MACX-TR-1T-MUL - Timer relay

1096429

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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, screw connection.

Commercial data

Item number	1096429
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C443
Product key	DK6621
GTIN	4055626931791
Weight per piece (including packing)	182 g
Weight per piece (excluding packing)	126 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, ±50 ms (<1 s))
Repeat accuracy	≤ 0.05 % (> 1 s, ±20 ms (<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	Screw 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
Tightening torque	0.5 Nm ... 0.6 Nm (5 lb in ... 7 lb in)

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

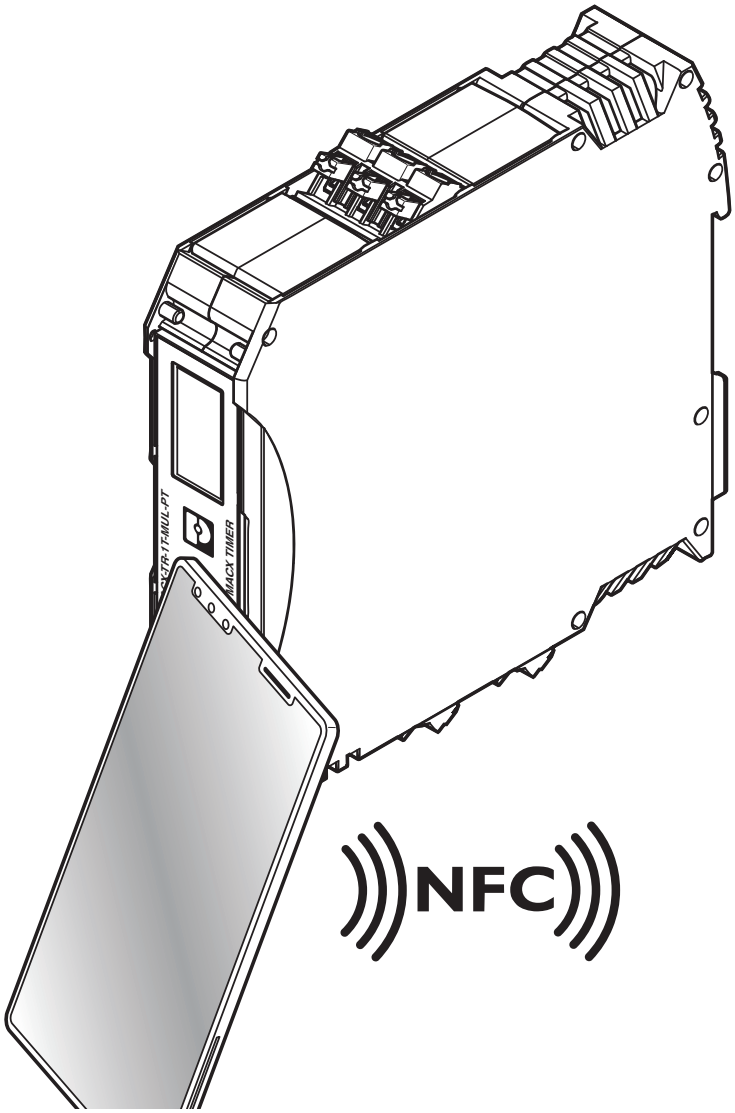
Standards/regulations	IEC 60947-5-1
	IEC 61812-1

Mounting

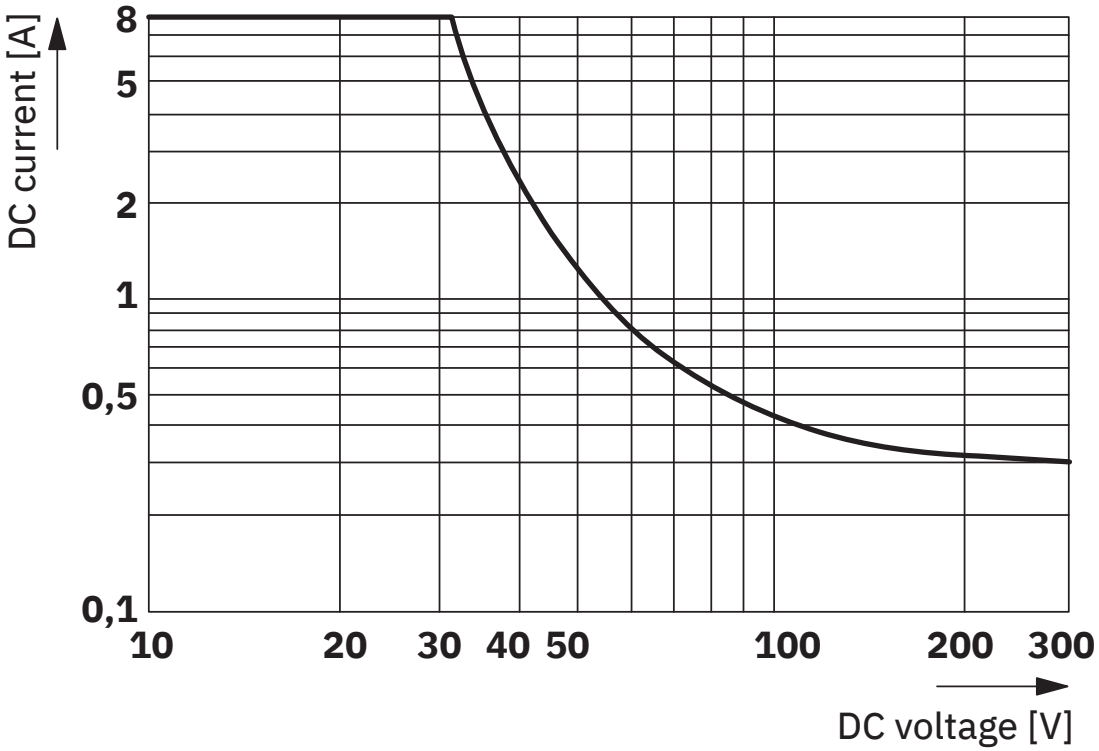
Mounting type	DIN rail mounting
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

Drawings

Schematic diagram

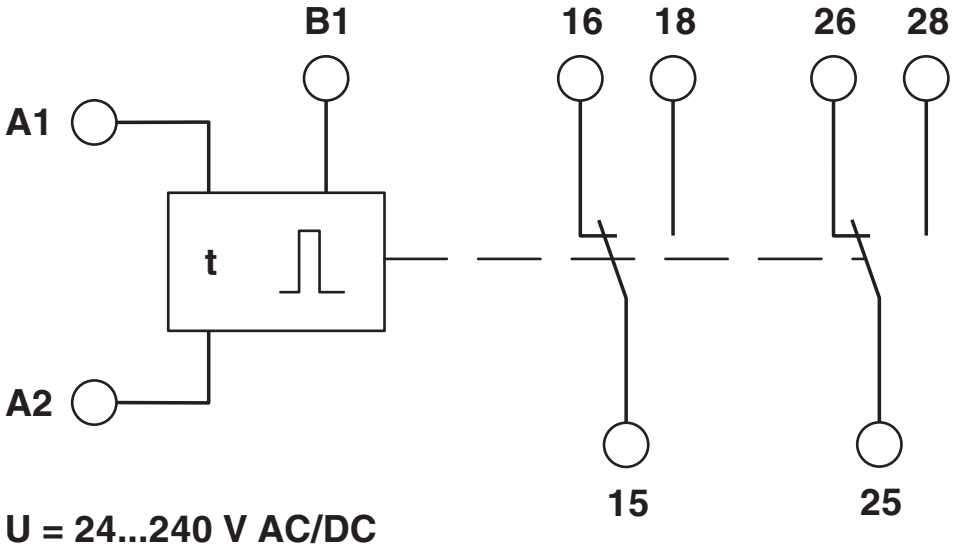


Diagram



Interrupting rating

Block diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1096429

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	35f7569e-d568-4dbb-8fb2-b0b52a03a8e8

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