

**TRP 48VUC 2CO AU****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

- 2 CO contacts
- Contact material: AgNi 5µm Au
- 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 gold-plated, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 8 A, PUSH IN, Test button: No |
| Order No.  | <a href="#">2618560000</a>                                                                                                                                                  |
| Type       | TRP 48VUC 2CO AU                                                                                                                                                            |
| GTIN (EAN) | 4050118670271                                                                                                                                                               |
| Qty.       | 10 pc(s).                                                                                                                                                                   |

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Catalogue status 09.04.2021 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 87.8 mm    | Depth (inches)  | 3.457 inch |
| Height         | 89.4 mm    | Height (inches) | 3.52 inch  |
| Net weight     | 57 g       | Width           | 12.8 mm    |
| Width (inches) | 0.504 inch |                 |            |

## Temperatures

|                     |                                                                            |                       |                |
|---------------------|----------------------------------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C                                                             | Operating temperature | -40 °C...60 °C |
| Humidity            | 5-95% relative humidity,<br>T <sub>u</sub> = 40°C, without<br>condensation |                       |                |

## Rated data UL

|                                    |                           |                                    |                                                      |
|------------------------------------|---------------------------|------------------------------------|------------------------------------------------------|
| Operating altitude                 | ≤ 2000 m, above sea level | Connection cross-section AWG, min. | AWG 26                                               |
| Connection cross-section AWG, max. | AWG 14                    | Type of conductor                  | rigid copper conductor,<br>flexible copper conductor |
| Pollution severity level           | 2                         |                                    |                                                      |

## Control side

|                                       |                                    |                                                                                   |                                  |
|---------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|
| Coil voltage of the replacement relay | 48 V DC                            | Coil voltage of the replacement relay<br>deviating from the rated control voltage | Yes                              |
| Power rating                          | 340 mW / 0.4 VA                    | Protective circuit                                                                | Rectifier                        |
| Pull-in/drop-out current, typ.        | 6 mA / 3 mA AC<br>5 mA / 1.5 mA DC | Pull-in/drop-out voltage, typ.                                                    | 29 V / 11 V AC<br>33 V / 11 V DC |
| Rated control voltage                 | 48 V UC ± 10 %                     | Rated current AC                                                                  | 9 mA                             |
| Rated current DC                      | 7 mA                               | Status indicator                                                                  | Green LED                        |

## Load side

|                                         |              |                            |            |
|-----------------------------------------|--------------|----------------------------|------------|
| AC switching capacity (resistive), max. | 2000 VA      | Continuous current         | 8 A        |
| DC switching capacity (resistive), max. | 192 W @ 24 V | Inrush current             | 15 A / 4 s |
| Max. switching frequency at rated load  | 0.1 Hz       | Max. switching voltage, DC | 250 V      |
| Min. switching power                    | 1 mA @ 1 V   | Rated switching voltage    | 250 V AC   |
| Switch-off delay                        | ≤ 7 ms       | Switch-on delay            | ≤ 11 ms    |

## Contact data

|              |                                 |                         |                                       |
|--------------|---------------------------------|-------------------------|---------------------------------------|
| Contact type | 2 CO contact (AgNi gold-plated) | Mechanical service life | 30 x 10 <sup>6</sup> switching cycles |
|--------------|---------------------------------|-------------------------|---------------------------------------|

## General data

|                                      |                          |                |  |
|--------------------------------------|--------------------------|----------------|--|
| Rail                                 | TS 35                    |                |  |
| Test button                          | 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            |  |
|                                      | Component                | Pusher         |  |
|                                      | UL94 flammability rating | V-0            |  |

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## Insulation coordination

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

## Further details of approvals / standards

|                         |                                        |                         |            |
|-------------------------|----------------------------------------|-------------------------|------------|
| Standards               | EN 50178, EN 55011, EN 61000-6-1, 2, 4 | Certificate No. (DNVGL) | TAA00001E5 |
| Certificate no. (cULus) | E141197                                |                         |            |

## Connection data

|                                                                                         |                     |                                                                                         |                      |
|-----------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------|----------------------|
| Wire connection method                                                                  | PUSH IN             | Stripping length, rated connection                                                      | 9 mm                 |
| Clamping range, rated connection                                                        | 1.5 mm <sup>2</sup> | Clamping range, min.                                                                    | 0.14 mm <sup>2</sup> |
| Clamping range, max.                                                                    | 2.5 mm <sup>2</sup> | Wire connection cross section AWG, min.                                                 | AWG 26               |
| Wire connection cross section AWG, max.                                                 | AWG 14              | Wire cross-section, solid, min.                                                         | 0.14 mm <sup>2</sup> |
| Wire cross-section, solid, max.                                                         | 2.5 mm <sup>2</sup> | 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 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, max.                                    | 2.5 mm <sup>2</sup> | Wire cross-section, finely stranded, min. (AWG)                                         | AWG 26               |
| Wire cross-section, finely stranded, max. (AWG)                                         | AWG 14              | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.15 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 1.5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0.15 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1.5 mm <sup>2</sup> | Twin wire-end ferrules, min.                                                            | 0.5 mm <sup>2</sup>  |
| Twin wire-end ferrules, max.                                                            | 1 mm <sup>2</sup>   | Blade size                                                                              | 0.4 x 2.0 mm         |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ECLASS 9.0  | 27-37-16-01 | ECLASS 9.1  | 27-37-16-01 |
| ECLASS 10.0 | 27-37-16-01 | ECLASS 11.0 | 27-37-16-01 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E141197 |

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## Technical data

### Downloads

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                    |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert – multilingual</a>           |
| Brochure/Catalogue                          | <a href="#">Catalogues in PDF-format</a>                                |

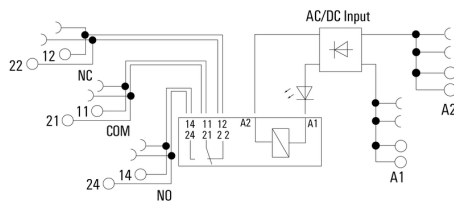
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## Drawings

### Wiring diagram



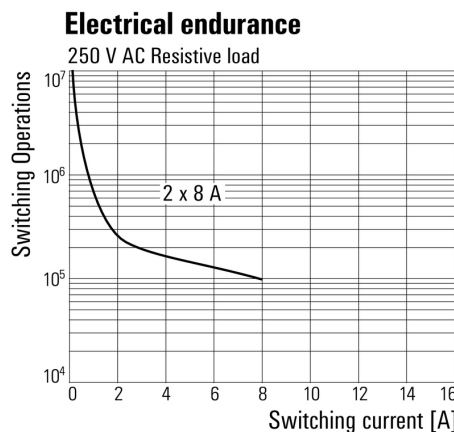
### Graph



DC load limit curve

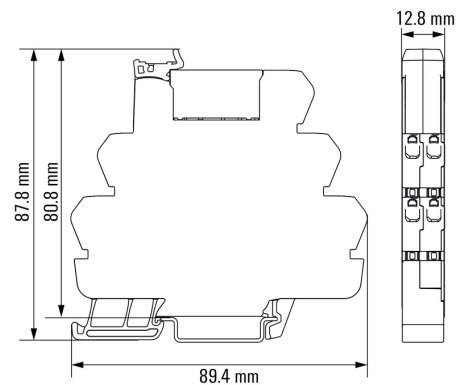
Resistive load

### Graph



Electrical service life  
230 V AC resistive load  
230 V AC resistive load

### Dimensional drawing



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## Drawings

### Miscellaneous

### Type code TERMSERIES electromechanical relay versions



Type codes