

## FLT 100 N/PE CTRL-1.5


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Order No.: 2856388



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Lightning current arrester with encapsulated N-PE spark gap and ignition electronics, 1-channel. Protection level: 1.5 kV. Housing width: 35 mm (2 Div.)

Commercial data	
GTIN (EAN)	 4 017918 890858
sales group	J013
Pack	1 pcs.
Customs tariff	85363030
Catalog page information	Page 19 (TT-2009)

#### Product notes

WEEE/RoHS-compliant since:  
05/08/2006



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Technical data	
<b>Standards</b>	
Housing material	PBT
Inflammability class acc. to UL 94	V0
Color	black

Standards for air and creepage distances	EN 60664-1
	EN61643-11
Degree of protection	IP20
Mounting type	DIN rail: 35 mm
Design	Rail-mountable module, one-piece
Ambient temperature (operation)	-40 °C ... 85 °C
Permissible humidity (operation)	≤ 95 %
Direction of action	N-PE
Width	35.80 mm
Height	65.70 mm
Length	90.00 mm
Pitch unit	2 Div.

#### Protective circuit

IEC category	I
	T1
EN type	T1
Nominal voltage $U_N$	230 V AC (400 V AC / TN, TT)
Arrester rated voltage $U_C$	260 V AC
Arrester rated voltage $U_C$ (N-PE)	260 V AC
$U_T$ (TOV-safe)	1200 V AC (200 ms)
Nominal frequency $f_N$	50 Hz
	60 Hz
Ground conductor current $I_{PE}$	≤ 0.1 mA
Standby power consumption $P_C$	≤ 26 mVA
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s	100 kA
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s maximum (N-PE)	100 kA
Nominal discharge surge current $I_n$ (8/20) $\mu$ s	100 kA
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (N-PE)	100 kA
Lightning test current (10/350) $\mu$ s, charge	50 As
Lightning test current (10/350) $\mu$ s, specific energy	2.50 MJ/ $\Omega$
Lightning test current (10/350) $\mu$ s, peak value $I_{imp}$	100 kA
Impulse operate voltage at 6 kV (1.2/50) $\mu$ s	≤ 1.5 kV
Impulse operate voltage at 6 kV (1.2/50) $\mu$ s (N-PE)	≤ 1.5 kV

Protection level $U_p$	$\leq 1.5$ kV
Protection level UP (N-PE)	$\leq 1.5$ kV
Response time	$\leq 100$ ns
Response time (N-PE)	$\leq 100$ ns
Follow current quenching capacity $I_f$	100 A
Follow current quenching capacity $I_f$ (N-PE)	100 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	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

#### Standards

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

#### Certificates / Approvals



Certification

GOST

**Accessories**

Item	Designation	Description
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**Assembly**

3022218	CLIPFIX 35	Snap-on end bracket, for 35 mm NS 35/7.5 or NS 35/15 DIN rail, can be fitted with Zack strip ZB 8 and ZB 8/27, terminal strip marker KLM 2 and KLM, width: 9.5 mm, color: gray
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**Bridges**

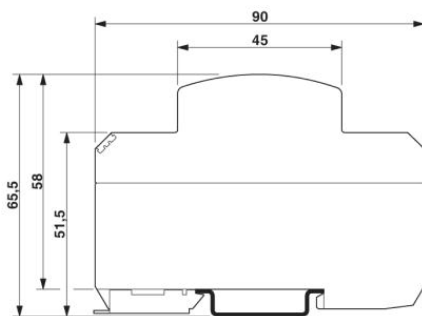
2858470	MPB 18/1- 8 BU	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos., color: Blue
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**Marking**

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
0800763	ZBN 18:SO/CMS	Marker labels, 5-section, special printing, labeled according to customer requirements (Please specify the required marking with order), for terminal width: 17.5 mm, 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

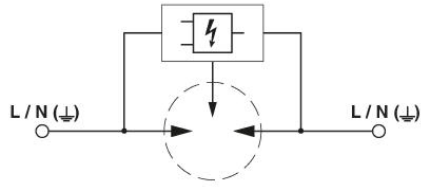
**Diagrams/Drawings**

Dimensioned drawing



Circuit diagram

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