

TTC-6P-T3-24DC-I-P - Type 3 surge protection plug



1027591

<https://www.phoenixcontact.com/us/products/1027591>

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Replacement plug for type 3 surge protection from the TERMITRAB complete T3 product series.
Nominal voltage 24 V.

Your advantages

- Space-saving and cost-saving with a narrow overall width of just 6 mm
- Continuous monitoring of protective devices, plus mechanical status indicator with optional remote signaling
- Finding the right product for all possible requirements in MCR applications is easy, thanks to the complete range of products with customized features
- Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

Commercial Data

| | |
|--------------------------------------|--------------------|
| Item number | 1027591 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | CL01 |
| Product Key | CL14D1 |
| Catalog Page | Page 85 (C-4-2019) |
| GTIN | 4055626522234 |
| Weight per Piece (including packing) | 25.5 g |
| Weight per Piece (excluding packing) | 8.72 g |
| Customs tariff number | 85363030 |
| Country of origin | DE |

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Technical Data

Notes

General

| Note | |
|------|----------------------------------|
| | CBM: |
| | 2905743 CBM E4 24DC/0.5-10A NO-R |
| | 2905744 CBM E8 24DC/0.5-10A NO-R |
| | CBMC: |
| | 2906032 CBMC E4 24DC/1-10A NO |
| | 2908716 CBMC E4 24DC/1-10A NO-C |
| | 2910411 CBMC E4 24DC/1-10A IOL |
| | PTCB: |
| | 2908262 PTCB E1 24DC/1-8A NO |
| | CB E1: |
| | 2800907 CB E1 24DC/10A NO P |
| | 2800914 CB E1 24DC/10A S-R P |
| | 2800928 CB E1 24DC/10A S-C P |
| | 2905805 CB E1 24DC/10A SI-R P |
| | 2905812 CB E1 24DC/10A SI-C P |

Product properties

| | |
|--------------------------------|--------------------|
| IEC power supply system | DC |
| Type | Male |
| Product type | Replacement plug |
| Product family | TERMITRAB complete |
| Surge protection fault message | optical |

Insulation characteristics

| | |
|-------------------------|-----|
| Overvoltage category | III |
| Pollution degree | 2 |
| IEC test classification | III |
| | T3 |
| EN type | T3 |
| Number of ports | One |

Connection data

| | |
|-------------------|-----------|
| Connection method | pluggable |
|-------------------|-----------|

Dimensions

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| | |
|---------------------|----------------|
| Dimensional drawing | |
| Width | 6.2 mm +0.1 mm |
| Height | 39 mm |
| Depth | 60.3 mm |

Material specifications

| | |
|--|-----|
| Flammability rating according to UL 94 | V-0 |
| CTI value of material | 600 |
| Insulating material | PBT |
| Housing material | PBT |

Protective circuit

| | |
|--|---|
| Mode of protection | (DC+) - (DC-) |
| | (DC+/DC-) - PE |
| Direction of action | 1L-N & N-PE |
| Nominal voltage U_N | 24 V DC |
| Maximum continuous voltage U_C | 30 V DC |
| Residual current I_{PE} | $\leq 5 \mu A$ |
| Nominal discharge current I_n (8/20) μs | 1 kA |
| Combination wave U_{OC} | 2 kV (2 Ω) |
| | 2 kV (2 Ω) |
| Voltage protection level U_p (DC+) - (DC-) | ≤ 0.09 kV ($U_{oc} = 2$ kV) |
| | ≤ 0.2 kV ($U_{oc} = 6$ kV) |
| Voltage protection level U_p (DC+/DC-) - PE | ≤ 0.7 kV |
| Short-circuit current rating I_{SCCR} | 60 A DC (without additional backup fuse) |
| | 220 A DC |
| Max. backup fuse with branch wiring | 6 A (gG) |
| | 10 A (see the note: CBM, CBMC, PTCB, CB E1) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 6000 m (amsl) |
| Permissible humidity (operation) | 5 % ... 95 % |
| Shock (operation) | 30g (Half-sine / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$) |
| Vibration (operation) | 5g (10 ... 150 Hz/20 cycles/axis/X, Y, Z) |

Standards and regulations

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| | |
|--------------------------|--------------|
| Standards/specifications | IEC 61643-11 |
|--------------------------|--------------|

EN 61643-11

| | |
|--------------------------|-------------|
| Standards/specifications | EN 61643-11 |
|--------------------------|-------------|

Mounting

| | |
|---------------|-----------------|
| Mounting type | on base element |
|---------------|-----------------|

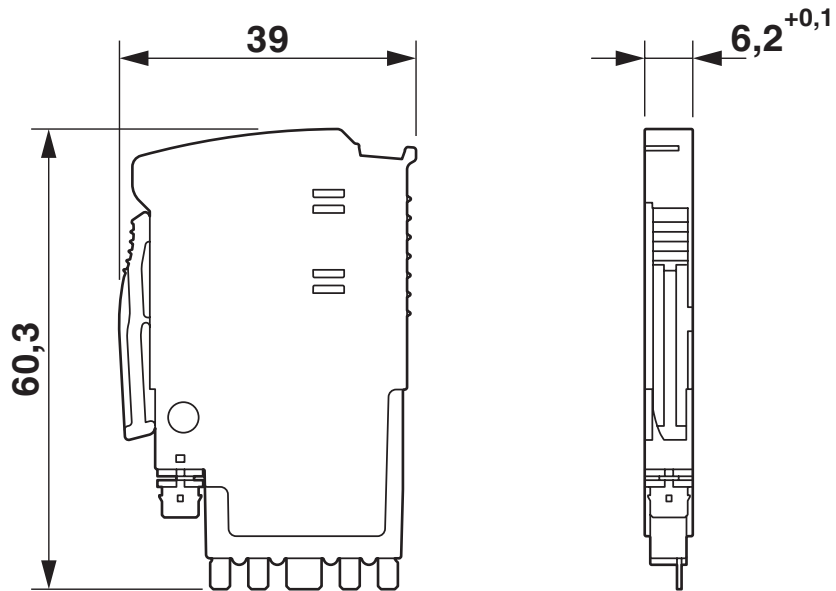
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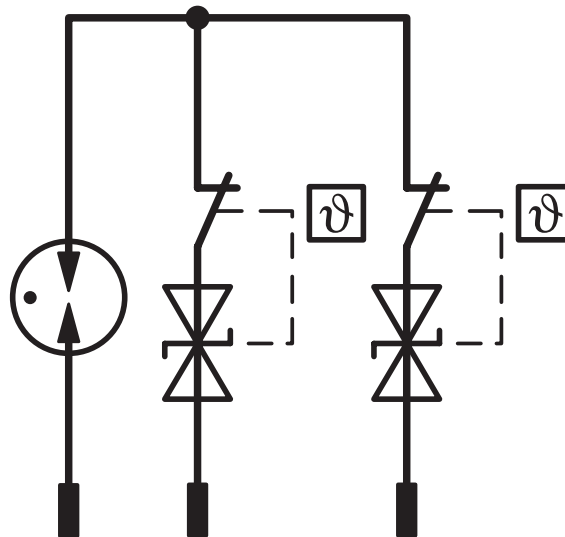
<https://www.phoenixcontact.com/us/products/1027591>

Drawings

Dimensional drawing



Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1027591>



UL Listed

Approval ID: FILE E 138168



cUL Listed

Approval ID: FILE E 333250



UL Listed

Approval ID: FILE E 333250

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27130890 |
| ECLASS-13.0 | 27171292 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC002496 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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Environmental Product Compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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Accessories

X-PEN 0,35 - Marker pen

0811228

<https://www.phoenixcontact.com/us/products/0811228>



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

ZBF 6 CUS - Zack Marker strip, flat

0825027

<https://www.phoenixcontact.com/us/products/0825027>



Zack Marker strip, flat, Strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

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ZBF 6:UNBEDRUCKT - Zack Marker strip, flat

0808710

<https://www.phoenixcontact.com/us/products/0808710>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

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

0808736

<https://www.phoenixcontact.com/us/products/0808736>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 1000

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

0808765

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Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

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