

**TRP 120VUC 2CO AU****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

- 2 CO contacts
- Contact material: AgNi 5µm Au
- 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: 2, CO contact AgNi gold-plated, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 8 A, PUSH IN, Test button available: No |
| Order No.  | <a href="#">2618590000</a>                                                                                                                                                             |
| Type       | TRP 120VUC 2CO AU                                                                                                                                                                      |
| GTIN (EAN) | 4050118670240                                                                                                                                                                          |
| Qty.       | 10 pc(s).                                                                                                                                                                              |

Creation date May 16, 2025 4:17:39 AM CEST

Catalogue status 10.05.2025 / 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     | 89.4 mm | Height (inches) | 3.52 inch  |
| Width      | 12.8 mm | Width (inches)  | 0.504 inch |
| Net weight | 57 g    |                 |            |

## Temperatures

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

## Rated data UL

|                                    |                          |                                    |                                                   |
|------------------------------------|--------------------------|------------------------------------|---------------------------------------------------|
| Output current derating (ohmic)    | 6 A @ 60 °C, 8 A @ 50 °C | Connection cross-section AWG, min. | AWG 26                                            |
| Connection cross-section AWG, max. | AWG 14                   | Type of conductor                  | rigid copper conductor, flexible copper conductor |
| Pollution severity level           | 2                        |                                    |                                                   |

## Control side

|                                                                                |                 |                                       |                  |
|--------------------------------------------------------------------------------|-----------------|---------------------------------------|------------------|
| Rated control voltage                                                          | 120 V UC ± 10 % | Rated current AC                      | 3.5 mA           |
| Rated current DC                                                               | 3.5 mA          | Power rating                          | 420 mVA / 420 mW |
| 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 | 110 V DC         |

## Load side

|                                         |                                 |                                         |                                       |
|-----------------------------------------|---------------------------------|-----------------------------------------|---------------------------------------|
| Rated switching voltage                 | 250 V AC                        | Continuous current                      | 8 A                                   |
| Max. switching frequency at rated load  | 0.1 Hz                          | Max. switching voltage, AC              | 250 V                                 |
| Max. switching voltage, DC              | 250 V                           | Inrush current                          | 15 A / 4 s                            |
| AC switching capacity (resistive), max. | 2000 VA                         | DC switching capacity (resistive), max. | 192 W @ 24 V                          |
| Switch-on delay                         | ≤ 12 ms                         | Switch-off delay                        | ≤ 9 ms                                |
| Contact type                            | 2 CO contact (AgNi gold-plated) | Mechanical service life                 | 30 x 10 <sup>6</sup> switching cycles |
| Min. switching power                    | 1 mA @ 1 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            |  |
|                                      | Component                 | Pusher         |  |
|                                      | 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 | 3.51 kV <sub>eff</sub> / 1 min. | Type of isolation at input and output                         | reinforced insulation        |
| Dielectric strength of neighbouring contacts     | 2.5 kV <sub>eff</sub> / 1 Min.  | Type of isolation at neighbouring contacts                    | Basic 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

|                       |            |                         |           |
|-----------------------|------------|-------------------------|-----------|
| Certificate No. (DNV) | TAA00001E5 | Certificate no. (cULus) | E 14 1197 |
|-----------------------|------------|-------------------------|-----------|

## 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.                                                         | 0.14 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 16              | 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. | 0.14 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.                              | 0.14 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1.5 mm <sup>2</sup> | Blade size                                                                              | 0.4 x 2.0 mm         |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | EC001437    | ETIM 9.0    | EC001437    |
| ETIM 10.0   | 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 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

## 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 |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Approvals**

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UL File Number Search   | UL Website                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Certificate no. (cULus) | E141197                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Downloads**

|                                             |                                                                                                              |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity Confirmation of Standards EN 45545-2</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                              |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert – multilingual</a>                                                |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                     |

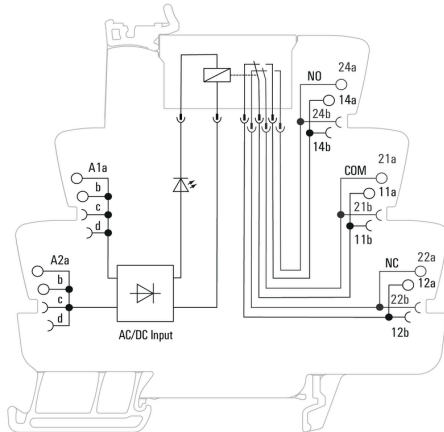
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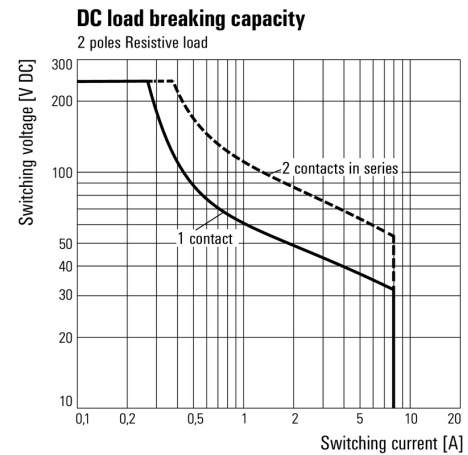
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## Drawings

## Wiring diagram



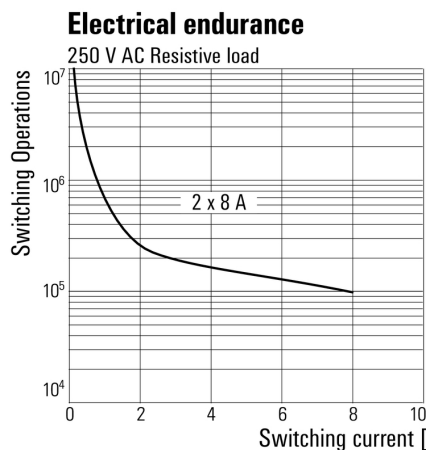
## Graph



DC load limit curve

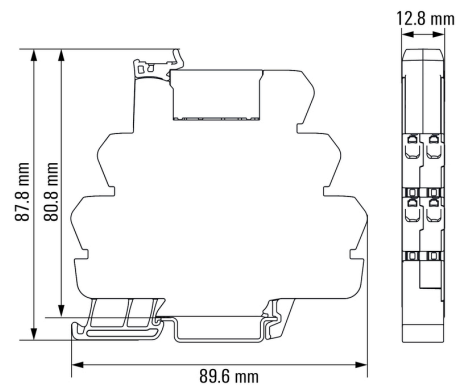
Resistive load

## Graph



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

## Dimensional drawing



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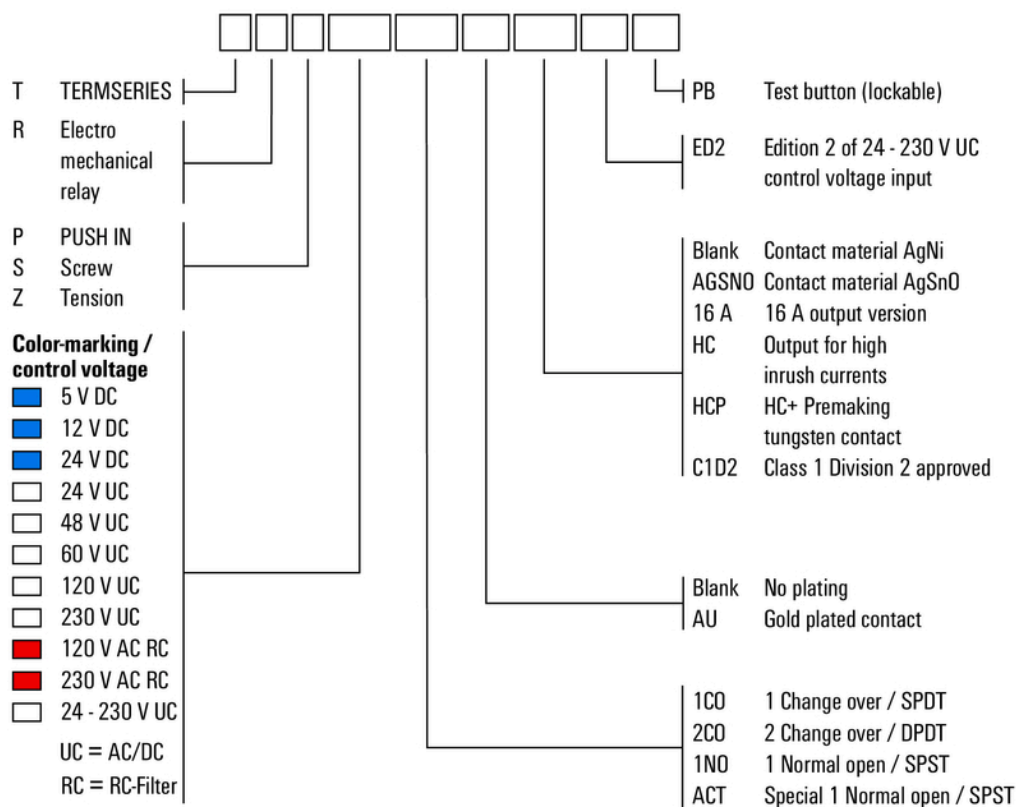
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## Drawings

## Miscellaneous

## Type code TERMSERIES electromechanical relay versions



Type codes