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Surge protection plug - CTM 1X2- 60DC - 2838568

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The illustration shows version CTM 1x2- 24 DC

LSA-PLUS plug (COMTRAB CTM) with protection for conductor pairs in floating signal circuits. Nominal voltage: 60 V DC

Why buy this product

- 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
- Space-saving LSA-PLUS connection technology
- Typical installation locations include marshalling distributors
- Modular compact protection for high-density networks

Key Commercial Data

Packing unit	10 STK
GTIN	4 017918 819736

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	V0

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Technical data

General

Color	black
Standards for cearances 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	60 V DC
Maximum continuous voltage U_C	± 65 V DC
	50 V AC
Maximum continuous voltage U_C (wire-wire)	± 65 V DC
	50 V AC
Maximum continuous voltage U_C (wire-ground)	72 V DC
Nominal current I_N	380 mA (25 °C)
Operating effective current I_C at U_C	≤ 70 µA
Residual current I_{PE}	≤ 2 µA
Nominal discharge current I_n (8/20) µs (Core-Core)	5 kA
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 Ian (10/1000) µs (Core-Core)	100 A
Nominal pulse current Ian (10/1000) µs (Core-Earth)	100 A
Impulse discharge current (10/350)#µs, peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 160 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 700 V

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Technical data

Protective circuit

Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 160 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 700 V
Residual voltage at I_n (conductor-conductor)	≤ 95 V
Residual voltage at I_n (conductor-ground)	≤ 60 V
Residual voltage with Ian (10/1000)µs (conductor-conductor)	≤ 35 V
Residual voltage with Ian (10/1000)µs (conductor-ground)	≤ 12 V
Voltage protection level U_p (core-core)	≤ 200 V (C2 - 10 kV/5 kA, spike)
	≤ 95 V (C2 - 10 kV/5 kA, static)
	≤ 160 V (C3, 7.5 kV/100 A, spike)
	≤ 35 V (C3, 7.5 kV/100 A, static)
Voltage protection level U_p (core-ground)	≤ 700 V (C2 - 10 kV/5 kA, spike)
	≤ 90 V (C2 - 10 kV/5 kA, static)
	≤ 700 V (C3, 7.5 kV/100 A, spike)
	≤ 12 V (C3, 7.5 kV/100 A, static)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	0.3 dB (≤ 500 kHz)
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	2 MHz
Capacity (Core-Core)	1.2 nF (f=1 MHz / V_R= 0 V)
Resistance in series	3.3 Ω 10 %
	3.3 Ω
Surge protection fault message	None
Impulse durability (conductor-conductor)	C2 (4 kV/2 kA)
	C3 - 100 A
	B2 - 4 kV/100 A
Impulse durability (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-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

Standards and Regulations

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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
eCl@ss 9.0	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

UL Listed / EAC

Ex Approvals

Approvals submitted

Approval details

Surge protection plug - CTM 1X2- 60DC - 2838568

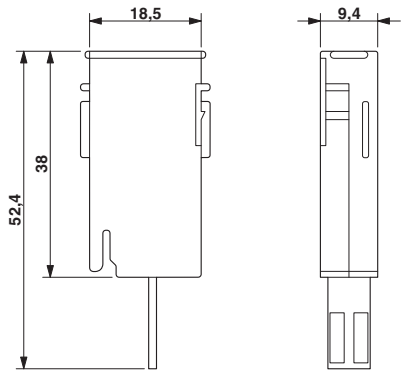
Approvals

UL Listed

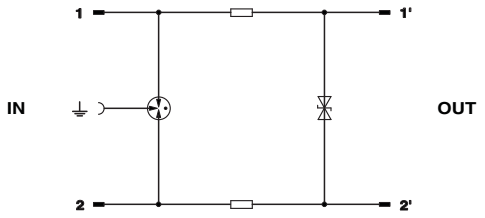
EAC

Drawings

Dimensional drawing



Circuit diagram



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