



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 device - TT-2/2-24DC - 2838173

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>)



Modular terminal block with three-stage surge protection for two signal wires with common reference potential, separate ground connection, nominal voltage: 24 V DC, for mounting on NS 35/7.5, terminal width: 6.2 mm, terminal height: 54.6 mm

Why buy this product

- Versions with and without disconnect knife
- Protection of two signal wires with common reference potential
- Multi-stage modular terminal blocks with screw connection technology
- Disconnection of signal circuits by disconnect knife



Key commercial data

| | |
|------------------------|---|
| Packing unit | 1 |
| Minimum order quantity | 10 |
| Catalog page | Page 107 (TT-2011) |
| GTIN |  4 017918 172848 |
| Custom tariff number | 85363010 |
| Country of origin | GERMANY |

Technical data

General

| | |
|--|---|
| Housing material | PA 6.6 |
| Inflammability class according to UL 94 | V0 |
| Color | black |
| Standards for air and creepage distances | IEC 60664-1 |
| Total surge current (8/20) μ s | 10 kA |
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Mounting type | DIN rail: 35 mm |
| Design | Double-level terminal block with PE foot – separate PE connection |
| Number of positions | 2 |
| Degree of protection | IP20 |
| Direction of action | Line-Earth Ground |
| Width | 6.2 mm |

Surge protection device - TT-2/2-24DC - 2838173

Technical data

General

| | |
|--------|---------|
| Height | 79.6 mm |
| Depth | 54.6 mm |

Protective circuit

| | |
|--|----------------------------|
| IEC category | C1 |
| IEC category | C2 |
| IEC category | C3 |
| IEC category | D1 |
| Nominal voltage UN | 24 V DC |
| Maximum continuous operating voltage UC | 30 V DC |
| Maximum continuous voltage UC (wire-ground) | 30 V DC |
| Nominal current IN | 300 mA (40°C) |
| Operating effective current IC at UC | ≤ 10 μA (per path) |
| Ground conductor current IPE | ≤ 10 μA (per path) |
| Nominal discharge surge current In (8/20) μs (Core-Earth) | 5 kA |
| Total surge current (8/20) μs | 10 kA |
| Nominal pulse current Ian (10/1000) μs (Core-Earth) | 100 A |
| Lightning test current (10/350) μs, peak value limp | 500 A |
| Output voltage limitation at 1 kV/μs (Core-Earth) spike | ≤ 50 V |
| Protection level UP (Core-Earth) | ≤ 90 V (C2 - 10 kV / 5 kA) |
| Protection level UP (Core-Earth) | ≤ 55 V (C1 - 1 kV/500 A) |
| Protection level UP (Core-Earth) | ≤ 45 V (C3 - 10 A) |
| Protection level UP (Core-Earth) | ≤ 50 V (C3 - 100 A) |
| Protection level UP (Core-Earth) | ≤ 130 V (D1 - 500 A) |
| Response time tA (Core-Earth) | ≤ 1 ns |
| Input attenuation aE, asym. | 0.4 dB (≤ 200 kHz / 50 Ω) |
| Input attenuation aE, asym. | 0.1 dB (≤ 30 kHz/150 Ω) |
| Cut-off frequency fg (3 dB), asym. (PE) in 50 Ohm system | Typ. 1.5 MHz |
| Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system | Typ. 550 kHz |
| Capacity (Core-Core) | ≤ 4 nF |
| Resistance in series | 6.6 Ω ±20 % |
| Resistance in series | 6.6 Ω |
| Message: Surge protection fault | None |
| Max. required back-up fuse | 315 mA (T/IEC 60127-2/3) |
| Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth) | C1 (1 kV / 500 A) |
| Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth) | C2 (10 kV/5 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) | D1 (500 A) |
| Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth) | 0.5 A/1 s |

Connection data

| | |
|--------------------|-----------------------|
| Connection method | Screw connection |
| Connection type IN | Screw terminal blocks |

Surge protection device - TT-2/2-24DC - 2838173

Technical data

Connection data

| | |
|--|-----------------------|
| Connection type OUT | Screw terminal blocks |
| Screw thread | M3 |
| Tightening torque | 0.8 Nm |
| Stripping length | 8 mm |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 14 |

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 |
| UNSPSC 11 | 39121610 |
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2 | 39121620 |

Approvals

Approvals

Approvals

UL Recognized / GOST / GOST / GL / UL Listed

Ex Approvals


UL Listed / cUL Listed / cULus Recognized

Surge protection device - TT-2/2-24DC - 2838173

Approvals

Approvals submitted

Approval details

UL Recognized 

GOST 

GOST 

GL

UL Listed 

Accessories

Accessories

Assembly

End cover - D-DEK 1,5 BK - 2838995



Cover for setting the end of a TERMITRAB TT-2-PE... and TT-2/2 row of terminal blocks, color: black

Marking

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Surge protection device - TT-2/2-24DC - 2838173

Accessories

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

Zack Marker strip, flat - ZBF 6/WH-100:UNBEDRUCKT - 0808736



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

Zack Marker strip, flat - ZBF 6,LGS:FORTL.ZAHLEN - 0808749



Zack Marker strip, flat, Strip, white, Labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

Additional products

End cover - D-DEK 1,5 BK - 2838995



Cover for setting the end of a TERMITRAB TT-2-PE... and TT-2/2 row of terminal blocks, color: black

Shield connection - SSA 3-6 - 2839295



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

Surge protection device - TT-2/2-24DC - 2838173

Accessories

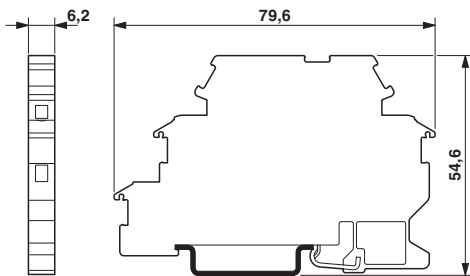
Shield connection - SSA 5-10 - 2839512



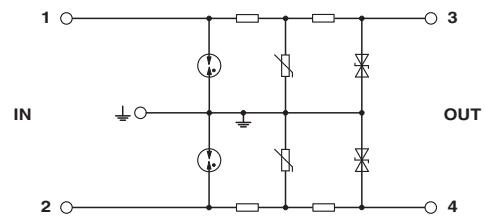
Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

Drawings

Dimensioned drawing



Circuit diagram



Schematic diagram

