

Surge protection device - TT-UK5/ 48AC - 2794767

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

The illustration shows version TT-UK5- 24 DC



Key commercial data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 12.4 GRM |
| Custom tariff number | 85363030 |
| Country of origin | Greece |

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 |

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Technical data

Protective circuit

| | |
|--|------------------------|
| IEC test classification | C3 |
| VDE requirement class | C3 |
| Nominal voltage U_N | 48 V AC |
| Maximum continuous operating voltage U_c | 77 V DC |
| | 55 V AC |
| Maximum continuous voltage U_c (wire-ground) | 55 V AC |
| | 77 V DC |
| Nominal current I_N | 32 A (50 °C) |
| Residual current I_{PE} | $\leq 5 \mu\text{A}$ |
| Nominal discharge current I_n (8/20) μs (Core-Earth) | 62 A |
| Total surge current (8/20) μs | 62 A |
| Max. discharge current I_{max} (8/20) μs maximum (Core-Earth) | 62 A |
| Nominal pulse current I_{an} (10/1000) μs (Core-Earth) | 12 A |
| Output voltage limitation at 1 kV/ μs (Core-Earth) static | $\leq 120 \text{ V}$ |
| Residual voltage at I_n , (conductor-ground) | $\leq 162 \text{ V}$ |
| Response time t_A (Core-Earth) | $\leq 1 \text{ ns}$ |
| Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system | typ. 2.9 MHz |
| Capacity (Core-Earth) | $\leq 0.63 \text{ nF}$ |
| 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 |
|-----------------------|--------------|

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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 / UL Recognized / cUL Recognized / GOST / GOST / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

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Approvals

| | |
|--------------------------------|-------|
| CSA | |
| mm ² /AWG/kcmil | 28-10 |
| Nominal current I _N | 34 A |
| Nominal voltage U _N | 48 V |

| | |
|--------------------------------|-------|
| UL Recognized | |
| mm ² /AWG/kcmil | 26-10 |
| Nominal current I _N | 30 A |
| Nominal voltage U _N | 48 V |

| | |
|--------------------------------|-------|
| cUL Recognized | |
| mm ² /AWG/kcmil | 26-10 |
| Nominal current I _N | 30 A |
| Nominal voltage U _N | 48 V |

| | |
|------|--|
| GOST | |
|------|--|

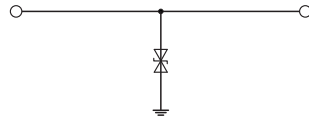
| | |
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| GOST | |
|------|--|

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| cULus Recognized | |
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Drawings

Surge protection device - TT-UK5/ 48AC - 2794767

Circuit diagram



Schematic diagram

