

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

Postfach 3030

32760 Detmold

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**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 available: No |
| Order No.  | <a href="#">2618560000</a>                                                                                                                                                            |
| Type       | TRP 48VUC 2CO AU                                                                                                                                                                      |
| GTIN (EAN) | 4050118670271                                                                                                                                                                         |
| Qty.       | 10 pc(s).                                                                                                                                                                             |

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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  |
| Width      | 12.8 mm | Width (inches)  | 0.504 inch |
| Net weight | 57 g    |                 |            |

## 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

|                                    |                                                      |                                    |        |
|------------------------------------|------------------------------------------------------|------------------------------------|--------|
| 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

|                                                                                   |                                  |                                       |                                    |
|-----------------------------------------------------------------------------------|----------------------------------|---------------------------------------|------------------------------------|
| Rated control voltage                                                             | 48 V UC ± 10 %                   | Rated current AC                      | 9 mA                               |
| Rated current DC                                                                  | 7 mA                             | Power rating                          | 340 mW / 0.4 VA                    |
| Pull-in/drop-out voltage, typ.                                                    | 29 V / 11 V AC<br>33 V / 11 V DC | Pull-in/drop-out current, typ.        | 6 mA / 3 mA AC<br>5 mA / 1.5 mA DC |
| Status indicator                                                                  | Green LED                        | Protective circuit                    | Rectifier                          |
| Coil voltage of the replacement relay<br>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, 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 gold-plated) |
| Mechanical service life                 | 30 x 10 <sup>6</sup> switching cycles | Min. switching power                    | 1 mA @ 1 V                      |

## General data

|                                      |                           |                |  |
|--------------------------------------|---------------------------|----------------|--|
| Operating altitude                   | ≤ 2000 m, above sea level |                |  |
| 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            |  |
|                                      | Component                 | Pusher         |  |
|                                      | UL94 flammability rating  | V-0            |  |

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## Technical data

## Insulation coordination

|                                                  |                                 |                                                               |                              |
|--------------------------------------------------|---------------------------------|---------------------------------------------------------------|------------------------------|
| Rated voltage                                    | 300 V                           | Pollution severity                                            | www.weidmuller.com           |
| Surge voltage category                           | III                             | 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. | Type of isolation at input and output                         | reinforced insulation        |
| Dielectric strength of neighbouring contacts     | 2.5 kV <sub>eff</sub> / 1 Min.  | Type of isolation at neighbouring contacts                    | Basic insulation             |
| 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)                | Protection degree                                             | IP20                         |

## Further details of approvals / standards

|                         |             |                         |            |
|-------------------------|-------------|-------------------------|------------|
| Standards               | IEC 61810-1 | 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. | 0.14 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.                              | 0.14 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    |
| ETIM 8.0    | 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 | ECLASS 12.0 | 27-37-16-01 |

## Approvals

Approvals



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

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Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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## Technical data

### Downloads

Approval/Certificate/Document of  
Conformity

[EU Konformitätserklärung / EU Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)

Engineering Data

[EPLAN](#)

User Documentation

[Beipackzettel / Package Insert – multilingual](#)

Catalogues

[Catalogues in PDF-format](#)

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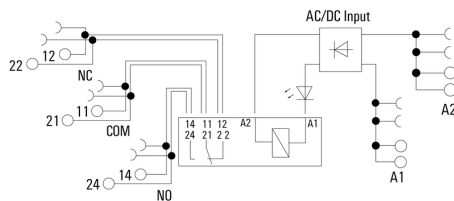
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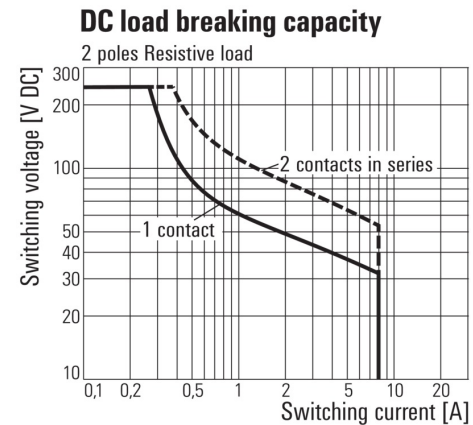
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## Drawings

## Wiring diagram



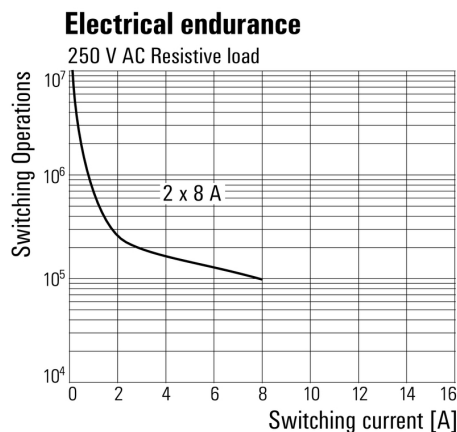
## Graph



DC load limit curve

Resistive load

## Graph



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

## Dimensional drawing

