

Surge protection device - TT-UKK5-M/ 48DC - 2795973

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Double-level modular terminal block with suppressor diode as surge protection between both levels, disconnect knife in the upper level, nominal voltage: 48 V DC, for mounting on NS 32 or NS 35/7.5, closed housing, terminal width: 6.2 mm, terminal height: 68 mm


The illustration shows version TT-UKK5-M-24 DC

Why buy this product

- Can be used in the signal circuits of electronic controllers



Key commercial data

| | |
|--------------------------------------|---|
| Packing unit | 50 pc |
| GTIN |  4 017918 073237 |
| Weight per Piece (excluding packing) | 25.59 g |
| Custom tariff number | 85363010 |
| Country of origin | Greece |
| Note | Made to Order (non-returnable) |

Technical data

Dimensions

| | |
|--------|--------|
| Height | 80 mm |
| Width | 6.2 mm |
| Depth | 68 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 |
| Standards for air and creepage distances | VDE 0110-1 |

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Technical data

General

| | |
|---------------------|---|
| Mounting type | DIN rail/G-profile rail |
| Type | Double-level terminal block with disconnect knife |
| Number of positions | 1 |
| Direction of action | Line-Line |

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-wire) | 53 V DC |
| Maximum continuous voltage U_C (wire-ground) | 37 V AC |
| Nominal current I_N | 12 A (45°C) |
| Operating effective current I_C at U_C | $\leq 5 \mu\text{A}$ |
| Nominal discharge current I_n (8/20) μs (Core-Core) | 90 A |
| Total surge current (8/20) μs | 90 A |
| Max. discharge current I_{max} (8/20) μs maximum (Core-Core) | 90 A |
| Nominal pulse current I_{an} (10/1000) μs (Core-Core) | 17.7 A |
| Output voltage limitation at 1 kV/ μs (Core-Core) static | ≤ 80 V |
| Residual voltage at I_n , (conductor-conductor) | ≤ 111 V |
| Response time t_A (Core-Core) | ≤ 1 ns |
| Cut-off frequency f_g (3 dB), sym. in 150 Ohm system | typ. 3.8 MHz |
| Capacity (Core-Core) | ≤ 0.85 nF |
| Impulse durability (conductor-conductor) | 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

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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 |

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

CSA / EAC

Ex Approvals

Approvals submitted

Approval details

Surge protection device - TT-UKK5-M/ 48DC - 2795973

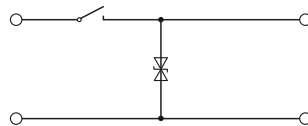
Approvals

| | |
|--------------------------------|-------|
| CSA | |
| mm ² /AWG/kcmil | 24-12 |
| Nominal current I _N | 12 A |
| Nominal voltage U _N | 48 V |

| |
|-----|
| EAC |
|-----|

Drawings

Circuit diagram



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Schematic diagram

