

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



1096431

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

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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

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## Technical data

### Product properties

Product type	Timer relay
Mechanical service life	approx. $3 \times 10^7$ cycles

### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	3

### Electrical properties

Service life electrical	approx. $1 \times 10^5$ 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	$\leq 0.01 \text{ } ^\circ\text{C}$
Recovery time	100 ms
Setting range time	10 ms ... 59999 min (10 ms ... 999 h 59 min.)
Setting accuracy	$\leq 0.5 \text{ } \%$ (> 1 s)
Repeat accuracy	$\leq 0.05 \text{ } \%$ (> 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

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Conductor cross-section AWG	24 ... 14
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## 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
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### UL, USA/Canada

Identification	UL/C-UL Listed UL 508
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### CCC

Identification	GB/T 14048.5
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## 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
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## Standards and regulations

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

## Mounting

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

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## Drawings

Schematic diagram

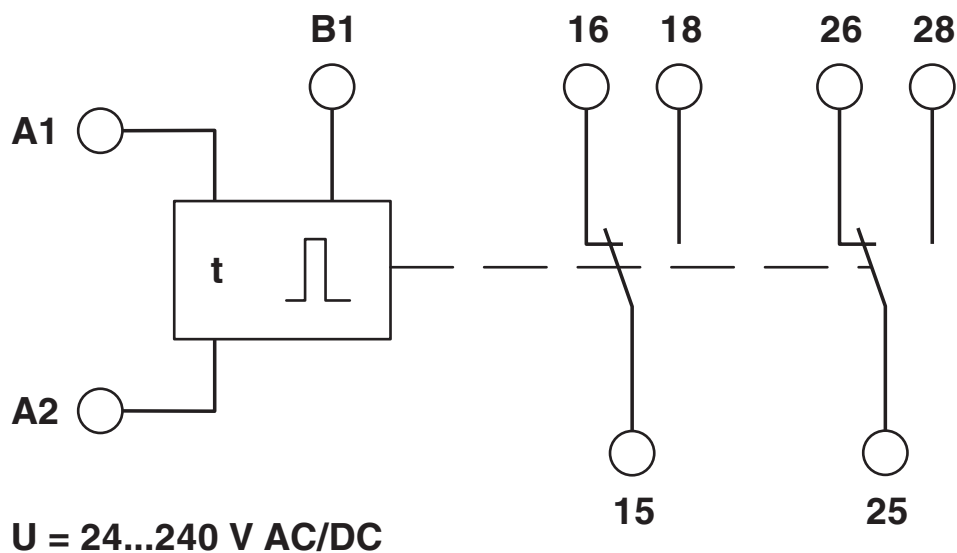


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Block diagram



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## 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

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## Classifications

### ECLASS

ECLASS-13.0	27371605
ECLASS-15.0	27371605

### ETIM

ETIM 10.0	EC001439
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### UNSPSC

UNSPSC 21.0	39122300
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## 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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