

Surge protection plug - CT 10-18FSR+F/PE-24 - 2807939

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LSA-PLUS plug (COMTRAB CT 10) with surge voltage coarse and fine protection and decoupling resistance for 18 signal lines - GND and coarse protection GND - PE. Nominal voltage: 24 V DC/AC. Design: 10 double wires

Product Features

- ✓ For use with CT-TERMIBLOCK and with LSA-PLUS and LSA-PROFIL disconnect and control strips
- ✓ Multi-position, plug-in modular design
- ✓ Applications include systems with higher signal voltages
- ✓ Protection modules must be inserted in the correct direction
- ✓ Combined protective circuits



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	134.5 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	22 mm
Width	111 mm
Depth	68.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 75 °C
Degree of protection	IP20

General

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Technical data

General

Housing material	PBT
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
Type	LSA-PLUS module
Direction of action	Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	40 V DC
	28 V AC
Maximum continuous voltage U_C (wire-GND)	40 V DC
	28 V AC
Nominal current I_N	140 mA (25 °C)
Operating effective current I_C at U_C	$\leq 5 \mu A$ (18x)
Residual current I_{PE}	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Core)	5 kA
Nominal discharge current I_n (8/20) μs (Core-Earth)	5 kA
Total surge current (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs	5 kA
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 60 V$ (a, b)
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 650 V$
Residual voltage at I_n , (conductor-conductor)	$\leq 85 V$ (a-b)
Residual voltage at I_n , (conductor-GND)	$\leq 85 V$
Response time t_A (Core-Core)	$\leq 1 ns$ (a-b)
Response time t_A (Core-Earth)	$\leq 100 ns$ (a, b)
Input attenuation aE, sym.	1.8 dB (Typ. up to 1 MHz / 50 Ω)
	0.6 dB (Typ. up to 400 kHz / 150 Ω)
	0.2 dB (Typ. up to 60 kHz / 600 Ω)
Cut-off frequency f_g (3 dB), sym. in 50 Ohm system	6 MHz (typ.)
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	2.5 MHz (typ.)

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Technical data

Protective circuit

Cut-off frequency f_g (3 dB), sym. in 600 Ohm system	750 kHz (typ.)
Capacity (Core-Earth)	1.1 nF (1 MHz a-b)
Resistance in series	22 Ω \pm 10 % (a-b)
	22 Ω \pm 10 % (a, b)
Surge protection fault message	None
Max. required back-up fuse	145 mA
Surge current resistance (conductor-ground)	D1 - 2,5 kA
Surge current resistance (GND-Ground)	D1 - 2.5 kA

Connection data

Connection method	can be plugged into COMTRAB-TERMIBLOCK and LSA-PLUS disconnect and switching strips
Connection type IN	COMTRAB plug-in system
Connection type OUT	COMTRAB plug-in system

Standards and Regulations

Standards/regulations	IEC 61643-21
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Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610

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Classifications

UNSPSC

UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

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GOST

Ex Approvals

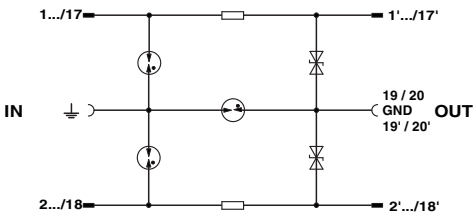
Approvals submitted

Approval details

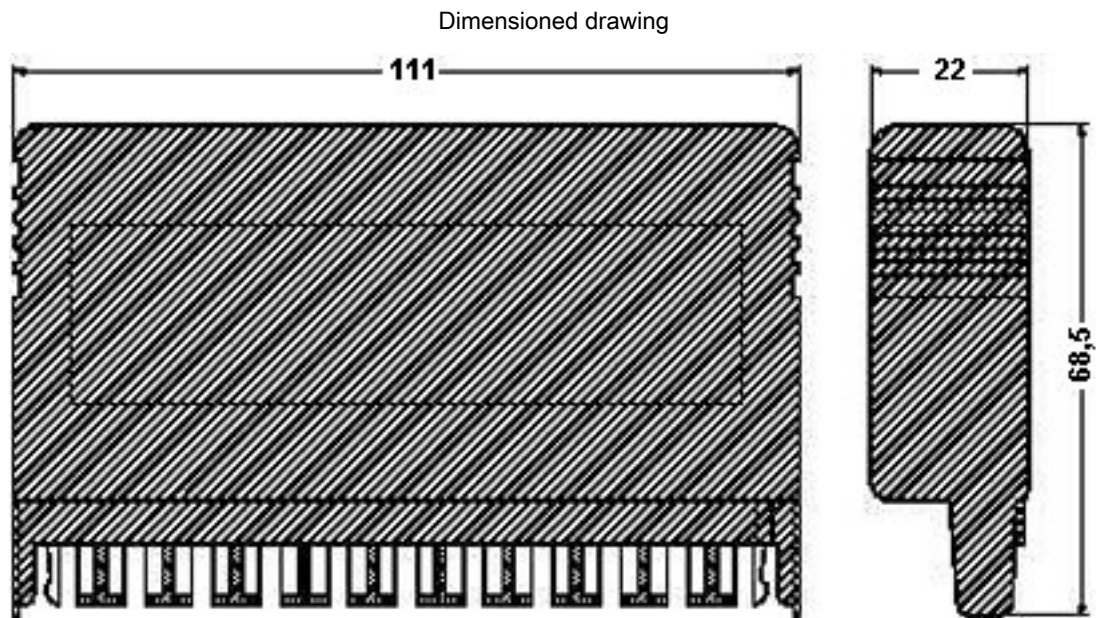
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Drawings

Circuit diagram



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