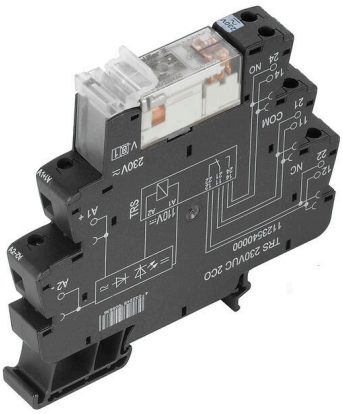
Data sheet

# TRS 48VUC 2CO

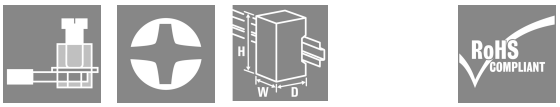
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Klingenbergstraße 26
D-32758 Detmold
Germany

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## Product image



Similar to illustration




- 2 CO contacts
- Contact material: AgNi
- Unique multi-voltage input from 24 to 230 V UC
- Input voltages from 5 V DC to 230 V UC with coloured marking: AC: red, DC: blue, UC: white

### General ordering data

| | |
|---|---|
| Version | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, Screw connection, Test button available: No |
| Order No. | 1123510000 |
| Type | TRS 48VUC 2CO |
| GTIN (EAN) | 4032248905829 |
| Qty. | 10 items |



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# Data sheet

## TRS 48VUC 2CO

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# Technical data

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 87.8 mm | Depth (inches) | 3.4567 inch |
| Height | 89.6 mm | Height (inches) | 3.5276 inch |
| Width | 12.8 mm | Width (inches) | 0.5039 inch |
| Net weight | 57 g | | |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -40 °C...85 °C | Ambient temperature | -40 °C...60 °C |
| Operating temperature | | Humidity | 5-95% relative humidity, Tu = 40°C, without condensation |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cI |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9 |

### Rated data UL

| | | | |
|---|---|---|---|
| Ambient temperature (operational), max. | 60 °C | Connection cross-section AWG, min. | AWG 26 |
| Connection cross-section AWG, max. | AWG 14 | Type of conductor | rigid copper conductor, flexible copper conductor |
| Tightening torque, max. | 0.4 Nm | Pollution severity level | 2 |

### Control side

| | | | |
|---|---|---|---|
| Rated control voltage | 48 V UC ±10 % | Rated current AC | 9 mA |
| Rated current DC | 7 mA | Power rating | 340 mW / 0.4 VA |
| Status indicator | Green LED | Protective circuit | Rectifier |
| Coil voltage of the replacement relay deviating from the rated control voltage | Yes | Coil voltage of the replacement relay | 48 V DC |

### Load side

| | | | |
|---|---|---|---|
| Rated switching voltage | 250 V AC | Continuous current | 8 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, AC | 250 V |
| Max. switching voltage, DC | 250 V | Inrush current | 15 A / 4 s |
| AC switching capacity (resistive), max. | 2000 VA | DC switching capacity (resistive), max. | 192 W @ 24 V |
| Switch-on delay | ≤ 11 ms | Switch-off delay | ≤ 7 ms |
| Contact type | 2 CO contact (AgNi) | Mechanical service life | 30 x 106 switching cycles |
| Min. switching power | 1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V | | |



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# Data sheet

## TRS 48VUC 2CO

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# Technical data

### General data

| | | |
|---|---|---|
| Operating altitude | ≤ 2000 m, above sea level | |
| Mounting rail | TS 35 | |
| Test button available | No | |
| Mechanical switch position indicator | No | |
| Colour | black | |
| UL94 flammability rating component | Component | Housing |
| | UL94 flammability rating | V-0 |
| | Component | Retaining clip |
| | UL94 flammability rating | V-0 |

### Insulation coordination

| | | | |
|---|---|---|---|
| Rated voltage | 300 V | Pollution severity | 2 |
| Surge voltage category | III | Clearance and creepage distances for control side - load side | ≥ 6 mm |
| Dielectric strength for control side - load side | 3.51 kVeff /1 min. | Type of isolation at input and output | reinforced insulation |
| Dielectric strength of neighbouring contacts | 2.5 kVeff / 1 Min. | Type of isolation at neighbouring contacts | Basic insulation |
| Dielectric strength of open contact | 1 kVeff / 1 min | Dielectric strength to mounting rail | 4 kVeff / 1 Min. |
| Impulse withstand voltage | 6 kV (1.2/50 µs) | Protection degree | IP20 |

### Further details of approvals / standards

| | | | |
|---|---|---|---|
| Certificate No. (DNV) | TAA00001E5 | Certificate no. (cULus) | E141197 |

### Connection data

| | | | |
|---|---|---|---|
| Wire connection method | Screw connection | Stripping length, rated connection | 8 mm |
| Tightening torque, max. | 0.4 Nm | Clamping range, rated connection | 1.5 mm² |
| Clamping range, min. | 0.14 mm² | Clamping range, max. | 2.5 mm² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 14 |
| Wire cross-section, solid, min. | 0.14 mm² | Wire cross-section, solid, max. | 2.5 mm² |
| Wire cross-section, solid, min. (AWG) | AWG 26 | Wire cross-section, solid, max. (AWG) | AWG 14 |
| Wire connection cross section, finely stranded, min. | 0.14 mm² | Wire connection cross section, finely stranded, max. | 2.5 mm² |
| Wire cross-section, finely stranded, min. (AWG) | AWG 26 | Wire cross-section, finely stranded, max. (AWG) | AWG 16 |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.25 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.25 mm² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 1.5 mm² |
| Wire connection cross section, finely stranded, two clampable wires, min. | 0.5 mm² | Wire cross-section, finely stranded, two clampable wires, max. | 1 mm² |
| Blade size | size PH0 | | |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC001437 | ETIM 9.0 | EC001437 |
| ETIM 10.0 | EC001437 | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 | | |



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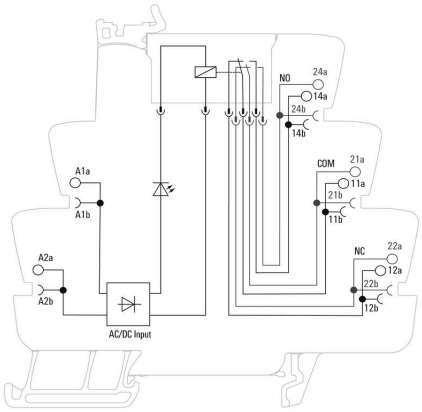
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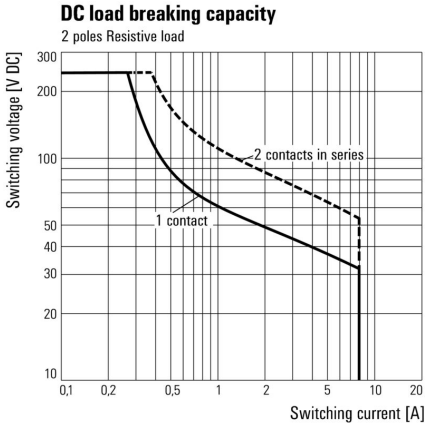
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# Drawings

## Wiring diagram

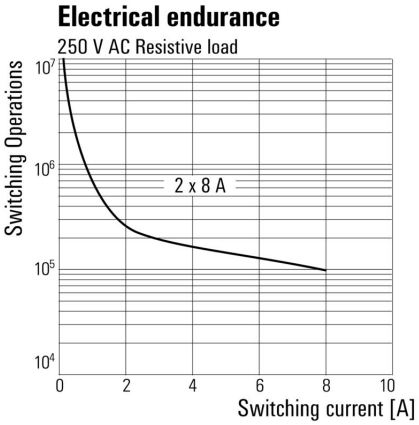



## Graph



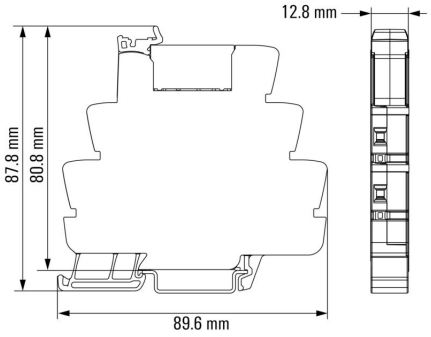

DC load limit curve Resistive load

## Graph




Electrical service life230 V AC
resistive load 230 V AC resistive load

## Dimensional drawing





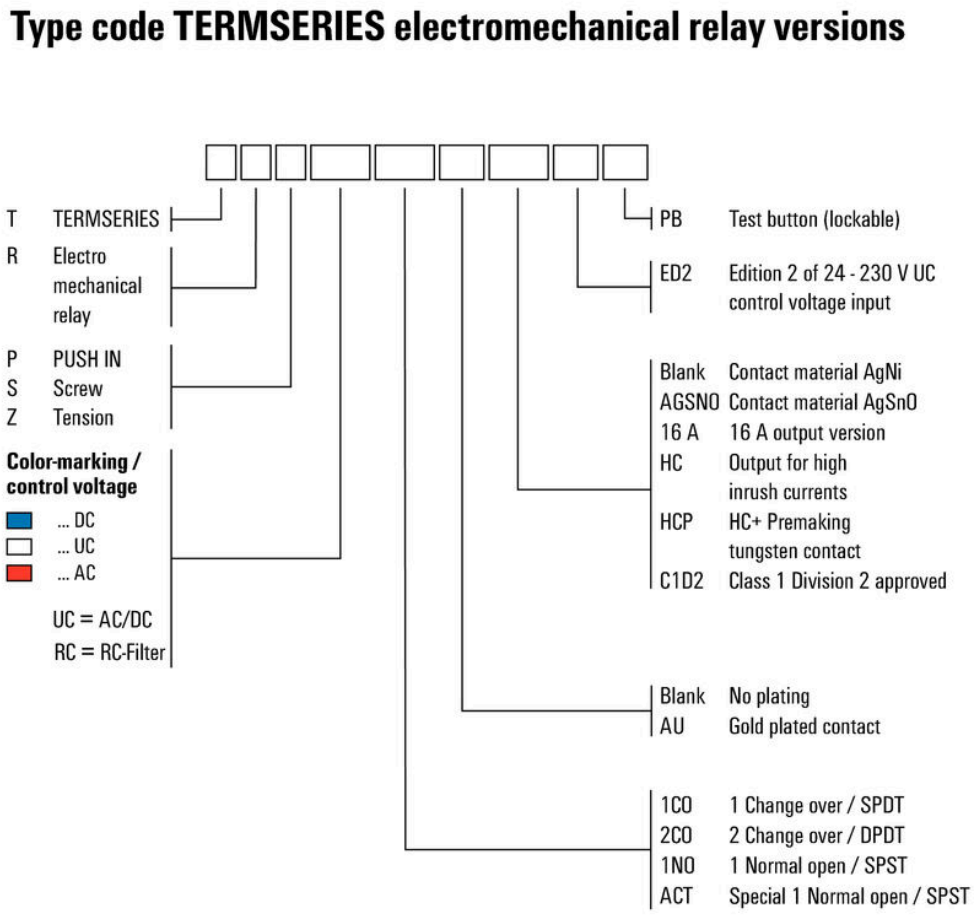

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## Drawings

### Miscellaneous




Type codes



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