Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Surge protection connector - CTM 2X1-110AC - 2838526

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://download.phoenixcontact.com)

The illustration shows version CTM 2x1- 24 DC

LSA-PLUS plug (COMTRAB CTM) with protective circuit for 2-conductor signal circuits grounded on one side. Nominal voltage: 110 V AC

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
- 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
Minimum order quantity	1
Catalog page	Page 117 (TT-2011)
GTIN	4 017918 819552
Custom tariff number	85363010
Country of origin	GERMANY

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
Standards for air and creepage distances	IEC 60664-1
Surge voltage category	II
Pollution degree	2
Total surge current (8/20) µs	10 kA
Total surge current (10/350) µs	2.5 kA

Surge protection connector - CTM 2X1-110AC - 2838526

Technical data

General

Ambient temperature (operation)	-25 °C ... 75 °C
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
Design	LSA-PLUS module
Number of positions	2
Degree of protection	IP20
Direction of action	Line-Line & Line-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
Width	9.5 mm
Height	21 mm
Depth	53.5 mm

Protective circuit

IEC category	B2
IEC category	C1
IEC category	C2
IEC category	C3
IEC category	D1
VDE requirement class	B2
VDE requirement class	C1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
Nominal voltage UN	110 V AC
Maximum continuous operating voltage UC	± 180 V DC
Maximum continuous voltage UC (wire-ground)	± 180 V DC
Nominal current IN	380 mA (25°C)
Operating effective current IC at UC	≤ 5 µA
Ground conductor current IPE	≤ 2 µA
Nominal discharge surge current In (8/20) µs (Core-Earth)	5 kA
Total surge current (8/20) µs	10 kA
Max. discharge surge current Imax (8/20) µs maximum (Core-Earth)	10 kA (in total)
Nominal pulse current Ian (10/1000) µs (Core-Earth)	100 A
Lightning test current (10/350) µs, peak value limp	1 kA
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 260 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 15 V
Residual voltage at In, (conductor-ground)	≤ 10 V
Residual voltage with Ian (10/1000)µs (conductor-ground)	≤ 10 V
Protection level UP (Core-Earth)	≤ 260 V (C2, 10 kV/5 kA, spike)
Protection level UP (Core-Earth)	≤ 10 V (C2, 10 kV/5 kA, static)
Protection level UP (Core-Earth)	≤ 260 V (C3, 7.5 kV/100 A, spike)
Protection level UP (Core-Earth)	≤ 10 V (C3, 7.5 kV/100 A, static)
Response time tA (Core-Earth)	≤ 1 ns

Surge protection connector - CTM 2X1-110AC - 2838526

Technical data

Protective circuit

Input attenuation aE, asym.	0.3 dB (≤ 3 MHz)
Cut-off frequency fg (3 dB), asym. (PE) in 100 Ohm system	Typ. 20 MHz
Capacity (Core-Earth)	100 pF (f=1 MHz / VR= 0 V)
Resistance in series	3.3 Ω 10 %
Resistance in series	3.3 Ω
Message: Surge protection fault	None
Max. required back-up fuse	150 mA
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (4 kV / 2 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	B2 (4 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (1 kA)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	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

Connection, protective circuit

Standards/regulations	IEC 61643-21

Classifications

eclass

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

etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943

unspsc

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610

Surge protection connector - CTM 2X1-110AC - 2838526

Classifications

unspsc

UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

Approvals

UL Recognized / GOST / UL Listed

Ex Approvals

Approvals submitted

Approval details

UL Recognized

GOST

UL Listed

Accessories

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.

Surge protection connector - CTM 2X1-110AC - 2838526

Accessories

Grounding rail - CT 1-10-ES - 2765547

Ground rail for CTM protective plug when used in combination with LSA-PLUS disconnect strip. Version: 10 double conductors

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

Magazine - CTM 10-MAG - 2838610

Magazine with a grounding rail to accommodate up to 10 LSA-PLUS protective plugs (COMTRAB CTM), to insert in CT-TERMIBLOCK or LSA-PLUS disconnect strip

Additional products

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

Surge protection connector - CTM 2X1-110AC - 2838526

Accessories

Cable feed-through sleeve - CT-KDT - 2765518

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

Short-circuit connector - CTM EST - 2838649

LSA-PLUS grounding plug (COMTRAB CTM) to short-circuit and ground potentials in CT-TERMIBLOCK... and disconnect strip CT 10...

Shield connection - SSA 3-6 - 2839295

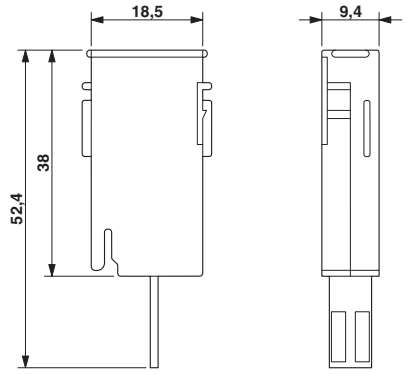
shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

Shield connection - SSA 5-10 - 2839512

Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

Drawings

Dimensioned drawing



Circuit diagram