Surge protection connector - CT 10-18FS+F/PE-24 - 2807926

LSA-PLUS plug (COMTRAB CT 10) with surge voltage coarse and fine protection 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
- Combined protective circuits
- Protection modules must be inserted in the correct direction

Key commercial data

package_quantity	1
GTIN	4017918075408

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

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
Design	LSA-PLUS module
Direction of action	Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground

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Technical data

General

Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00

Protective circuit

IEC test classification	C1
IEC test classification	C2
IEC test classification	C3
IEC test classification	D1
Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	40 V DC
Maximum continuous operating voltage U_C	28 V AC
Maximum continuous voltage U_C (wire-GND)	40 V DC
Maximum continuous voltage U_C (wire-GND)	28 V AC
Nominal current I_N	1.5 A (75°C)
Operating effective current I_C at U_C	5 µA (18x)
Residual current I_{PE}	≤ 1 µA
Nominal discharge current I_n (8/20) µs (Core-Core)	214 A (25 °C)
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	119 A (25 °C)
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 60 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 650 V
Residual voltage at I_n, (conductor-conductor)	≤ 85 V (a-b)
Residual voltage at In, (conductor-GND)	≤ 85 V
Residual voltage with Ian (10/1000)µs (conductor-GND)	≤ 65 V
Response time tA (Core-Core)	≤ 1 ns (a-b)
Response time tA (Core-Earth)	≤ 100 ns (a, b)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	10 MHz (typical)
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	2.5 MHz (typical)
Capacity (Core-Earth)	1.1 nF (1 MHz a-b)
Message: Surge protection fault	None
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	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
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

approvals

GOST /

Approval details

GOST

accessories

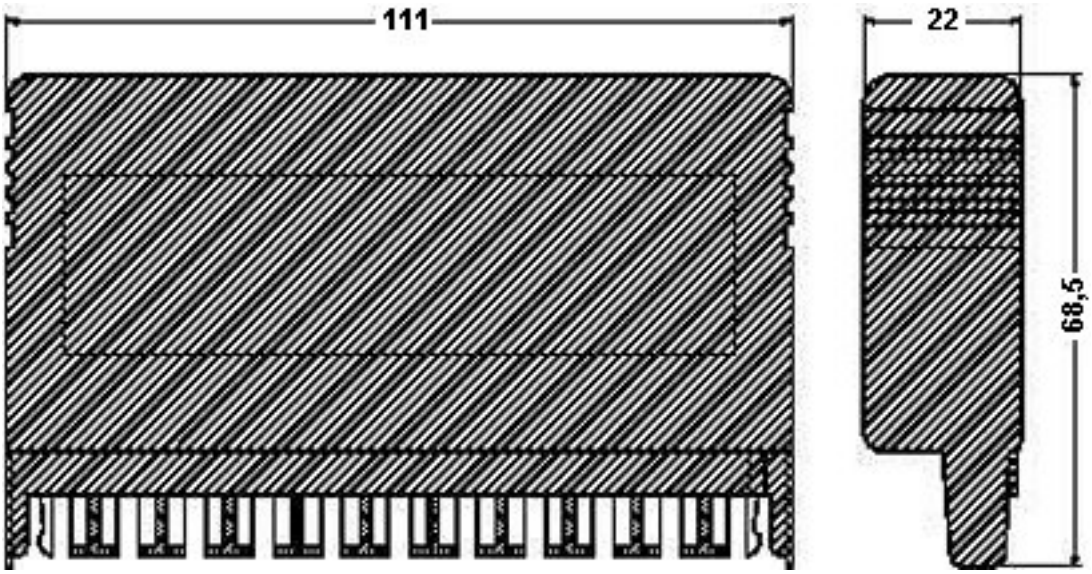
Screw termination block

CT-TERMIBLOCK 10 DA - 0441711

Drawings

Surge protection connector - CT 10-18FS+F/PE-24 - 2807926

Dimensioned drawing



Circuit diagram