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LSA-PLUS protective plug (COMTRAB CTM) with coarse surge protection for 2 signal wires from analog and digital telecommunications interfaces (up to 44 Mbps). Nominal voltage: 180 V DC

Product Features

- The CTM 10-MAG surge protection magazine can be freely fitted with various protective plugs
- ☑ Can be used in LSA-PLUS disconnect and control strips or CT-TERMIBLOCK
- ☑ Typical installation locations include marshalling distributors
- ☑ Space-saving LSA-PLUS connection technology
- Modular compact protection for high-density networks



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	7.79 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	21 mm
Width	9.5 mm
Depth	53.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C
Degree of protection	IP20

General



Technical data

General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Surge voltage category	11
Pollution degree	2
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
Туре	LSA-PLUS module
Direction of action	Line-Line & Line-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 2.12
Near-end crosstalk attenuation aN between adjacent articles	70 dB (up to 1 MHz 100 Ω system)
	50 dB (up to 10 MHz 100 Ω system)
	30 dB (up to 100 MHz, 100 Ω system)
Transmission speed	44 MBit/s

Protective circuit

IEC test classification	A2
	B1
	B2
	B3
	C1
	C2
	C3
	D1
	D2
VDE requirement class	A2
	B1
	B2
	B3
	C1
	C2
	C3
	D1
	D2
Nominal voltage U _N	180 V DC
Maximum continuous operating voltage U _C	± 180 V DC
Maximum continuous voltage U_{C} (wire-ground)	± 180 V DC

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Technical data

Protective circuit

1.5 A (25 °C)
≤ 2 μA
≤ 2 µA
5 kA
10 kA
2.5 kA
10 kA (in total)
200 A
1 kA
≤ 800 V
≤ 800 V
≤ 70 V
≤ 28 V
≤ 900 V (C2, 10 kV/5 kA, spike)
≤ 70 V (C2, 10 kV/5 kA, static)
≤ 1 kV (C3, 7.5 kV/100 A, spike)
≤ 30 V (C3, 7.5 kV/100 A, static)
≤ 100 ns
0.1 dB (≤ 10 MHz)
0.2 dB (≤ 60 MHz)
0.5 dB (≤ 100 MHz)
> 100 MHz
5 pF (f=1 MHz / V _R = 0 V)
C2 (4 kV / 2 kA)
C3 - 100 A
B2 - 4 kV/100 A
D1 - 1 kA
5 A - 1 s

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
Connection method	LSA-PLUS
Connection, equipotential bonding	

Connection method	Spring contact
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Technical data

Standards and Regulations

Standards/regulations	IEC 61643-21

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

Approvals

Approvals

GOST / UL Listed

Ex Approvals

Approvals submitted



Approvals

Approval details

GOST 📀

UL Listed 🖲

Drawings



Circuit diagram



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