# TRS 230VUC 1CO AGSNO

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image



Similar to illustration

- 1 CO contact
- Contact material: AgSnO
- 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 AgSnO, Rated control voltage: 230 V UC ±10%, Continuous current: 6 A, Screw connection, Test button available: No |
| Order No. | 2153590000 |
| Type | TRS 230VUC 1CO AGSNO |
| GTIN (EAN) | 4050118426847 |
| 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 | 31.06 g | | |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...60 °C |
| Humidity | 5-95% relative humidity, $T_u$ = 40°C, without condensation | | |

### Rated data UL

| | | | |
|---|---|---|---|
| Ambient temperature (operational), max. | 60 °C | Output current derating (ohmic) | 5 A @ 60 °C, 6 A @ 55 °C |
| Connection cross-section AWG, min. | AWG 26 | Connection cross-section AWG, max. | AWG 14 |
| Type of conductor | rigid copper conductor, flexible copper conductor | Tightening torque, max. | 0.4 Nm |
| Pollution severity level | 2 | | |

### Control side

| | | | |
|---|---|---|---|
| Rated control voltage | 230 V UC ±10% | Rated current AC | 3.5 mA |
| Rated current DC | 2.9 mA | Power rating | 670 mW, 805 mVA |
| Status indicator | Green LED | Protective circuit | Rectifier |
| Coil voltage of the replacement relay deviating from the rated control voltage | Yes | Coil voltage of the replacement relay | 60 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 | 30 A / 20 ms |
| AC switching capacity (resistive), max. | 1500 VA | DC switching capacity (resistive), max. | 144 W @ 24 V |
| Switch-on delay | ≤ 15 ms | Switch-off delay | ≤ 50 ms |
| Contact type | 1 CO contact (AgSnO) | Mechanical service life | 5 x $10^6$ switching cycles |
| Min. switching power | 100 mA @ 12 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 |

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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 $kV_{eff}$ / 1 Min. | Type of isolation at input and output | reinforced insulation |
| Dielectric strength of open contact | 1 $kV_{eff}$ / 1 min | Dielectric strength to mounting rail | 4 $kV_{eff}$ / 1 Min. |
| Impulse withstand voltage | 6 kV (1.2/50 µs) | Protection degree | IP20 |

### Further details of approvals / standards

| | | | |
|---|---|---|---|
| Certificate No. (DNV) | 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 mm² |
| Clamping range, min. | 0.14 mm² | Clamping range, max. | 2.5 mm² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 14 |
| Wire cross-section, solid, min. | 0.14 mm² | Wire cross-section, solid, max. | 2.5 mm² |
| 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 mm² | Wire connection cross section, finely stranded, max. | 2.5 mm² |
| 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 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.25 mm² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 1.5 mm² |
| Wire connection cross section, finely stranded, two clampable wires, min. | 0.5 mm² | Wire cross-section, finely stranded, two clampable wires, max. | 1 mm² |
| Blade size | SD 0.6 x 3.5 | | |

### 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 | 27-37-16-01 |
| ECLASS 14.0 | 27-37-16-01 | | |

### Environmental Product Compliance

| | |
|---|---|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9 |
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cl |

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### Approvals

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

### Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | Beipackzettel / Package Insert – multilingual |
| Catalogues | Catalogues in PDF-format |

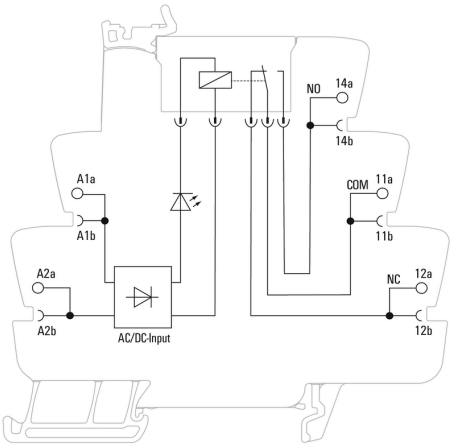
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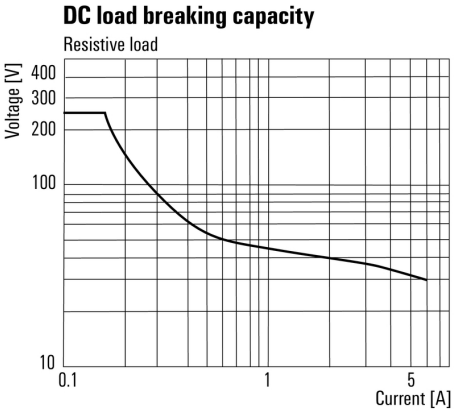
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## Drawings

### Wiring diagram

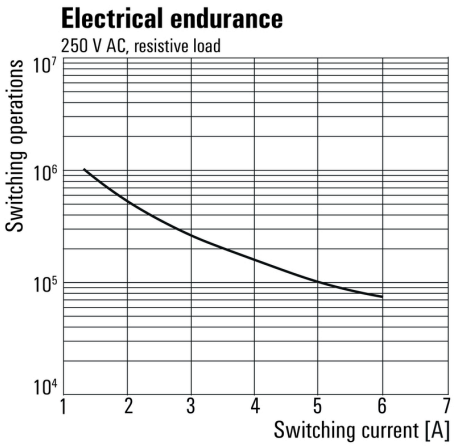



### Graph



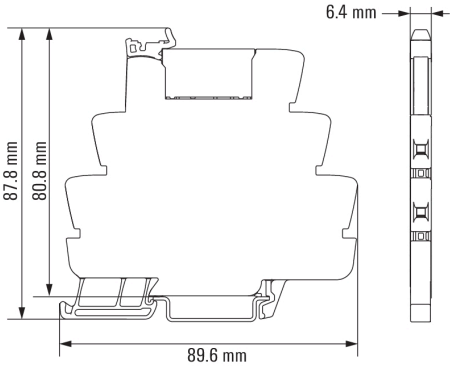

DC load limit curve
Resistive load

### Graph




Electrical service life230 V AC resistive load
230 V AC resistive load

### Dimensional drawing



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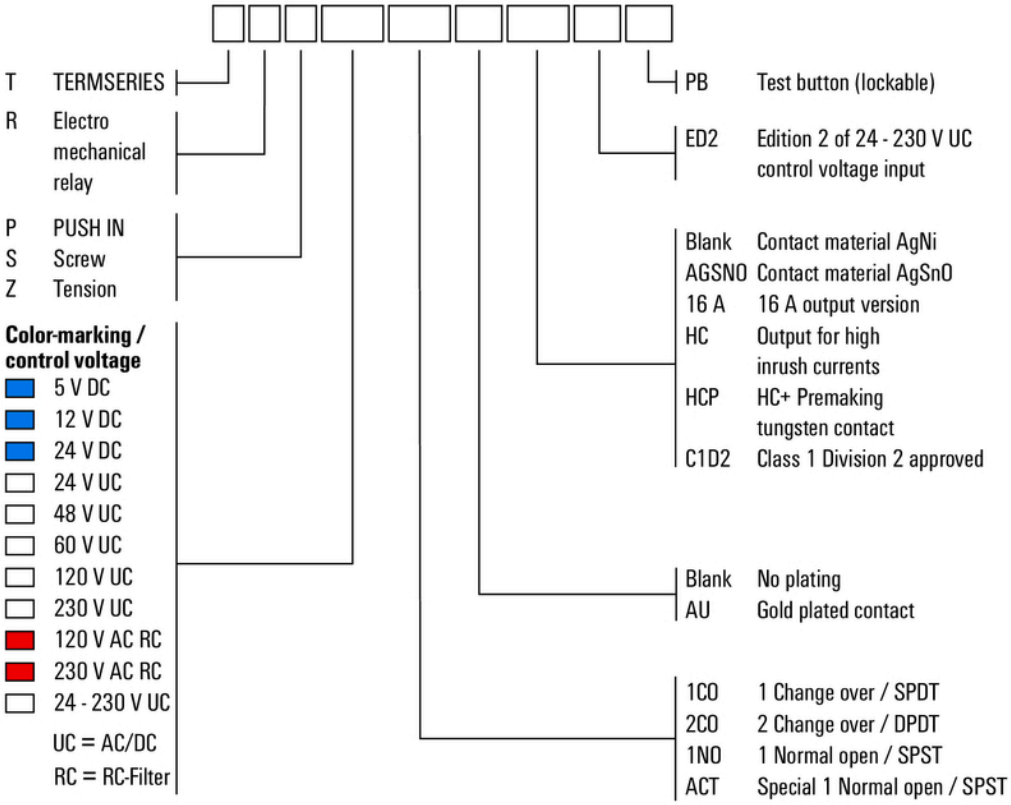
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## Drawings

### Miscellaneous

**Type code TERMSERIES electromechanical relay versions**




Type codes