

## FLT-PLUS CTRL-1.5/I

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Order No.: 2818931


The illustration shows version FLT-PLUS CTRL-0,9



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Type 1 / Class I (lightning current arrester) with arc chopping spark gap and ignition electronics, quenching plates for high mains follow-through current quenching capacity, 1-channel. Protection level: 1.5 kV. Housing width: 35 mm (2 Div.)

### Commercial data

GTIN (EAN)	 4 017918 163235
sales group	J013
Pack	1 pcs.
Customs tariff	85363030
Catalog page information	Page 17 (TT-2007)

### Product notes

WEEE/RoHS-compliant since:  
06/28/2006



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### Technical data

#### Standards

Housing material	PBT/PA-F
Inflammability class acc. to UL 94	V0

Spark gap insulation	PA 6.6 GF
	POM
Color	black
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10
	DIN VDE 0675-6
	IEC 61643-1
	NF C61-740
Surge voltage category	III
Pollution degree	2
Degree of protection	IP20
Mounting type	DIN rail: 35 mm
Design	Rail-mountable module, one-piece
Number of positions	1
Ambient temperature (operation)	-40 °C ... 85 °C
Permissible humidity (operation)	≤ 95 %
Message: Surge protection fault	Optical
Direction of action	1L-N/PE
Width	35.50 mm
Height	80.50 mm
Length	149.80 mm
Pitch unit	2 Div.

#### Protective circuit

IEC category	I
	T1
EN type	T1
Nominal voltage $U_N$	400 V AC
Arrester rated voltage $U_C$	440 V AC
Arrester rated voltage $U_C$ (L-N)	440 V AC
Arrester rated voltage $U_C$ (L-PEN)	440 V AC
Nominal frequency $f_N$	50 Hz
	60 Hz
Ground conductor current $I_{PE}$	≤ 3 mA
Operating effective current $I_C$ at $U_N$	≤ 3 mA
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s	50 kA

Nominal discharge surge current $I_n$ (8/20) $\mu$ s	50 kA
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (L-N)	50 kA
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (L-PEN)	50 kA
Lightning test current (10/350) $\mu$ s, charge	25 As
Lightning test current (10/350) $\mu$ s, specific energy	625.00 kJ/ $\Omega$
Lightning test current (10/350) $\mu$ s, peak value $I_{imp}$	50 kA
100% lightning impulse sparkover voltage (1.2/50) $\mu$ s	$\leq 1.5$ kV
Protection level $U_p$	$\leq 1.5$ kV
Protection level $U_p$ (L-N)	$\leq 1.5$ kV
Protection level $U_p$ (L-PEN)	$\leq 1.5$ kV
Response time	$\leq 100$ ns
Response time (L-N)	$\leq 100$ ns
	$\leq 100$ ns
Max. required backup fuse with branch wiring	250 A (gL)
Short-circuit resistance $I_p$ with max. backup fuse (effective)	50 kA (At 400 V AC)
Short-circuit current self-quenching	50 kA (400 V)
Follow current quenching capacity $I_f$ (L-N)	50 kA (At 400 V AC)
Follow current quenching capacity $I_f$ (L-PE)	50 kA (At 400 V AC)

**Connection, protective circuit**

Type of connection	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross section stranded min.	16 mm <sup>2</sup>
Conductor cross section stranded max.	35 mm <sup>2</sup>
Conductor cross section solid min.	10 mm <sup>2</sup>
Conductor cross section solid max.	50 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	6
Conductor cross section AWG/kcmil max	1

#### Environmental conditions

Standards/regulations	E DIN VDE 0675-6/A1
	UL 1449
	IEEE C62.1
	IEEE C62.41
	IEC 61643-1
	prEN 61643-1

#### Certificates / Approvals



Certification GOST

#### Accessories

Item	Designation	Description
<b>Assembly</b>		
1201442	E/UK	End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail

#### Bridges

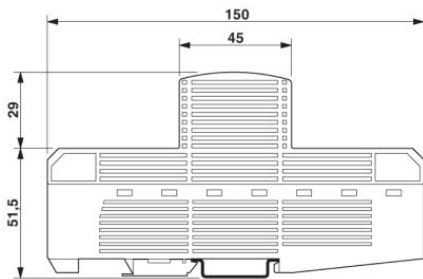
2809209	MPB 18/1- 2	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.
2809212	MPB 18/1- 3	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 3-pos.
2809225	MPB 18/1- 4	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.
2748564	MPB 18/1- 6	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.
2748577	MPB 18/1- 8	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.
2748580	MPB 18/1- 9	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.
2748593	MPB 18/1-12	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.
2809238	MPB 18/1-57	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.

### Marking

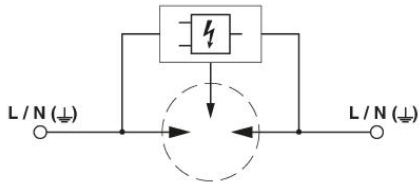
1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
2749589	ZBN 18,LGS:ERDE	Marking labels, printed horizontally, strips with 5 labels, GND (grounding symbol), color: White
2749576	ZBN 18,LGS:L1-N,ERDE	Marker labels, printed horizontally, strips with 5 labels, L1, L2, L3, N, GND, color: white
2809128	ZBN 18:UNBEDRUCKT	Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White

### Diagrams/Drawings

#### Dimensioned drawing



#### Circuit diagram



**Address**

PHOENIX CONTACT Deutschland GmbH  
Flachsmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 12000  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.de>



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