

Surge protection plug - CTM 2X1- 24DC - 2838500

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LSA-PLUS plug (COMTRAB CTM) with protective circuit for 2-conductor signal circuits grounded on one side. Nominal voltage: 24 V DC

Your advantages

- ✓ 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	10 pc
GTIN	 4 017918 819538
GTIN	4017918819538

Technical data

Dimensions

Height	21 mm
Width	9.5 mm
Depth	53.5 mm

Ambient conditions

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

General

Housing material	PA
Flammability rating according to UL 94	V-0
Color	black

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Technical data

General

Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Overvoltage category	II
Degree of pollution	2
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
Type	LSA-PLUS module
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10

Protective circuit

IEC test classification	B2
	C1
	C2
	C3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Maximum continuous voltage U_C	± 30 V DC
	21 V AC
Rated current	380 mA AC (25 °C)
Operating effective current I_C at U_C	≤ 5 μ A
Residual current I_{PE}	≤ 2 μ A
Nominal discharge current I_n (8/20) μ s (line-earth)	5 kA
Pulse discharge current I_{imp} (10/350) μ s (line-earth)	1 kA
Total discharge current I_{total} (8/20) μ s	10 kA
Total discharge current I_{total} (10/350) μ s	2.5 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-earth)	10 kA (in total)
Nominal pulse current I_{an} (10/1000) μ s (line-earth)	100 A
Output voltage limitation at 1 kV/ μ s (line-earth) spike	55 V
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 45 V
Residual voltage at I_n (line-earth)	≤ 50 V
Residual voltage with I_{an} (10/1000) μ s (line-earth)	≤ 15 V
Voltage protection level U_p (line-earth)	≤ 100 V (C2 - 10 kV/5 kA, spike)
	≤ 45 V (C2 - 10 kV/5 kA, static)
	≤ 45 V (C3 - 7.5 kV / 100 A, spike)
	≤ 15 V (C3 - 7.5 kV / 100 A, static)

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Protective circuit

Response time t_A (line-earth)	≤ 1 ns
Input attenuation aE, asym.	0.3 dB (≤ 700 kHz)
Cut-off frequency f_g (3 dB), asym. (PE) in 100 Ohm system	2.7 MHz
Capacity (line-earth)	1.2 nF ($f=1$ MHz / $V_R=0$ V)
Resistance in series	3.3 Ω 10 %
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 4 kV / 2 kA
	C3 - 100 A
	B2 - 4 kV / 100 A
	D1 - 1 kA
Alternating current carrying capacity (line-earth)	5 A - 1 s

Connection data

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

Connection, equipotential bonding

Connection method	Spring contact
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Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21 2000

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Approvals

Approvals

Approvals

UL Listed / EAC

Ex Approvals

Approval details

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Approvals

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 138168

EAC



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