

FLT 35 CTRL-1.5 - Type 1+2 combined lightning current and surge arrester

2816894
<https://www.phoenixcontact.com/in/products/2816894>

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Type 1 / Class I / B arrester (lightning current arrester) with encapsulated arc chopping spark gap and ignition electronics, 1-channel. Protection level: 1.5 kV. Housing width: 17.5 mm (1 Div.)

Commercial data

Item number	2816894
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL1
Product key	CL1122
Catalog page	Page 19 (TT-2007)
GTIN	4017918606220
Weight per piece (including packing)	189.38 g
Weight per piece (excluding packing)	188.6 g
Customs tariff number	85363030
Country of origin	IN

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Technical data

Notes

Trade restriction	
CE note	The products are offered exclusively for export outside the EU and the European Economic Area.

Product properties

Product type	Combination type
IEC test classification	I
	T1
EN type	T1
Type	DIN rail module, one-piece
Surge protection fault message	none

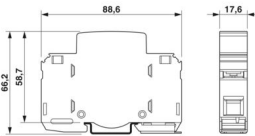
Electrical properties

Nominal frequency f_N	50 Hz
	60 Hz
Nominal voltage U_N	230 V AC

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque, min	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, rigid min.	0.5 mm ²
Conductor cross section, rigid max.	35 mm ²

Dimensions

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

Material specifications

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Flammability rating according to UL 94	V0
Housing material	PA

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	1L-N/PE
Nominal frequency f_N	50 Hz
	60 Hz
Maximum continuous voltage U_C	440 V AC
Maximum continuous operating voltage U_C (L-N)	440 V AC
Maximum continuous operating voltage U_C (L-PEN)	440 V AC
Residual current I_{PE}	≤ 0.5 mA
Operating effective current I_C at U_N	≤ 0.5 mA
Nominal discharge current I_n (8/20) μ s	35 kA
Nominal discharge current I_n (8/20) μ s (L-N)	35 kA
Nominal discharge current I_n (8/20) μ s (L-PEN)	35 kA
Impulse discharge current (10/350) μ s, charge	17.5 As
Impulse discharge current (10/350) μ s, specific energy	305 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	35 kA
Follow current quenching capacity I_{fi} (L-N)	3 kA (260 V)
Follow current quenching capacity I_{fi} (L-PEN)	3 kA (260 V)
Voltage protection level U_p	≤ 1.5 kV
Voltage protection level U_p (L-N)	≤ 1.5 kV
Voltage protection level U_p (L-PEN)	≤ 1.5 kV
Response time t_A	≤ 100 ns
Response time t_A (L-N)	≤ 100 ns
Response time t_A (L-PEN)	≤ 100 ns
Max. backup fuse with branch wiring	125 A (gL)

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Air clearances and creepage distances

Standards/regulations	IEC 60664-1 / VDE 0110-1
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Standards

Standards/regulations	IEC 61643-1
	E DIN VDE 0675-6
	E DIN VDE 0675-6/A1
	E DIN VDE 0675-6/A2
	IEC 61312-1
Standards/specifications	IEC 61643-1
Note	1998-02
Standards/specifications	E DIN VDE 0675-6
Note	1989-11
Standards/specifications	E DIN VDE 0675-6/A1
Note	1996-03
Standards/specifications	E DIN VDE 0675-6/A2
Note	1996-10
Standards/specifications	IEC 61312-1
Note	1995-02

Mounting

Mounting type	DIN rail: 35 mm
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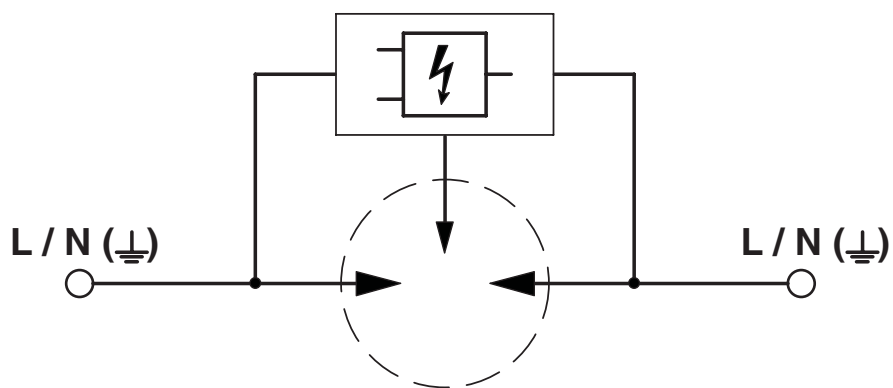
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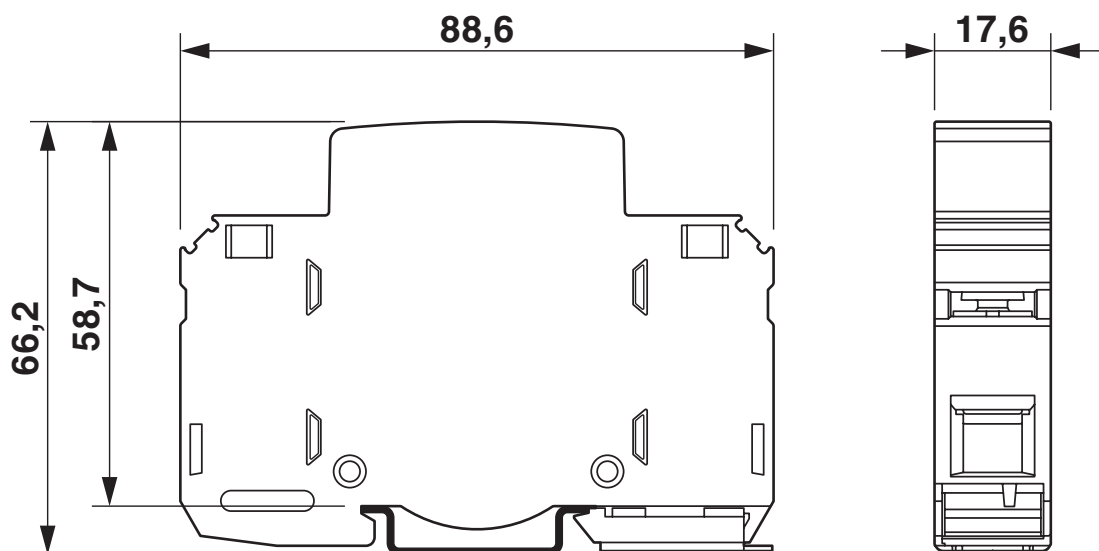
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Drawings

Circuit diagram



Dimensional drawing



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Approvals

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EAC

Approval ID: RU C-DE.*09.B.00169

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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

CLIPFIX 35 - End bracket

3022218

<https://www.phoenixcontact.com/in/products/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

B-STIFT - Marker pen

1051993

<https://www.phoenixcontact.com/in/products/1051993>



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

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ZBN 18,LGS:ERDE - Marker for terminal blocks

2749589

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

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

2749576

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

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ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

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

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