# MACX-TR-1T-MUL-PT - Timer relay

1096431

https://www.phoenixcontact.com/us/products/1096431

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CRA-READY



Multifunctional timer relay, 24 V AC/DC … 240 V AC/DC wide-range supply, with 13 functions, 1 adjustable time, in addition to Ip and Ii functions. Time range adjustable (10 ms ... 999 h:59 min), two configuration possibilities, password protection, supporting dry contacts, PNP and NPN proximity switch inputs, 2 PDTs, plug-in connection.

## Commercial data

| | |
|---|---|
| Item number | 1096431 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C443 |
| Product key | DK6621 |
| GTIN | 4055626932156 |
| Weight per piece (including packing) | 174 g |
| Weight per piece (excluding packing) | 118 g |
| Customs tariff number | 85364190 |
| Country of origin | CN |

# Technical data

## Notes

Note on application

| | |
|---|---|
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

## Product properties

| | |
|---|---|
| Product type | Timer relay |
| Mechanical service life | approx. 3x $10^7$ cycles |

Insulation characteristics

| | |
|---|---|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 3 |

## Electrical properties

| | |
|---|---|
| Service life electrical | approx. 1x $10^5$ cycles, resistive load 2000 V A |
| Nominal frequency | 48 Hz ... 63 Hz |
| Nominal power consumption | 2.5 VA (0.8 W) |
| Rated insulation voltage | 300 V AC |
| Dielectric strength | 2 kV ((2 mA, 60 s) (IEC 60947-5-1)) |

## Input data

| | |
|---|---|
| Nominal power consumption | 2.5 VA (0.8 W) |
| Input voltage range | 24 V AC/DC ... 240 V AC/DC (-15 % ... +10 %) |
| Temperature coefficient, typical | ≤ 0.01 %/°C |
| Recovery time | 100 ms |
| Response delay function | yes |
| Release delay function | yes |
| Passing make contact function | yes |
| Passing break contact function | no |
| Star/delta function | no |
| Pulse-forming function | no |
| Flashing function beginning with pause, fixed time | no |
| Clocking function beginning with pause, variable | yes |
| Flashing function beginning with pulse, fixed time | yes |
| Clocking function beginning with pulse, variable | yes |
| Setting range time | 10 ms ... 59999 min (10 ms ... 999 h 59 min.) |
| Setting accuracy | ≤ 0.5 % ( > 1 s) |
| Repeat accuracy | ≤ 0.05 % ( > 1 s) |

Control

| | |
|---|---|
| Connection name | Non-floating, terminals A1-B1 |
| Control pulse length | 50 ms |

## Output data

Switching

| | |
|---|---|
| Contact switching type | 2 floating changeover contacts |
| Contact material | AgNi (90/10) |
| Maximum switching voltage | 400 V AC |
| Interrupting rating (ohmic load) max. | 2000 VA (8 A / 250 V AC) |
| Output fuse | 8 A (fast-blow) |

## Connection data

| | |
|---|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section AWG | 24 ... 14 |

## Dimensions

| | |
|---|---|
| Width | 22.5 mm |
| Height | 109 mm |
| Depth | 114 mm |

## Material specifications

| | |
|---|---|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 |
| Housing insulation material | PBT |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude | ≤ 2000 m |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |

## Approvals

CE

| | |
|---|---|
| Identification | CE-compliant |

UL, USA/Canada

| | |
|---|---|
| Identification | UL/C-UL Listed UL 508 |

CCC

| | |
|---|---|
| Identification | GB/T 14048.5 |

## EMC data

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC directive |
| Low Voltage Directive | Conformance with Low Voltage Directive |
| Noise immunity | EN 61000-6-2 |
| Impulse withstand voltage | 4 kV (1.2/50 µs, IEC 60947-5-1) |

Noise emission

| | |
|---|---|
| Standards/regulations | EN 61000-6-4 |

## Standards and regulations

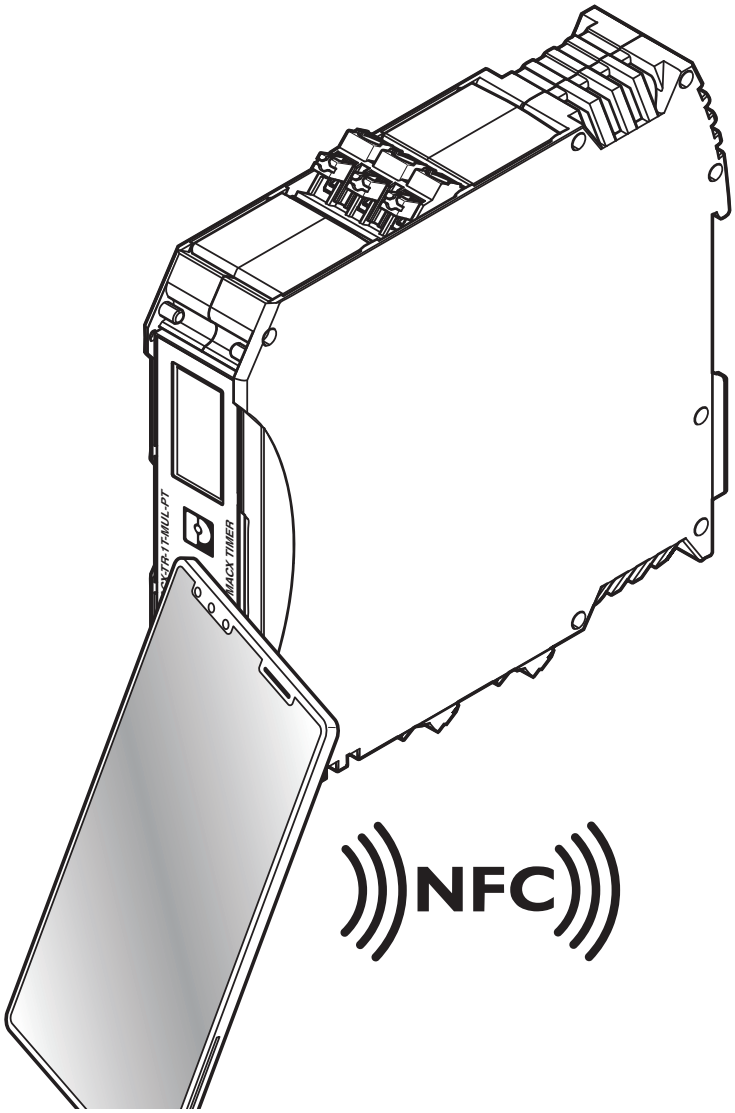
| | |
|---|---|
| Standards/regulations | IEC 60947-5-1 |
| | IEC 61812-1 |

## Mounting

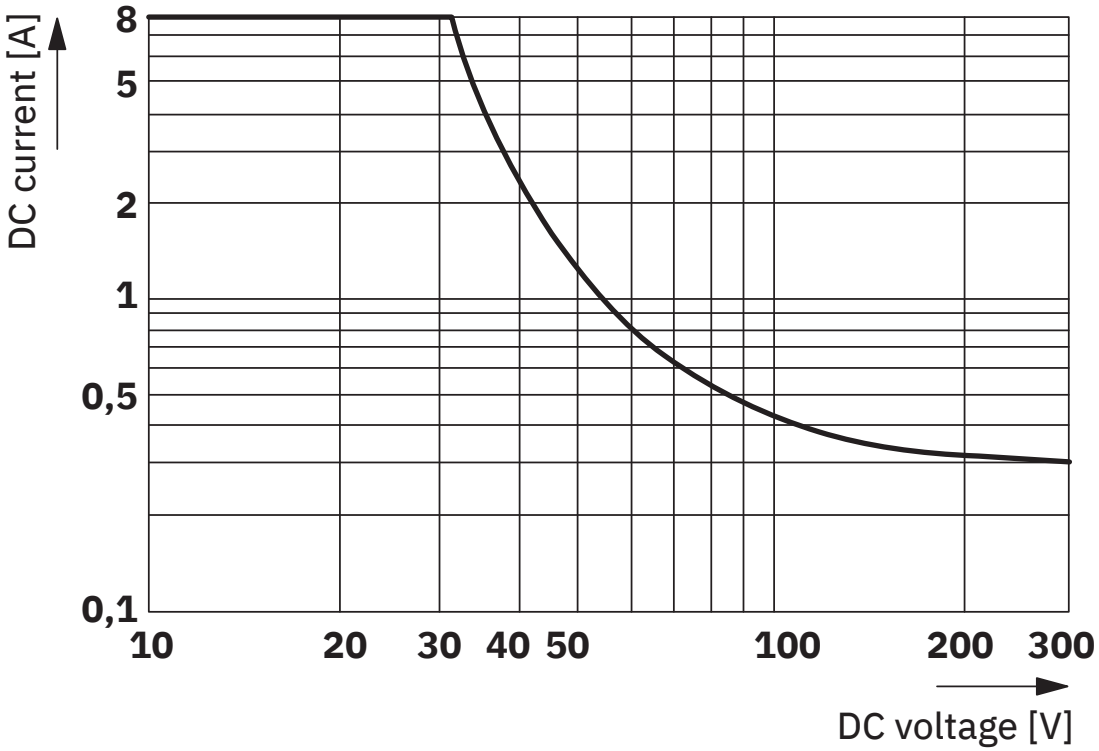
| | |
|---|---|
| Mounting type | DIN rail mounting |
| Assembly note | on standard DIN rail NS 35 in accordance with EN 60715 |
| Mounting position | any |

## Drawings

Schematic diagram

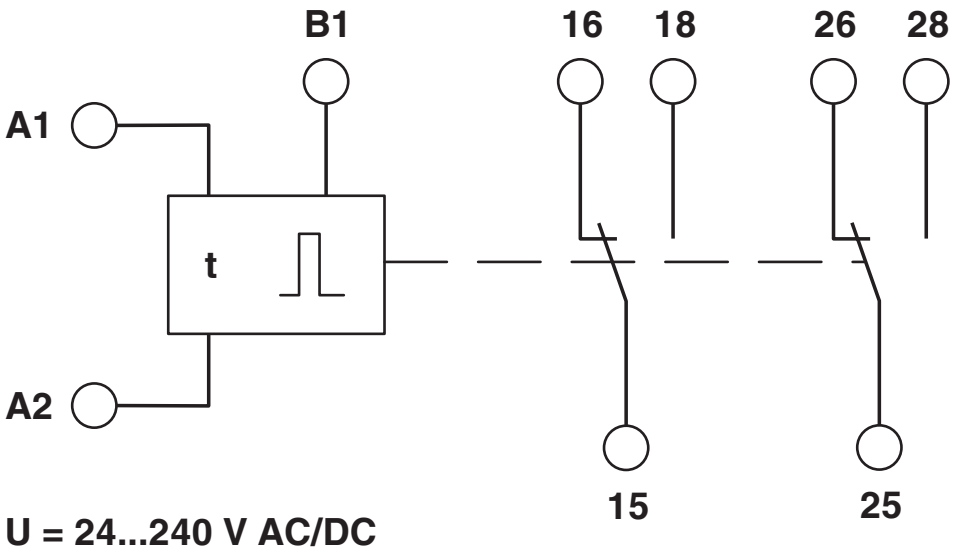


Diagram




Interrupting rating

Block diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1096431

**UL Listed**
Approval ID: FILE E 172140

**cUL Listed**
Approval ID: FILE E 172140

**CCC**
Approval ID: 2024010303656848

**cULus Listed**
Approval ID: E172140V1S9

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27371605 |
| ECLASS-15.0 | 27371605 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001439 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39122300 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | a8cc270a-fb25-4ed9-b5d9-ab5515cf91f0 |

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