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Type 1 / Class I (lightning current arrester) with arc chopping spark gap and ignition electronics with control lamp, quenching plates for high mains follow-through current quenching capacity, 1-channel. Protection level: 3 kV. Housing width: 35 mm (2 Div.)

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

Why buy this product

- High discharge capacity
- Good follow current quenching capacity with higher rated voltage
- 1-channel
- Direct parallel connection with type 2 arresters supported
- Triggered

RoHS

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	580.000 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	150 mm
Width	35.5 mm
Depth	80.5 mm
Horizontal pitch	2 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 85 °C



Technical data

Ambient conditions

Permissible humidity (operation)	≤ 95 %	
General		
IEC power supply system	TT	
	TN-C	
	TN-S	
	IT	
Housing material	PA-GF	
Flammability rating according to UL 94	VO	
Color	black	
Standards for cearances and creepage distances	EN 60664-1	
	EN 61643-11	
Mounting type	DIN rail: 35 mm	
Туре	DIN rail module, one-piece	
Number of positions	1	
Surge protection fault message	optical	
Direction of action	1L-N/PE	

Protective circuit

IEC test classification	1
	T1
EN type	T1
Maximum continuous operating 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
U _T (TOV-proof)	580 V AC (5 sec.)
U _T (TOV-safe)	1640 V AC (200 ms)
Nominal frequency f _N	50 Hz
	60 Hz
Residual current I _{PE}	≤ 3 mA
Standby power consumption P _C	≤ 1.32 VA
Max. discharge current Ι _{max} (8/20) μs	50 kA
Impulse discharge current (10/350) µs, charge	25 As
Impulse discharge current (10/350) µs, specific energy	625 kJ/Ω
Impulse discharge current (10/350) $\mu s,$ peak value I_{imp}	50 kA
Nominal discharge current I _n (8/20) µs	50 kA
Nominal discharge current I _n (8/20) µs (L-N)	50 kA
Nominal discharge current In (8/20) µs (L-PEN)	50 kA



Technical data

Protective circuit

Front of wave sparkover voltage at 6 kV (1.2/50) µs	\leq 3 kV
Voltage protection level U _p	\leq 3 kV
Voltage protection level U _p (L-N)	\leq 3 kV
Voltage protection level U _p (L-PEN)	\leq 3 kV
Response time t _A	≤ 100 ns
Response time t _A (L-N)	≤ 100 ns
Response time t _A (L-PE)	≤ 100 ns
Max. backup fuse with branch wiring	500 A (NH-gL)
Short-circuit withstand capability I_P with max. backup fuse (r.m.s.)	25 kA (440 V AC)
	50 kA (350 V AC)
Follow current interrupt rating I_{fi}	25 kA (440 V AC)
	50 kA (350 V AC)

Connection, protective circuit

Connection method	Screw connection
Connection method IN	Biconnect screw terminal block
Connection method OUT	Biconnect screw terminal block
Connection technology	Biconnect terminal block
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross section flexible min.	16 mm ²
Conductor cross section flexible max.	35 mm ²
Conductor cross section solid min.	10 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section AWG min.	6
Conductor cross section AWG max.	1

Standards and Regulations

Standards/regulations	IEC 61643-1 2005
	DIN EN 61643-11 2002
	DIN EN 61643-11/A11 2007

Environmental Product Compliance

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

Drawings



Circuit diagram



Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201
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

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Accessories

Accessories

Bridge



Accessories

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.

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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Accessories

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

End block

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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Accessories

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

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

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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