

## TRS 12VDC 1CO C1D2

**Weidmüller Interface GmbH & Co. KG**

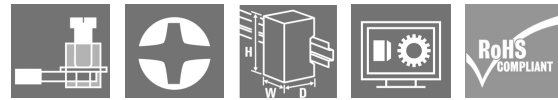
Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

### Product image



Similar to illustration

- 1 CO contact
- Contact material: AgNi
- C1D2 approved, for use in explosion areas
- Unique multi-voltage input from 24 to 230 V UC
- Input voltages from 12 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: 12 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection, Test button available: No |
| Order No.  | <a href="#">1984560000</a>   |
| Type       | TRS 12VDC 1CO C1D2   |
| GTIN (EAN) | 4050118375244  |
| Qty.       | 10 pc(s).  |

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Catalogue status 27.01.2024 / 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 |
| Width      | 6.4 mm  | Width (inches)  | 0.252 inch |
| Net weight | 33 g    |                 |            |

### Temperatures

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

### Rated data UL

|   |  |                                    |        |
|---|--|------------------------------------|--------|
| Ambient temperature (operational), max. | 60 °C  | Temperature class                  | T5     |
| 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

|                                       |   |   |           |
|---------------------------------------|---|---|-----------|
| Rated control voltage                 | 12 V DC ±20 %                                       | Rated current DC  | 18 mA     |
| Power rating                          | 210 mW  | Status indicator  | Green LED |
| Protective circuit                    | Free-wheeling diode,<br>Reverse polarity protection | Coil voltage of the replacement relay<br>deviating from the rated control voltage | No        |
| Coil voltage of the replacement relay | 12 V DC   |   |           |

### Load side

|   |  |   |                                      |
|---|--|---|--------------------------------------|
| Rated switching voltage                 | 250 V AC                                   | Continuous current                      | 6 A                                  |
| Max. switching frequency at rated load  | 0.1 Hz                                     | Max. switching voltage, AC              | 250 V                                |
| Max. switching voltage, DC              | 250 V                                      | Inrush current                          | 20 A / 20 ms                         |
| AC switching capacity (resistive), max. | 1500 VA                                    | DC switching capacity (resistive), max. | 144 W @ 24 V                         |
| Switch-on delay                         | ≤ 6 ms                                     | Switch-off delay                        | ≤ 8 ms                               |
| Contact type                            | 1 CO contact (AgNi)                        | Mechanical service life                 | 5 x 10 <sup>6</sup> switching cycles |
| Min. switching power                    | 1 mA @ 24 V, 10 mA @ 12 V,<br>100 mA @ 5 V |   |                                      |

### General data

|                                      |                           |                |  |
|--------------------------------------|---------------------------|----------------|--|
| Operating altitude                   | ≤ 2000 m, above sea level |                |  |
| Version                              | cULus C1D2                |                |  |
| 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            |  |

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### 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 | 4 kV <sub>eff</sub> / 1 Min. | Type of isolation at input and output                         | reinforced 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                         |

### 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 16              |
| 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.                              | 1.5 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             |   |                     |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | EC001437    | ETIM 9.0    | 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 | ECLASS 13.0 | 27371601    |

### Environmental Product Compliance

|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1                       |
| SCIP       | 9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9 |

### Approvals

Approvals



|                           |            |
|---------------------------|------------|
| ROHS                      | Conform    |
| UL File Number Search     | UL Website |
| Certificate no. (cULusEX) | E324123    |

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**Data sheet****TRS 12VDC 1CO C1D2**

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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="#">CAD data – STEP</a>   |
| Engineering Data                            | <a href="#">Zuken E3.S</a>  |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert – multilingual</a>           |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |
| Brochures                                   |   |

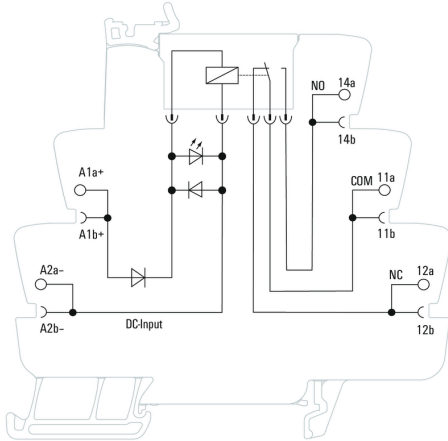
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**Drawings**

**Wiring diagram**



**Graph**



DC load limit curve

**Graph**



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

**Dimensional drawing**



**Miscellaneous**

**Type code TERMSERIES electromechanical relay versions**



Type codes