

Lightning arrester type 1 - FLT-PLUS - 2800116

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Type 1/Class I (lightning arrester) with arc chopping spark gap, quenching plates for high follow current quenching capacity, 1-channel. Housing width: 35 mm (2 Div.)



Why buy this product

- High discharge capacity
- Single-channel



Key commercial data

Packing unit	1 pc
GTIN	 4 046356 480017
Weight per Piece (excluding packing)	519.1 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	150 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 power supply system	TT
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Technical data

General

	TN-C
	TN-S
Housing material	PA 6.6
Inflammability class according to UL 94	V-0
Color	black
Standards for clearances and creepage distances	EN 60664-1
	EN61643-11
Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece
Number of positions	1
Surge protection fault message	None
Direction of action	1L-N/PE

Protective circuit

IEC test classification	I
	T1
EN type	T1
Maximum continuous operating voltage U_C (L-PEN)	440 V AC
U_T (TOV-proof)	440 V (5 sec.)
TOV behavior at U_T	<p></p>
Nominal frequency f_N	50 Hz (60 Hz)
Rated load current I_L	80 A
Residual current I_{PE}	≤ 0.1 mA
Standby power consumption P_C	≤ 44 mVA
Nominal discharge current I_n (8/20) μ s (L-PEN)	50 kA
Impulse discharge current (10/350) μ s charge	25 As
Impulse discharge current (10/350) μ s, specific energy	625 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	50 kA
Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 5 kV
Voltage protection level U_p (L-PEN)	≤ 5 kV
Response time (L-PEN)	≤ 100 ns
Max. backup fuse with branch wiring	500 A AC (gG)
Max. backup fuse with V-type through wiring	80 A AC (gG)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA (440 V AC)
	50 kA (350 V AC)
Follow current quenching capacity I_{fi} (L-PEN)	25 kA

Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block

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Connection, protective circuit

Connection method	Biconnect terminal block
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross section stranded min.	16 mm ²
Conductor cross section stranded max.	35 mm ²
Conductor cross section solid min.	10 mm ²
Conductor cross section solid max.	50 mm ²
AWG conductor cross section	6 ... 1

Standards and Regulations

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

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

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

Approvals

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Approvals

Approvals


KEMA-KEUR / IECCE CB Scheme / EAC

Ex Approvals

Approvals submitted

Approval details

KEMA-KEUR 

IECEE CB Scheme 

EAC

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.

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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.

Wiring bridge - MPB 18/1- 4 - 2809225



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

- MPB 18/1- 3 - 2809212

Wiring bridge - MPB 18/1- 2 - 2809209



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

Device marking

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Accessories

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 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

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: 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: 18 x 5 mm

Marker pen

Marker pen - B-STIFT - 1051993

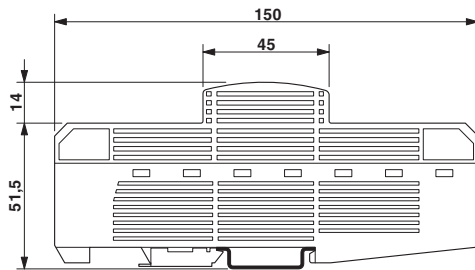


Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Drawings

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Dimensioned drawing



Circuit diagram

