

**TRS 12VDC 1COAU C1D2****Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

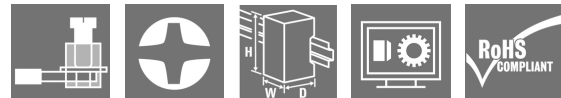
32760 Detmold

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**Product image**

Similar to illustration

- 1 CO contact
- Contact material: AgNi 5µm Au
- 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 gold-plated, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection, Test button available: No |
| Order No.  | <a href="#">1984620000</a>                                                                                                                                                                     |
| Type       | TRS 12VDC 1COAU C1D2                                                                                                                                                                           |
| GTIN (EAN) | 4050118375701                                                                                                                                                                                  |
| Qty.       | 10 pc(s).                                                                                                                                                                                      |

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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>u</sub> = 40°C, without<br>condensation |                       |                |

### Environmental Product Compliance

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

### 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                                              | Pull-in/drop-out voltage, typ.                                                    | 9 V / 2 V DC |
| Pull-in/drop-out current, typ.        | 11.5 mA / 2 mA DC                                   | 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, 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 gold-plated) |
| Mechanical service life                 | 5 x 10 <sup>6</sup> switching cycles | Min. switching power                    | 1 mA @ 1 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                     |

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| UL94 flammability rating component | Component                | Housing                  |
|                                    | UL94 flammability rating | V-0 info@weidmueller.com |
|                                    | Component                | Retaining clip           |
|                                    | UL94 flammability rating | V-0 www.weidmueller.com  |

### 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                         |

### Further details of approvals / standards

|           |             |
|-----------|-------------|
| Standards | IEC 61810-1 |
|-----------|-------------|

### 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             | Gauge to IEC 60947-1                                                                    | A1, B1              |

### 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 |

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Approvals



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

**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="#">EPLAN, WSCAD, 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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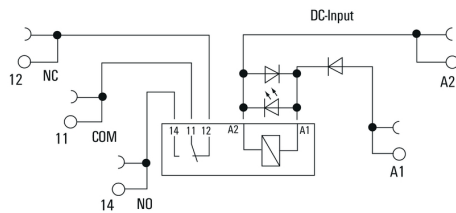
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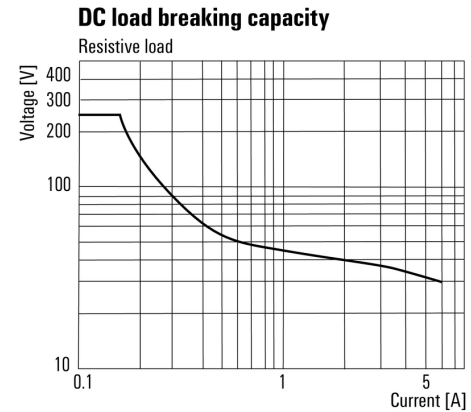
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## Drawings

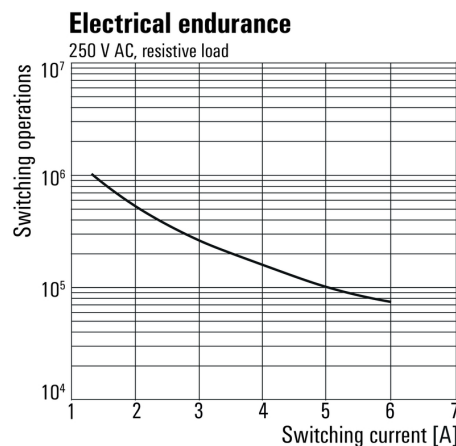
### Wiring diagram



### Graph

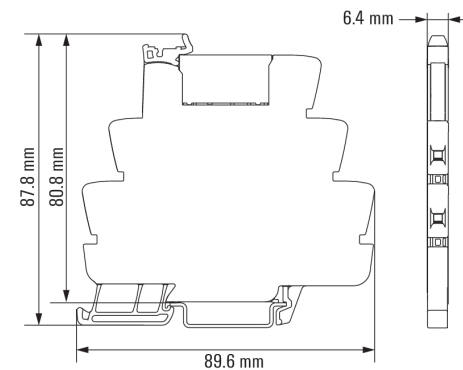


### Graph



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

### Dimensional drawing



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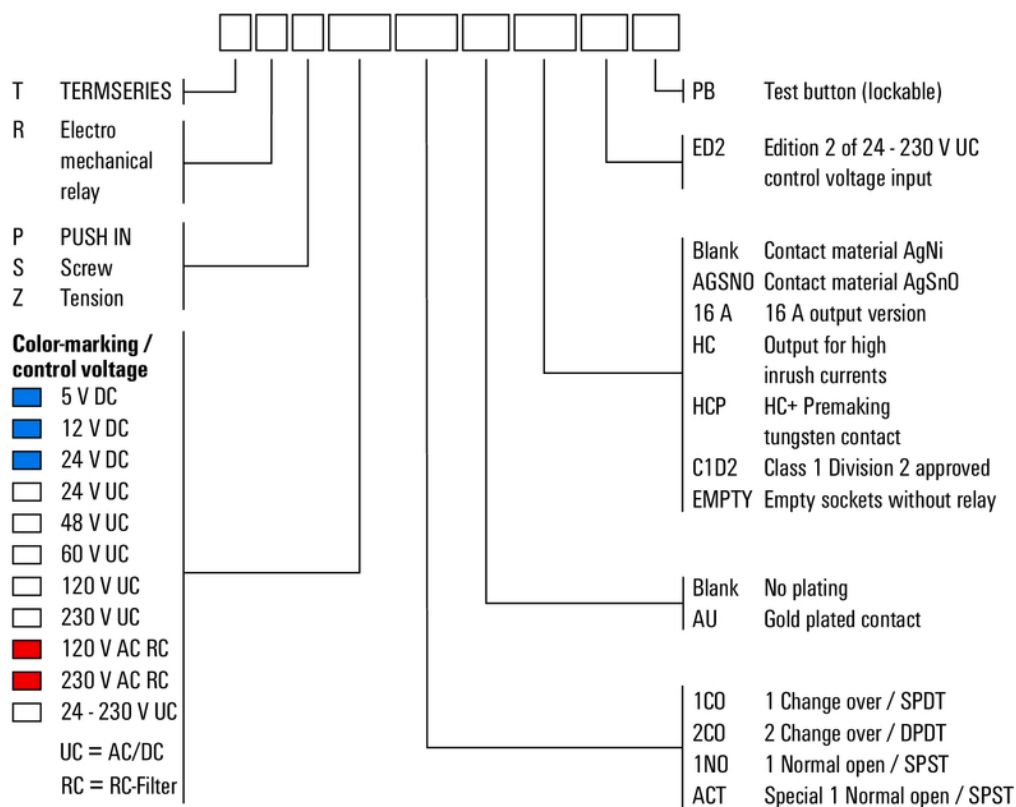
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## Drawings

### Miscellaneous

## Type code TERMSERIES electromechanical relay versions



Type codes