

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

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

Your advantages

- ✓ 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

Packing unit	1 pc
GTIN	 4 017918 075408
GTIN	4017918075408

Technical data

Dimensions

Height	22 mm
Width	111 mm
Depth	68.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 75 °C
Altitude	≤ 2000 mm (amsl (above mean sea level))
Degree of protection	IP20

General

Housing material	PBT
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005

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Technical data

General

Standards for clearances 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
	24 V AC
Maximum continuous voltage U_C	40 V DC
	28 V AC
Rated current	1.5 A AC (75 °C)
	350 mA DC (75 °C)
Operating effective current I_C at U_C	$\leq 5 \mu A$ (18x)
Residual current I_{PE}	$\leq 1 \mu A$ (19x)
Nominal discharge current I_n (8/20) μs (line-line)	119 A (per path)
Nominal discharge current I_n (8/20) μs (line-earth)	5 kA (per path)
Nominal discharge current I_n (8/20) μs (signalground-earth)	5 kA (per path)
Pulse discharge current I_{imp} (10/350) μs (line-earth)	2.5 kA
Pulse discharge current I_{imp} (10/350) μs (signalground-earth)	2.5 kA
Total discharge current I_{total} (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs maximum (line-line)	119 A (per path)
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	5 kA (per path)
Nominal pulse current I_{an} (10/1000) μs (line-signalground)	23 A
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ μs (line-signalground) spike	$\leq 70 V$
Output voltage limitation at 1 kV/ μs (line-signalground) static	$\leq 60 V$
Residual voltage at I_n (line-earth)	$\leq 30 V$
Residual voltage at I_n (line-signalground)	$\leq 85 V$
Residual voltage with I_{an} (10/1000) μs (line-signalground)	$\leq 65 V$
Response time t_A (line-signalground)	$\leq 1 ns$
Response time t_A (line-earth)	$\leq 100 ns$
Input attenuation aE, asym.	typ. 0.1 dB ($\leq 2 MHz / 50 \Omega$)
	typ. 0.1 dB ($\leq 200 kHz / 150 \Omega$)
	typ. 0.1 dB ($\leq 80 kHz / 600 \Omega$)
Cut-off frequency f_g (3 dB), asym. (GND) in 50 Ohm system	typ. 10 MHz

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Protective circuit

Cut-off frequency f_g (3 dB), asym. (GND) in 150 Ohm system	typ. 2.5 MHz
Cut-off frequency f_g (3 dB), asym. (GND) in 600 Ohm system	typ. 650 kHz
Capacity (line-signalground)	typ. 1.1 nF (1 MHz)
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA
Impulse durability (line-signalground)	C3 - 23 A
Impulse durability (signalground-earth)	D1 - 2.5 kA

Connection data

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

Standards and Regulations

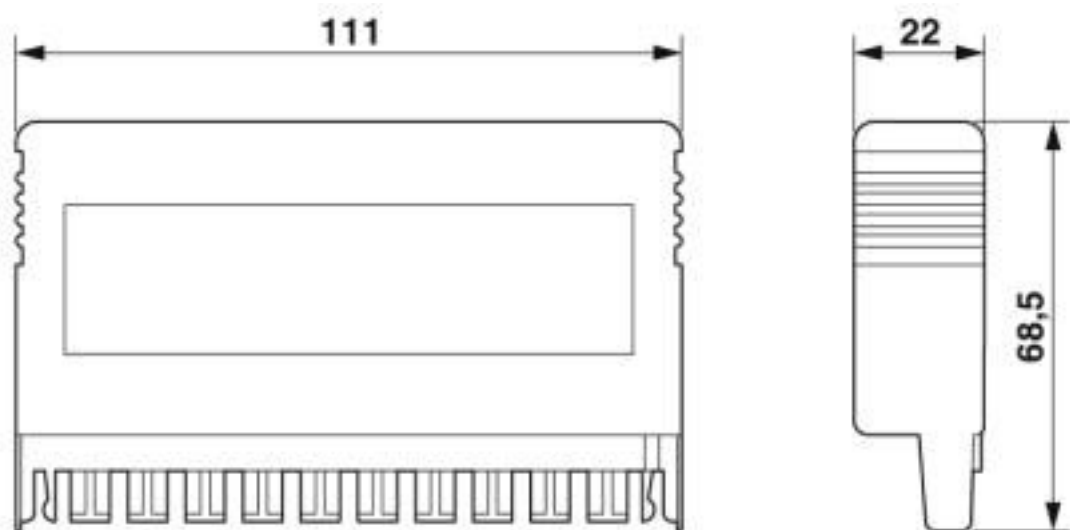
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

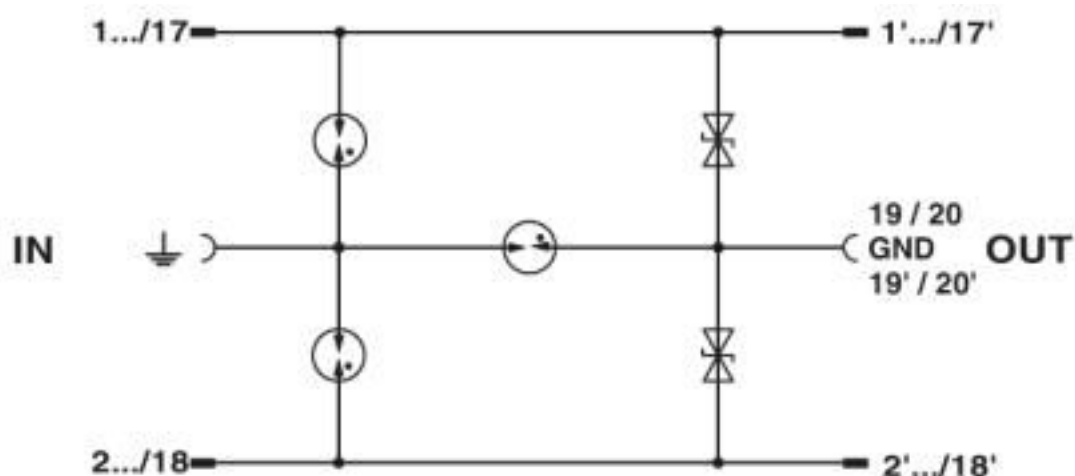
Drawings

Dimensional drawing



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Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620

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Classifications

UNSPSC

UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		RU C- DE.*09.B.00169
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Accessories

Accessories

Screw termination block

Screw termination block - CT-TERMIBLOCK 10 DA - 0441711



Screw termination block with disconnect contacts for accommodating protective plugs CT and CTM. Use in MCR and telecommunications systems. Design: 10 double wires

Necessary add-on products

Disconnect strip - CT 10-TL - 2765356



LSA-PLUS disconnect strip to hold the CTM and CT 10 protection modules. Version: 10 double conductors, dimension A: 124 mm.

Additional products

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Accessories

Mounting clip - CT 10-MB/ 3 - 2765372



Mounting clip, for holding 3 disconnect or ground wire strips. Version: 10 double conductors, dimensions: A 104.5 mm, B 65 mm.

Mounting clip - CT 10-MB/10 - 2765385



Mounting clip, for holding 10 disconnect or ground wire strips. Version: 10 double conductors, dimensions: A 104.5 mm, dimensions B 245.5 mm

Cable feed-through sleeve - CT-KDT - 2765518



Cable bush for assembly troughs, for protection of the lines guided through the laminated frame

Shield connection - SSA 3-6 - 2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

Shield connection - SSA 5-10 - 2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

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