

## TERMSERIES TRS 24-230VUC 1CO AU

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
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### Product image



Similar to illustration

TERMSERIES relay module, complete modules consisting of

a relay and a base with AC/DC/UC coils, available in different versions:

- With screw and tension-clamp connection
- AgNi contact, optionally with hard gold-plated contacts
- 1 and 2 COs
- Optionally with multiple-voltage input: 24...230 V UC
- With various protective circuits in the input (free-wheel diode, RC element)
- Illuminated ejection lever

### General ordering data

|            |   |
|------------|---|
| Type       | TRS 24-230VUC 1CO AU  |
| Order No.  | <a href="#">1123090000</a>  |
| Version    | TERMSERIES, Relay module, Number of contacts: 1 CO contact AgNi 5µm Au, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Screw connection |
| GTIN (EAN) | 4032248905249   |
| Qty.       | 10 pc(s).   |

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**Technical data****Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 6.4 mm  | Width (inches)  | 0.252 inch |
| Height     | 89.6 mm | Height (inches) | 3.528 inch |
| Depth      | 87.8 mm | Depth (inches)  | 3.457 inch |
| Net weight | 38 g    |                 |            |

**Temperatures**

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

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**Rated data UL**

|   |        |                                    |  |
|---|--------|------------------------------------|--|
| Ambient temperature (operational), max. | 40 °C  | Connection cross-section AWG, min. | AWG 26   |
| Connection cross-section AWG, max.      |        | Type of conductor                  | rigid copper conductor,<br>flexible copper conductor |
| Tightening torque, max.                 | 0.4 Nm | Pollution severity level           | 2  |

**Input**

|   |   |                                       |  |
|---|---|---------------------------------------|--|
| Rated control voltage   | 24...230 V UC ± 10 %                          | Rated current AC                      | 27.1 mA AC @ 24 V AC,<br>4.8 mA AC @ 230 V AC                                      |
| Rated current DC  | 25.6 mA DC @ 24 V DC,<br>2.5 mA DC @ 230 V DC | Power rating                          | 610 mW @ 24 V DC, 650<br>mVA @ 24 V AC, 575 mW<br>@ 230 V DC, 1.1 VA @<br>230 V AC |
| Pull-in/drop-out voltage, typ.  | 13 V / 7 V AC<br>13 V / 5 V DC                | Pull-in/drop-out current, typ.        | 28.5 mA / 11 mA AC<br>23 mA / 6.5 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 | 24 V DC  |

**Output**

|   |              |   |            |
|---|--------------|---|------------|
| Rated switching voltage                 | 250 V AC     | Max. switching voltage, AC              | 250 V      |
| Max. switching voltage, DC              | 250 V        | Continuous current                      | 6 A        |
| 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                         | ≤ 30 ms    |
| Switch-off delay                        | < 140 ms     | Min. switching power                    | 1 mA @ 1 V |
| Max. switching frequency at rated load  | 0.1 Hz       |   |            |

**Contact data**

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

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**Technical data****General data**

|                                      |       |             |       |
|--------------------------------------|-------|-------------|-------|
| Rail                                 | TS 35 | Test button | No    |
| Mechanical switch position indicator | No    | Colour      | Black |
| UL 94 flammability rating            | V-0   |             |       |

**Insulation coordination**

|                                     |                              |  |                              |
|-------------------------------------|------------------------------|--|------------------------------|
| Rated voltage                       | 300 V                        | Surge voltage category                         | III                          |
| Pollution severity                  | 2                            | Protection degree                              | IP20                         |
| Dielectric strength, Input/Output   | 4 kV <sub>eff</sub> / 1 Min. | 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. |
| Impulse withstand voltage           | 6 kV (1.2/50 µs)             |  |                              |

**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 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              |

**Ratings IECEx/ATEX/cUL**

|                         |         |
|-------------------------|---------|
| Certificate no. (cULus) | E141197 |
|-------------------------|---------|

**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 |            |             |

**Data sheet****TERMSERIES  
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Approvals



ROHS

Conform

**Downloads**

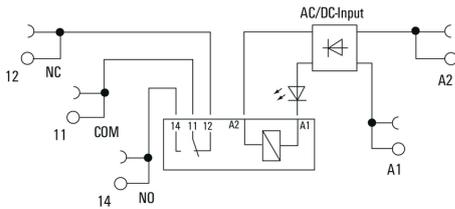
|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Brochure/Catalogue                          | <a href="#">CAT 4.2 ELECTR 18/19 EN</a>                                 |
| Engineering Data                            | <a href="#">EPLAN_WSCAD_Zuken E3.S</a>                                  |
| Engineering Data                            | <a href="#">STEP</a>  |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert - multilingual</a>           |

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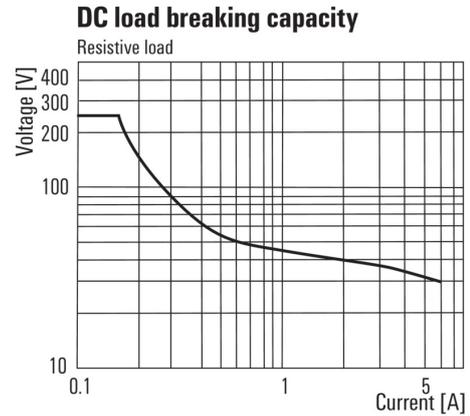
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**Drawings**

**Wiring diagram**

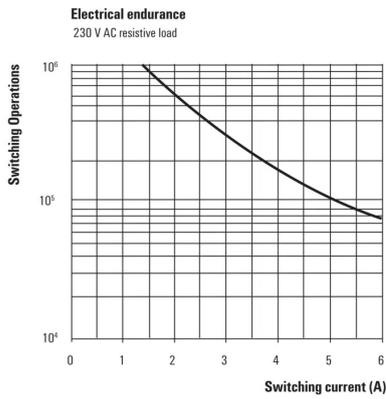


**Graph**



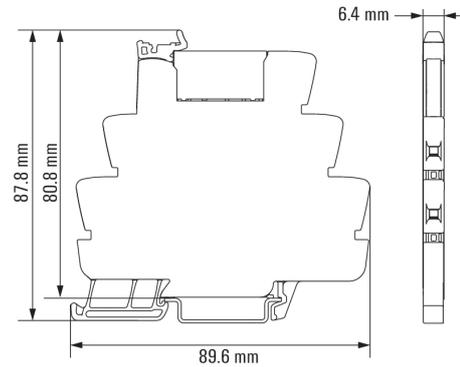
DC load limit curve

**Graph**



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

**Dimensional drawing**



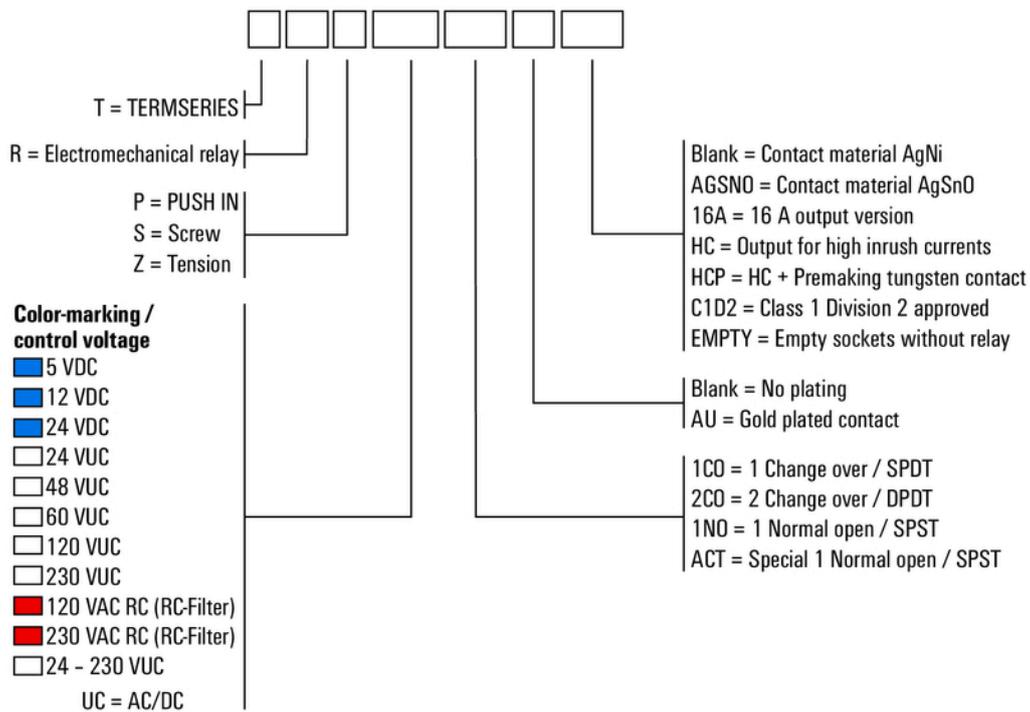
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**Drawings**

**Miscellaneous**

**Type code TERMSERIES electromechanical relay versions**



Type codes