Lightning arrester type 1 - FLT 50 N/PE - 2800108

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Lightning current arrester with encapsulated N-PE spark gap, 1-channel. Housing width: 17.5 mm (1 Div.)

Key commercial data

Packing unit	1 pc
GTIN	4 046356 479943
Weight per Piece (excluding packing)	156.8 g
Custom tariff number	85363010
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Height	90 mm
Width	17.6 mm
Depth	65.7 mm
Horizontal pitch	1 Div.

Ambient conditions

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

General

IEC power supply system	TT
	TN-S
Housing material	PA-GF
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	EN 60664-1

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Technical data

General

	EN 61643-11
Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece
Number of positions	1
Surge protection fault message	None
Direction of action	N-PE

Protective circuit

IEC test classification	I
	T1
EN type	T1
Nominal voltage U_N	230 V AC (400 V AC)
Maximum continuous operating voltage U_C	260 V AC
Maximum continuous operating voltage U_C (N-PE)	260 V AC
U_T (TOV-proof)	1200 V AC (200 ms)
Nominal frequency f_N	50 Hz
	60 Hz
Residual current I_{PE}	≤ 0.1 mA
Standby power consumption P_C	≤ 26 mVA
Max. discharge current I_{max} (8/20) µs	50 kA
Max. discharge current I_{max} (8/20) µs maximum (N-PE)	50 kA
Nominal discharge current I_n (8/20) µs	50 kA
Nominal discharge current I_n (8/20) µs (N-PE)	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)#µs, peak value I_{imp}	50 kA
Front of wave sparkover voltage at 6 kV (1.2/50) µs	≤ 5 kV
Front of wave sparkover voltage at 6 kV (1.2/50) µs (N-PE)	≤ 5 kV
Voltage protection level U_p (N-PE)	≤ 5 kV
Response time	≤ 100 ns
Response time (N-PE)	≤ 100 ns
Follow current quenching capacity If (N-PE)	500 A

Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	14.5 mm

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Connection, protective circuit

Conductor cross section stranded min.	0.5 mm²
Conductor cross section stranded max.	25 mm²
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	35 mm²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	2

Standards and Regulations

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

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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KEMA-KEUR / IECEE CB Scheme / EAC

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Approvals

Ex Approvals

Approvals submitted

Approval details

KEMA-KEUR

IECEE CB Scheme

EAC

Accessories

Accessories

Device marking

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

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Accessories

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

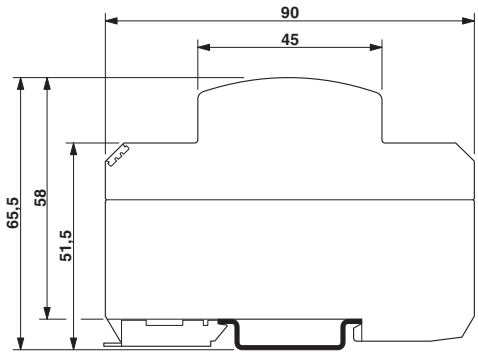
Marker pen

Marker pen - B-STIFT - 1051993

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

Drawings

Dimensioned drawing



Circuit diagram