

Combination type 1/2 protective device - FLT 60-400 - 2800107

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Type 1 / Class I / B arrester (lightning current arrester) with arc chopping 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	
GTIN	4046356479936

Technical data

Dimensions

Height	90 mm
Width	35.5 mm
Depth	65.5 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

Combination type 1/2 protective device - FLT 60-400 - 2800107

Technical data

General

EN type	T1
IEC power supply system	TN-S
	TN-C
	TT
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6
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

Protective circuit

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	400 V AC
Rated load current I_L	80 A
Residual current I_{PE}	< 0.1 mA
Standby power consumption P_C	≤ 40 mVA
Nominal discharge current I_n (8/20) μ s	60 kA
Impulse discharge current (10/350) μ s, charge	30 As
Impulse discharge current (10/350) μ s, specific energy	900 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	60 kA
Follow current interrupt rating I_{fi}	2.5 kA
Short-circuit current rating I_{SCCR}	2.5 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)

Connection data

Connection method	Screw connection
Screw thread	M6
Tightening torque	8 Nm
Stripping length	17 mm

Combination type 1/2 protective device - FLT 60-400 - 2800107

Technical data

Connection data

Conductor cross section flexible	16 mm ² ... 35 mm ²
Conductor cross section solid	10 mm ² ... 50 mm ²
Conductor cross section AWG	6 ... 1

Standards and Regulations

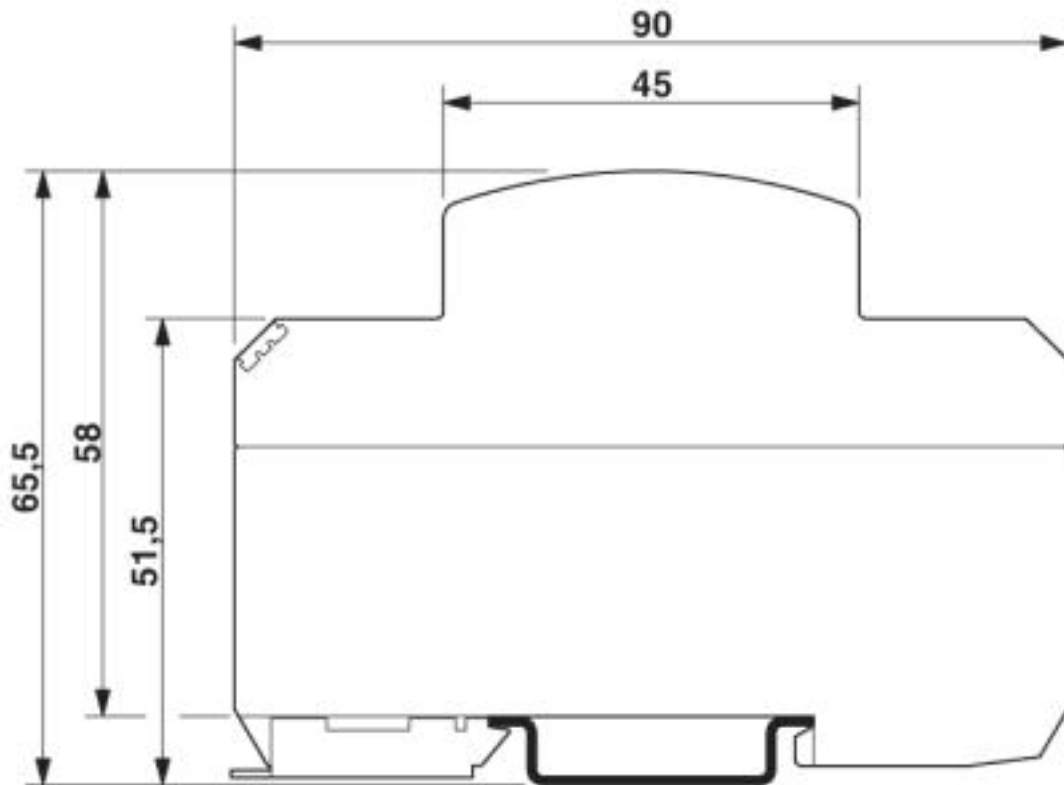
Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

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



Combination type 1/2 protective device - FLT 60-400 - 2800107

Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130802
eCl@ss 4.0	27130800
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

Approvals


EAC

Combination type 1/2 protective device - FLT 60-400 - 2800107

Approvals

Ex Approvals

Approval details

EAC		RU C- DE.A*30.B01561
-----	---	-------------------------

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.

Combination type 1/2 protective device - FLT 60-400 - 2800107

Accessories

Wiring bridge - MPB 18/1- 6 - 2748564



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

Wiring bridge - MPB 18/1- 4 - 2809225



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

Wiring bridge - MPB 18/1- 3 - 2809212



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

Wiring bridge - MPB 18/1- 2 - 2809209



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

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

End block

Combination type 1/2 protective device - FLT 60-400 - 2800107

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

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

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

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