

TT-UK5/ 48DC


Order No.: 2794709

The illustration shows version TT-UK5- 24 DC

<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2794709>

Modular terminal block with surge voltage fine protection between clamping connector and DIN rail, nominal voltage: 48 V DC, for mounting on NS 32 or NS 35/7.5, terminal width: 6.2 mm, terminal height: 47 mm

Commercial data

| | |
|--------------------------|--|
| EAN |  4 017918 072889 |
| sales group | J303 |
| Pack | 50 Pcs. |
| Customs tariff | 85363030 |
| Gross weight in pieces | 0.01114 KG |
| Net weight per piece | 0.00115 KG |
| Catalog page information | Page 98 (C-6-2013) |

Product notes

WEEE/RoHS-compliant since:
01/31/2006

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Technical data

Dimensions

| | |
|--------|---------|
| Height | 47 mm |
| Width | 6.2 mm |
| Length | 42.5 mm |

Ambient conditions

| | |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Degree of protection | IP20 |

General

| | |
|---|-----------------------------|
| Housing material | PA |
| Inflammability class according to UL 94 | V2 |
| Color | black |
| Mounting type | DIN rail/G-profile rail |
| Type | Single-level terminal block |
| Number of positions | 1 |
| Direction of action | Line-Earth Ground |

Protective circuit

| | |
|--|----------------|
| IEC test classification | C3 |
| VDE requirement class | C3 |
| Nominal voltage U_N | 48 V DC |
| Maximum continuous operating voltage U_C | 53 V DC |
| | 37 V AC |
| Maximum continuous voltage U_C (wire-ground) | 53 V DC |
| | 37 V AC |
| Nominal current I_N | 32 A (50 °C) |
| Residual current I_{PE} | $\leq 5 \mu A$ |
| Nominal discharge current I_n (8/20) μs (Core-Earth) | 90 A |
| Total surge current (8/20) μs | 90 A |
| Max. discharge current I_{max} (8/20) μs maximum (Core-Earth) | 90 A |
| Nominal pulse current I_{an} (10/1000) μs (Core-Earth) | 17.7 A |
| Output voltage limitation at 1 kV/ μs (Core-Earth) spike | $\leq 80 V$ |
| Output voltage limitation at 1 kV/ μs (Core-Earth) static | $\leq 80 V$ |
| Residual voltage at I_n , (conductor-ground) | $\leq 111 V$ |
| Response time t_A (Core-Earth) | $\leq 1 ns$ |
| Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system | typ. 3.8 MHz |

| | |
|--|-----------|
| Capacity (Core-Earth) | ≤ 0.85 nF |
| Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth) | C3 (10 A) |

Connection data

| | |
|--|-----------------------|
| Connection method | Screw connection |
| Connection type IN | Screw terminal blocks |
| Connection type OUT | Screw terminal blocks |
| Screw thread | M3 |
| Tightening torque | 0.5 Nm |
| Stripping length | 8 mm |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 4 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 | 12 |

Standards and Regulations

| | |
|-----------------------|--------------|
| Standards/regulations | IEC 61643-21 |
|-----------------------|--------------|

Certificates / Approvals



Certification CSA, cULus Recognized, GOST

Certifications applied for:

Certification Ex:

Accessories

| Item | Designation | Description |
|-----------------|------------------|---|
| Assembly | | |
| 2794990 | D-TERMITRAB-UK 5 | Cover for setting the end of a TT-UK 5 row of terminal blocks, color: black |

Marking

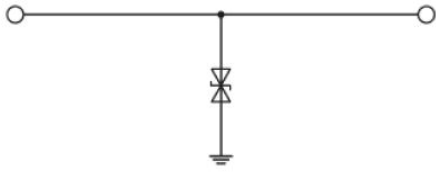
| | | |
|---------|-------------------------|---|
| 1051993 | B-STIFT | Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm |
| 1051016 | ZB 6,LGS:FORTL.ZAHLEN | Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm |
| 1051414 | ZB 6,LGS:L1-N,PE | Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm |
| 1051430 | ZB 6,LGS:U-N | Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: U, V, W, N, GND, U, V, W, N, GND, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm |
| 1051003 | ZB 6:UNBEDRUCKT | Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm |
| 0808749 | ZBF 6,LGS:FORTL.ZAHLEN | 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 |
| 0808736 | ZBF 6/WH-100:UNBEDRUCKT | 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 |
| 0808710 | ZBF 6:UNBEDRUCKT | 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 |

Additional products

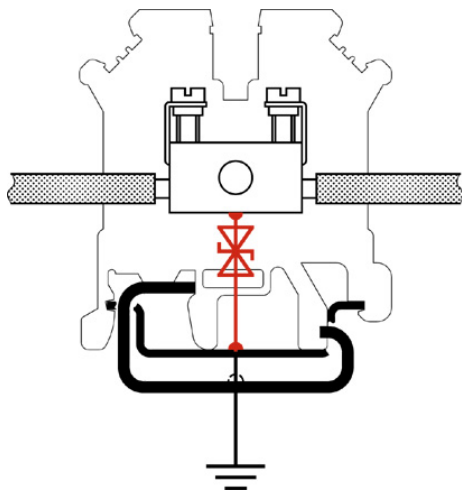
| Item | Designation | Description |
|-----------------|------------------|---|
| Assembly | | |
| 2794990 | D-TERMITRAB-UK 5 | Cover for setting the end of a TT-UK 5 row of terminal blocks, color: black |
| 2839295 | SSA 3-6 | shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black |
| 2839512 | SSA 5-10 | Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black |

Drawings

Circuit diagram



Schematic diagram



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