

**TOP 120VUC 24VDC2A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Similar to illustration

- 1 NO contact (MOS-FET)
- 6.4 mm wide
- 2 A DC output current
- 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, Solid-state relay, 1 NO contact (MOS-FET), Rated control voltage: 120 V UC $\pm 10\%$ , Rated switching voltage: 3...33 V DC, Continuous current: 2 A, PUSH IN |
| Order No.  | <a href="#">2618770000</a>                                                                                                                                                 |
| Type       | TOP 120VUC 24VDC2A                                                                                                                                                         |
| GTIN (EAN) | 4050118670066                                                                                                                                                              |
| Qty.       | 10 pc(s).                                                                                                                                                                  |

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Catalogue status 09.04.2021 / 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  |
| Net weight     | 29 g       | Width           | 6.4 mm     |
| Width (inches) | 0.252 inch |                 |            |

## Temperatures

|                     |                                                                            |                       |                |
|---------------------|----------------------------------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...70 °C                                                             | Operating temperature | -20 °C...60 °C |
| Humidity            | 5-95% relative humidity,<br>T <sub>u</sub> = 40°C, without<br>condensation |                       |                |

## Probability of failure

|      |           |
|------|-----------|
| MTTF | 676 Years |
|------|-----------|

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## Rated data UL

|                                               |                                    |                                                      |
|-----------------------------------------------|------------------------------------|------------------------------------------------------|
| Ambient temperature (operational), max. 60 °C | Connection cross-section AWG, min. | AWG 26                                               |
| Connection cross-section AWG, max.            | Type of conductor                  | rigid copper conductor,<br>flexible copper conductor |
|                                               |                                    |                                                      |
| Pollution severity level                      |                                    |                                                      |

## Control side

|                                       |                                        |                                                                                   |                                  |
|---------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|
| Coil voltage of the replacement relay | 60 V DC                                | Coil voltage of the replacement relay<br>deviating from the rated control voltage | Yes                              |
| Nominal control current               | 4.1 mA AC (±10 %), 2.6<br>mA DC (±10%) | Power rating                                                                      | 0.49 VA, 0.31 W                  |
| Protective circuit                    | Rectifier                              | Pull-in/drop-out voltage, typ.                                                    | 83 V / 61 V AC<br>91 V / 72 V DC |
| Rated control voltage                 | 120 V UC ± 10 %                        | Status indicator                                                                  | Green LED                        |

## Load side

|                                                  |           |                                                  |              |
|--------------------------------------------------|-----------|--------------------------------------------------|--------------|
| Continuous current                               | 2 A       | Inrush current                                   | 15 A / 10 ms |
| Leakage current                                  | < 10 µA   | Min. switching current                           | 5 mA         |
| Protective circuit, load side                    | Rectifier | Rated switching voltage                          | 3...33 V DC  |
| Short-circuit-proof                              | No        | Switch-off delay                                 | ≤ 16 ms      |
| Switch-on delay                                  | < 6.5 ms  | Voltage drop at max. load                        | ≤ 120 mV     |
| max. switching frequency (AC control<br>voltage) | 10 Hz     | max. switching frequency (DC control<br>voltage) | 10 Hz        |

## Contact data

|              |                        |
|--------------|------------------------|
| Contact type | 1 NO contact (MOS-FET) |
|--------------|------------------------|

## General data

|             |       |
|-------------|-------|
| Rail        | TS 35 |
| Test button | No    |
| Colour      | black |

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|                                    |                          |                |
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| 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            |

## Insulation coordination

|                                                               |                              |                                                  |                       |
|---------------------------------------------------------------|------------------------------|--------------------------------------------------|-----------------------|
| Clearance and creepage distances for control side - load side | ≥ 5.5 mm                     | Dielectric strength for control side - load side | 2.5 kV <sub>eff</sub> |
| Dielectric strength to mounting rail                          | 4 kV <sub>eff</sub> / 1 Min. | Impulse withstand voltage                        | 6 kV (1.2/50 μs)      |
| Pollution severity                                            | 2                            | Protection degree                                | IP20                  |
| Rated voltage                                                 | 300 V                        | Surge voltage category                           | III                   |

## Further details of approvals / standards

|                         |              |                         |            |
|-------------------------|--------------|-------------------------|------------|
| Standards               | DIN EN 50178 | Certificate No. (DNVGL) | TAA00001E5 |
| 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.                                                         | 0.14 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 14              | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.15 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.                              | 0.15 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1.5 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                                                                              | 0.4 x 2.0 mm         |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001504    | ETIM 7.0    | EC001504    |
| ECLASS 9.0  | 27-37-16-04 | ECLASS 9.1  | 27-37-16-04 |
| ECLASS 10.0 | 27-37-16-04 | ECLASS 11.0 | 27-37-16-04 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E141197 |

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## Technical data

### Downloads

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                    |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert – multilingual</a>           |
| Brochure/Catalogue                          | <a href="#">Catalogues in PDF-format</a>                                |

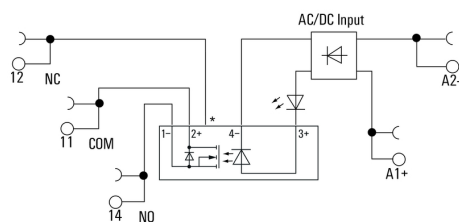
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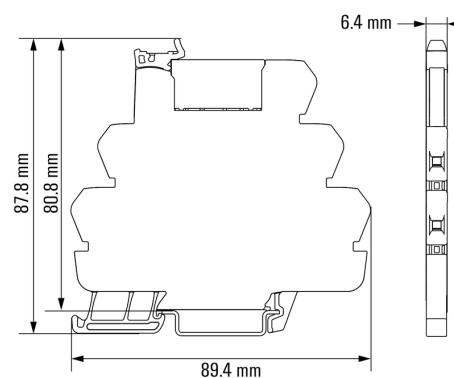
## Drawings

### Wiring diagram



\*Contact is assembled in socket but not used with solid-state relays

### Dimensional drawing



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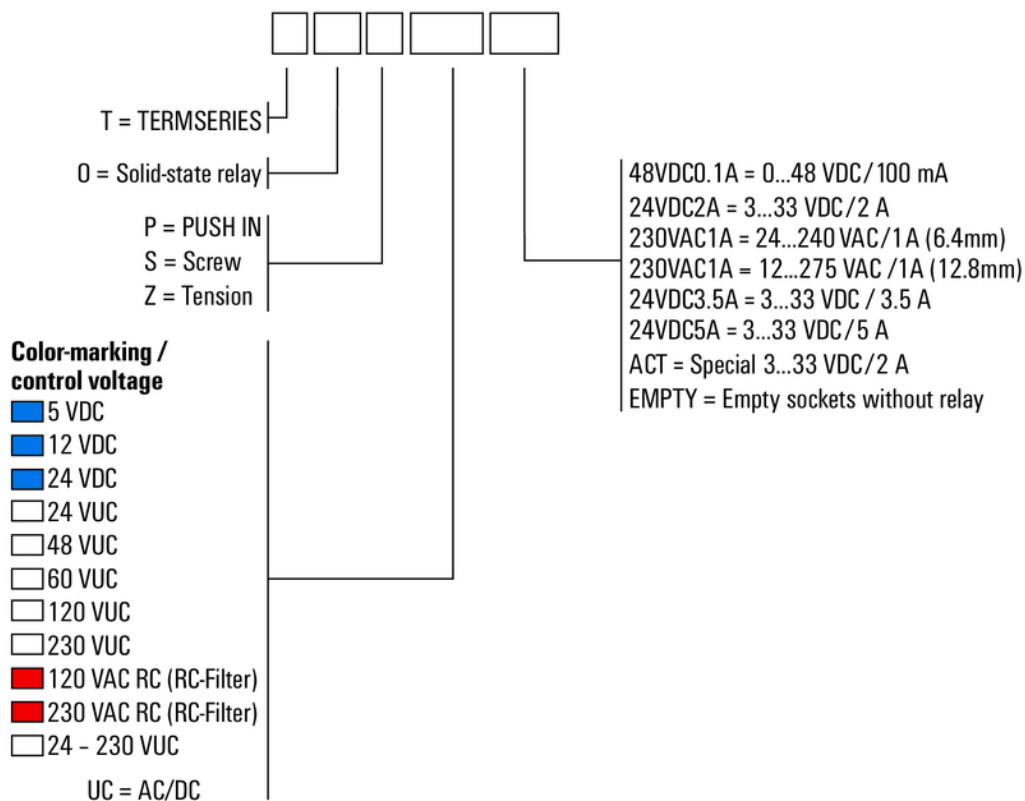
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## Drawings

## Miscellaneous

## Type code TERMSERIES solid-state relay versions



Type codes