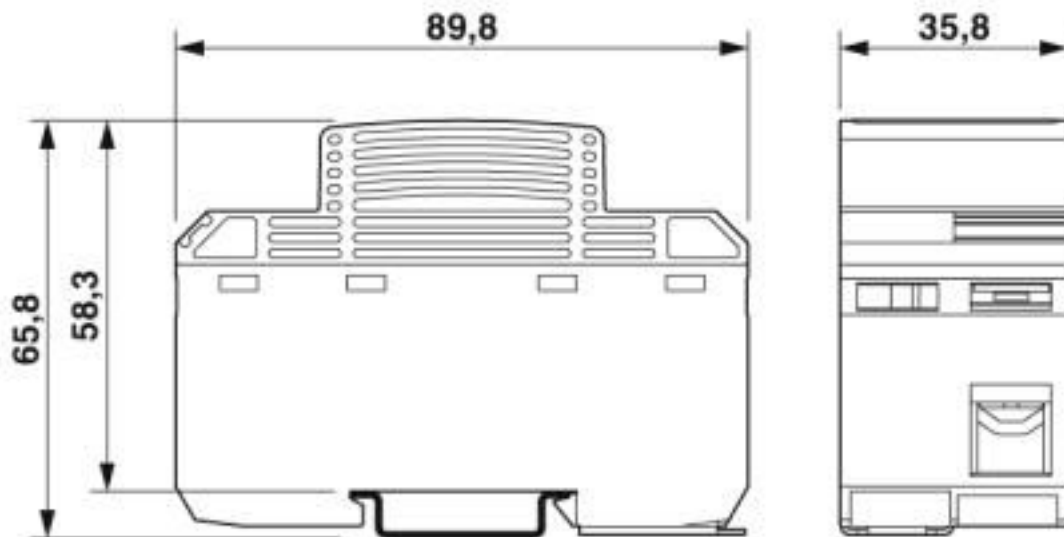
Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

### Environmental Product Compliance

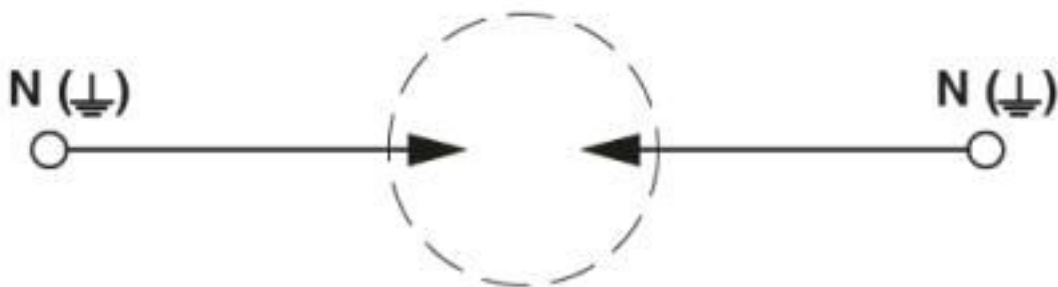
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Dimensional drawing



Circuit diagram



## Classifications

eCl@ss

eCl@ss 10.0.1	27130802
eCl@ss 4.0	27130800

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## Classifications

### eCl@ss

eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130802
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

### ETIM

ETIM 2.0	EC000381
ETIM 3.0	EC000381
ETIM 4.0	EC000381
ETIM 5.0	EC000381
ETIM 6.0	EC000381
ETIM 7.0	EC000381

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

## Combination type 1/2 protective device - FLT 100-260 - 2838160

### Approvals

EAC



RU C-  
DE.\*09.B.00169

### Accessories

#### Accessories

#### Bridge

Wiring bridge - MPB 18/1-57 - 2809238



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.

Wiring bridge - MPB 18/1-12 - 2748593



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.

Wiring bridge - MPB 18/1- 9 - 2748580



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.

Wiring bridge - MPB 18/1- 8 - 2748577



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.

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### Accessories

Wiring bridge - MPB 18/1- 6 - 2748564



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.

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Wiring bridge - MPB 18/1- 4 - 2809225



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.

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Wiring bridge - MPB 18/1- 3 - 2809212



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 3-pos.

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Wiring bridge - MPB 18/1- 2 - 2809209



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.

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### Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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### End block

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### Accessories

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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### Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, horizontal: Grounding symbol, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, horizontal: L1, L2, L3, N, GND, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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