


FLT-CP-N/PE-350

Order No.: 2859754

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Encapsulated pluggable Class I arresters as N/PE spark gap with an ignition mechanism for triggering the sparkover voltage.



Commercial data	
GTIN (EAN)	 4 017918 956479
sales group	J000
Pack	1 pcs.
Customs tariff	85369010
Catalog page information	Page 16 (TT-2009)

Product notes

WEEE/RoHS-compliant since:
05/03/2006



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Technical data

Standards

Housing material	PBT
Inflammability class acc. to UL 94	V0
Color	gray

Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10
	IEC 61643-11
Surge voltage category	III
Pollution degree	2
Degree of protection	IP20
Mounting type	DIN rail: 35 mm
Design	DIN rail module, two-section, divisible
Number of positions	1
Ambient temperature (operation)	-40 °C ... 80 °C
Direction of action	N-PE
Width	35.80 mm
Height	70.00 mm
Length	95.80 mm
Pitch unit	2 Div.

Protective circuit

IEC category	I
	T1
EN type	T1
Lightning protection class	I /100kA
Nominal voltage U_N	240 V AC (N-PE)
Arrester rated voltage U_C (N-PE)	350 V AC
U_T (TOV-proof)	1200 V (200 ms)
Nominal frequency f_N	50 Hz (60 Hz)
Ground conductor current I_{PE}	$\leq 5 \mu A$ (ground conductor current I_{PE})
Standby power consumption P_C	≤ 0.35 mW
Nominal discharge surge current I_n (8/20) μs (N-PE)	100 kA
Lightning test current (10/350) μs , charge	50 As
Lightning test current (10/350) μs , specific energy	2.50 MJ/ Ω
Lightning test current (10/350) μs , peak value I_{imp}	100 kA
Impulse operate voltage at 6 kV (1.2/50) μs (N-PE)	≤ 1.5 kV
Protection level UP (N-PE)	≤ 1.5 kV

Residual voltage (N-PE)	≤ 1.5 kV (at I _n)
	≤ 1 kV (at 10 kA)
	≤ 0.9 kV (at 5 kA)
	≤ 0.8 kV (at 3 kA)
Clamping voltage SVR (N-PE)	≤ 1.5 kV
Response time (N-PE)	≤ 100 ns
Short-circuit resistance I _p with max. backup fuse (effective)	25 kA
Follow current quenching capacity I _f (N-PE)	100 A

Connection, protective circuit

Type of connection	Screw terminal blocks
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	18 mm
Conductor cross section stranded min.	2.5 mm ²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	2.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section AWG/kcmil min.	13
Conductor cross section AWG/kcmil max	2

Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	PDT contact
Type of connection	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	28

Conductor cross section AWG/kcmil max	16
Maximum operating voltage U_{max} AC	250 V AC
Maximum operating voltage U_{max} DC	125 V DC
Max. operating current I_{max}	1 A AC (inductive)
	1 A AC (ohmic)
	30 mA DC (inductive)
	200 mA DC (ohmic)

Standards

Standards/regulations	IEC 61643-1 2005
	EN 61643-11 2002
	EN 61643-11/A11 2007
	UL 1449 ed. 2

Certificates / Approvals



Certification

CB, CCA, CUL, GOST, KEMA, UL

Accessories

Item	Designation	Description
General		
2859686	FLT-CP-N/PE-350-ST	Type 1 / Class I / B arrester (lightning arrester) replacement plug for path N-PE, can be combined with FLASHTRAB compact series of products.

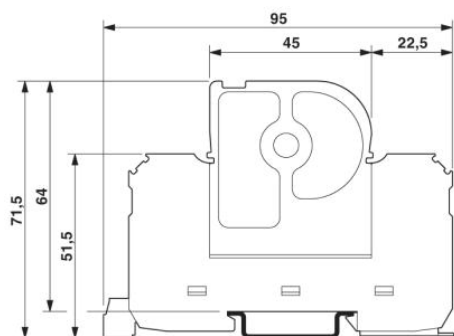
Marking

1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
0803595	ZBFM 5/WH:UNBEDRUCKT	Zack marker sheet, flat, unprinted: 120-section, 10 strips à 12 markers, sufficient for 120 terminal blocks, for all terminal blocks, pitch 5.2 mm, labeling with M-PEN or CMS system, color: white
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

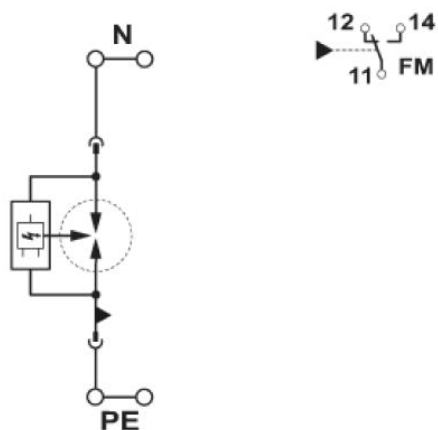
0800763	ZBN 18:SO/CMS	Marker labels, 5-section, special printing, labeled according to customer requirements (Please specify the required marking with order), for terminal width: 17.5 mm, color: White
2809128	ZBN 18:UNBEDRUCKT	Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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