

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



1096431

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

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Multifunctional time relay, 24 V AC/DC ... 240 V AC/DC wide-range supply, with 13 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, push-in connection.

## Commercial Data

Item number	1096431
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	C443
Product Key	CK4811
GTIN	4055626932156
Weight per Piece (including packing)	181.3 g
Weight per Piece (excluding packing)	181.3 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
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### 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

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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>
Conductor cross section AWG	24 ... 14

## Dimensions

Width	22.5 mm
Height	109 mm
Depth	114 mm

## Material specifications

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

Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4

## Standards and regulations

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

## Mounting

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

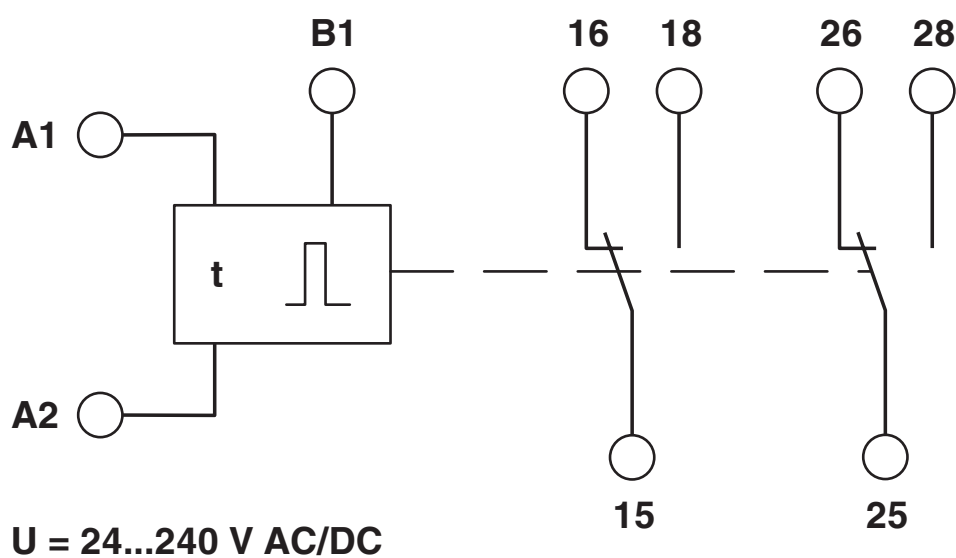
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## Drawings

Block diagram



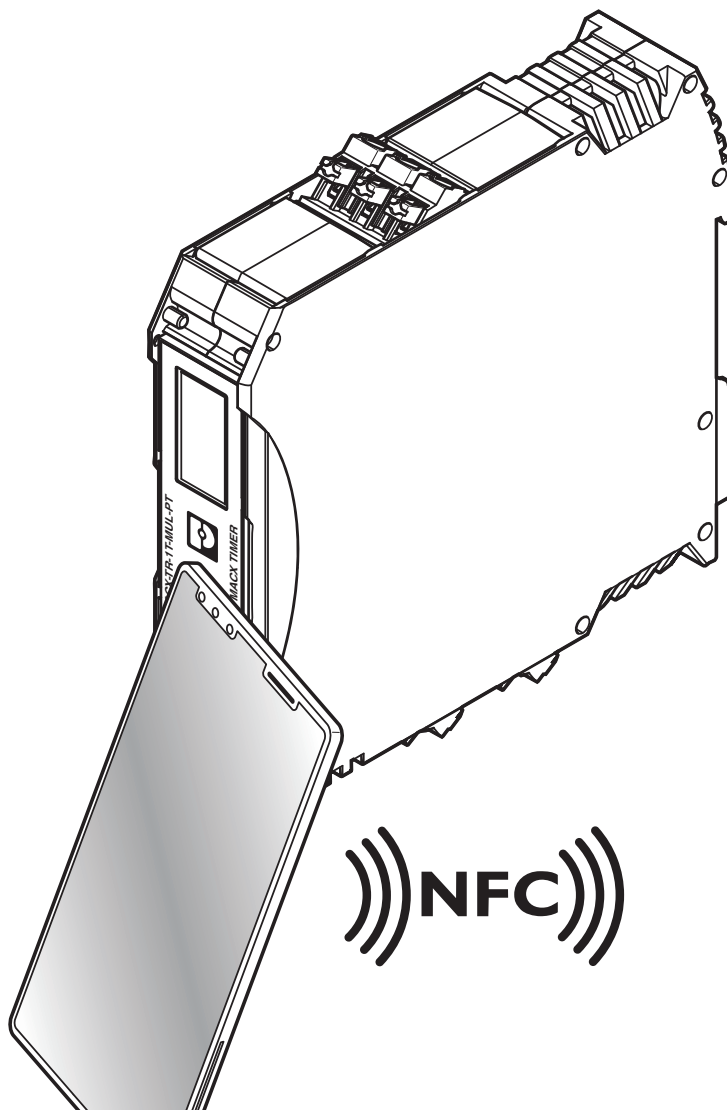
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Schematic diagram



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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

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## Classifications

### ECLASS

ECLASS-11.0	27371605
ECLASS-12.0	27371605
ECLASS-13.0	27371605

### ETIM

ETIM 8.0	EC001439
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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