

## TRPL 230VAC 1CO

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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



The all-rounder. Compact relay modules, 6 mm width with extensive accessories, maximum vibration resistance, and unlimited cross-connection possibilities.

- 1 CO contacts
- Contact material: AgNi
- Unique multi-voltage input from 12 to 60 V UC and 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-compact, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC $\pm 10\%$ , Continuous current: 6 A, PUSH IN, Test button available: No |
| Order No.  | <a href="#">2773830000</a>   |
| Type       | TRPL 230VAC 1CO  |
| GTIN (EAN) | 4064675037606  |
| Qty.       | 10 items   |

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 62.5 mm | Depth (inches)  | 2.4606 inch |
| Height     | 89.4 mm | Height (inches) | 3.5197 inch |
| Width      | 6.4 mm  | Width (inches)  | 0.252 inch  |
| Net weight | 29 g    |                 |             |

## Temperatures

|                       |                |                     |  |
|-----------------------|----------------|---------------------|--|
| Storage temperature   | -40 °C...85 °C | Ambient temperature | -40 °C...60 °C   |
| Operating temperature |                | Humidity            | 5-85% relative humidity,<br>Tu = 40°C, without<br>condensation |

## Environmental Product Compliance

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

## Control side

|                       |                |                  |            |
|-----------------------|----------------|------------------|------------|
| Rated control voltage | 230 V AC ±10 % | Rated current AC | 7.1 mA     |
| Power rating          | 1.63 VA        | Status indicator | Green LED  |
| Protective circuit    | Rectifier      | Input frequency  | 45 - 65 Hz |

## 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                         | ≤ 16 ms                                 | Switch-off delay                        | ≤ 20 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, 100 mA @ 5 V |   |                                      |

## General data

|                                      |                           |         |  |
|--------------------------------------|---------------------------|---------|--|
| Operating altitude                   | ≤ 2000 m, above sea level |         |  |
| Mounting 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     |  |

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|                          |                        |
|--------------------------|------------------------|
| Component                | Relay status indicator |
| UL94 flammability rating | V-2                    |
| Component                | Pusher                 |
| UL94 flammability rating | V-0                    |

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

## Further details of approvals / standards

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

## Connection data

|   |                     |   |                      |
|---|---------------------|---|----------------------|
| Wire connection method  | PUSH IN             | Stripping length, rated connection  | 9 mm                 |
| 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.   | 0.5 mm <sup>2</sup>  |
| Wire cross-section, solid, max.   | 1.5 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.                                    | 0.35 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. | 0.14 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 1.5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0.5 mm <sup>2</sup>  |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1.5 mm <sup>2</sup> | Blade size  | 0.6 x 3.5 mm         |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001437    | ETIM 9.0    | EC001437    |
| ETIM 10.0   | EC001437    | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

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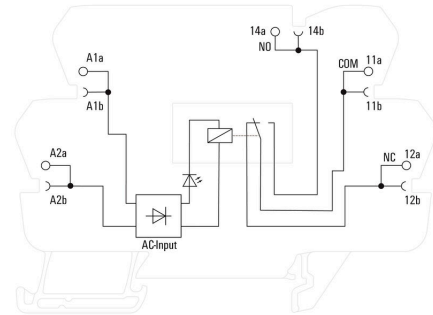
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Drawings

Similar to illustration



Wiring diagram



Graph



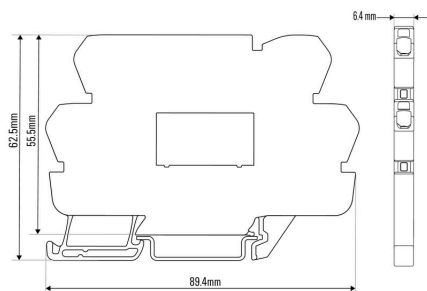
DC load limit curve Resistive load

Graph



Electrical service life 230 V AC resistive load

Dimensional drawing



Miscellaneous

**Type code electromechanical relay**



Type codes