

**TRS 24VDC 1CO****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

- 1 CO contact
- 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: 1, CO contact AgNi, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection |
| Order No.  | <a href="#">1122770000</a>                                                                                                                              |
| Type       | TRS 24VDC 1CO                                                                                                                                           |
| GTIN (EAN) | 4032248904808                                                                                                                                           |
| Qty.       | 10 pc(s).                                                                                                                                               |

Creation date March 23, 2021 12:54:08 AM CET

Catalogue status 12.03.2021 / 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         | 89.6 mm    | Height (inches) | 3.528 inch |
| Net weight     | 33 g       | Width           | 6.4 mm     |
| Width (inches) | 0.252 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 |                       |                |

### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

### Rated data UL

|                                    |                                                      |                                         |        |
|------------------------------------|------------------------------------------------------|-----------------------------------------|--------|
| Operating altitude                 | ≤ 2000 m, above sea level                            | 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,<br>flexible copper conductor | Tightening torque, max.                 | 0.4 Nm |
| Pollution severity level           | 2                                                    |                                         |        |

### Control side

|                                       |                  |                                                                                   |                                                     |
|---------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|
| Coil voltage of the replacement relay | 24 V DC          | Coil voltage of the replacement relay<br>deviating from the rated control voltage | No                                                  |
| Power rating                          | 280 mW           | Protective circuit                                                                | Free-wheeling diode,<br>Reverse polarity protection |
| Pull-in/drop-out current, typ.        | 7.5 mA / 1 mA DC | Pull-in/drop-out voltage, typ.                                                    | 16 V / 3 V DC                                       |
| Rated control voltage                 | 24 V DC ± 20 %   | Rated current DC                                                                  | 11.5 mA                                             |
| Status indicator                      | Green LED        |                                                                                   |                                                     |

### Load side

|                                         |                                            |                            |              |
|-----------------------------------------|--------------------------------------------|----------------------------|--------------|
| AC switching capacity (resistive), max. | 1500 VA                                    | Continuous current         | 6 A          |
| DC switching capacity (resistive), max. | 144 W @ 24 V                               | Inrush current             | 20 A / 20 ms |
| Max. switching frequency at rated load  | 0.1 Hz                                     | Max. switching voltage, DC | 250 V        |
| Min. switching power                    | 1 mA @ 24 V, 10 mA @ 12 V,<br>100 mA @ 5 V | Rated switching voltage    | 250 V AC     |
| Switch-off delay                        | ≤ 15 ms                                    | Switch-on delay            | ≤ 6 ms       |

### Contact data

|              |                     |                         |                                      |
|--------------|---------------------|-------------------------|--------------------------------------|
| Contact type | 1 CO contact (AgNi) | Mechanical service life | 5 x 10 <sup>6</sup> switching cycles |
|--------------|---------------------|-------------------------|--------------------------------------|

### General data

|                                      |       |
|--------------------------------------|-------|
| Rail                                 | TS 35 |
| Test button                          | No    |
| Mechanical switch position indicator | No    |
| Colour                               | black |

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|                                    |                          |                |
|------------------------------------|--------------------------|----------------|
| UL94 flammability rating component | Component                | Housing        |
|                                    | UL94 flammability rating | V-0            |
|                                    | Component                | Retaining clip |
|                                    | UL94 flammability rating | V-0            |

## Insulation coordination

|                                                |                              |                                     |                              |
|------------------------------------------------|------------------------------|-------------------------------------|------------------------------|
| Creepage and clearance distance input – output | ≥ 5.5 mm                     | Dielectric strength of open contact | 1 kV <sub>eff</sub> / 1 min  |
| Dielectric strength to mounting rail           | 4 kV <sub>eff</sub> / 1 Min. | Dielectric strength, Input/Output   | 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                          |                                     |                              |

## 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                                                                  | Screw connection     | Stripping length, rated connection                                                      | 8 mm                |
| Tightening torque, max.                                                                 | 0.4 Nm               | 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. | 0.25 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0.25 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 2.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, two clampable wires, min.               | 0.5 mm <sup>2</sup>  | Wire cross-section, finely stranded, two clampable wires, max.                          | 1 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                                                                              | size PHO             | Gauge to IEC 60947-1                                                                    | A1, B1              |

## 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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### Downloads

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                    |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert – multilingual</a>           |

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## Drawings

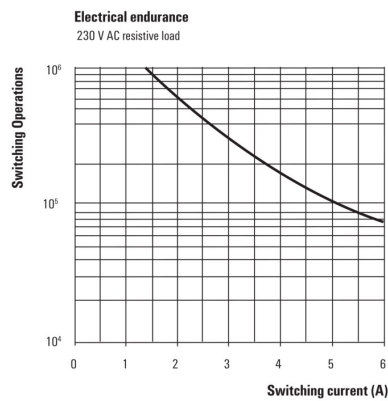
### Wiring diagram



### Graph



### 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