

Surge protection plug - CTM 2X1-180DC-GS - 2838636

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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

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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	II
Pollution degree	2
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
Type	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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Protective circuit

Nominal current I_N	1.5 A (25 °C)
Operating effective current I_C at U_C	$\leq 2 \mu\text{A}$
Residual current I_{PE}	$\leq 2 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (Core-Earth)	5 kA
Total surge current (8/20) μs	10 kA
Total surge current (10/350) μs	2.5 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	10 kA (in total)
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	200 A
Impulse discharge current (10/350) μs , peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 800 \text{ V}$
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 800 \text{ V}$
Residual voltage at I_n , (conductor-ground)	$\leq 70 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (conductor-ground)	$\leq 28 \text{ V}$
Voltage protection level U_P (Core-Earth)	$\leq 900 \text{ V}$ (C2, 10 kV/5 kA, spike)
	$\leq 70 \text{ V}$ (C2, 10 kV/5 kA, static)
	$\leq 1 \text{ kV}$ (C3, 7.5 kV/100 A, spike)
	$\leq 30 \text{ V}$ (C3, 7.5 kV/100 A, static)
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
Input attenuation a_E , asym.	0.1 dB ($\leq 10 \text{ MHz}$)
	0.2 dB ($\leq 60 \text{ MHz}$)
	0.5 dB ($\leq 100 \text{ MHz}$)
Cut-off frequency f_g (3 dB), asym. (PE) in 100 Ohm system	$> 100 \text{ MHz}$
Capacity (Core-Earth)	5 pF ($f=1 \text{ MHz} / V_R=0 \text{ V}$)
Surge current resistance (conductor-ground)	C2 (4 kV / 2 kA)
	C3 - 100 A
	B2 - 4 kV/100 A
	D1 - 1 kA
Alternating current carrying capacity (conductor-ground)	5 A - 1 s

Connection data

Connection method	can be plugged into COMTRAB-TERMI BLOCK 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
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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

Approvals

Approvals

GOST / UL Listed

Ex Approvals

Approvals submitted

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Approvals

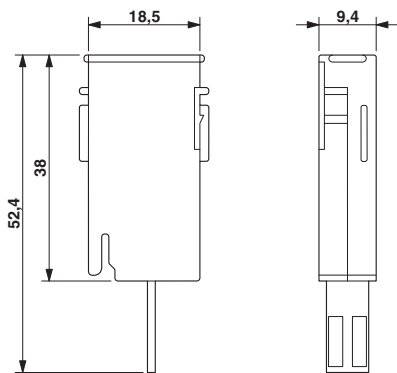
Approval details

GOST 

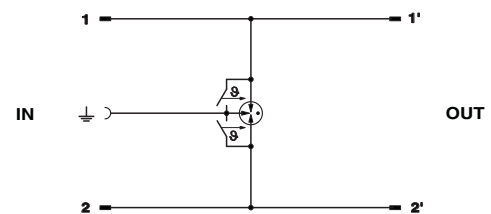
UL Listed 

Drawings

Dimensioned drawing



Circuit diagram



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