MACX-TR-1T-MUL - Timer relay

1096429

https://www.phoenixcontact.com/us/products/1096429

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Multifunctional time 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	1096429
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C443
Product key	CK4811
GTIN	4055626931791
Weight per piece (including packing)	185 g
Weight per piece (excluding packing)	184 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. 3x 10^7 cycles

Insulation characteristics

Insulation	Basic insulation

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
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	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

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

Drawings

Schematic diagram
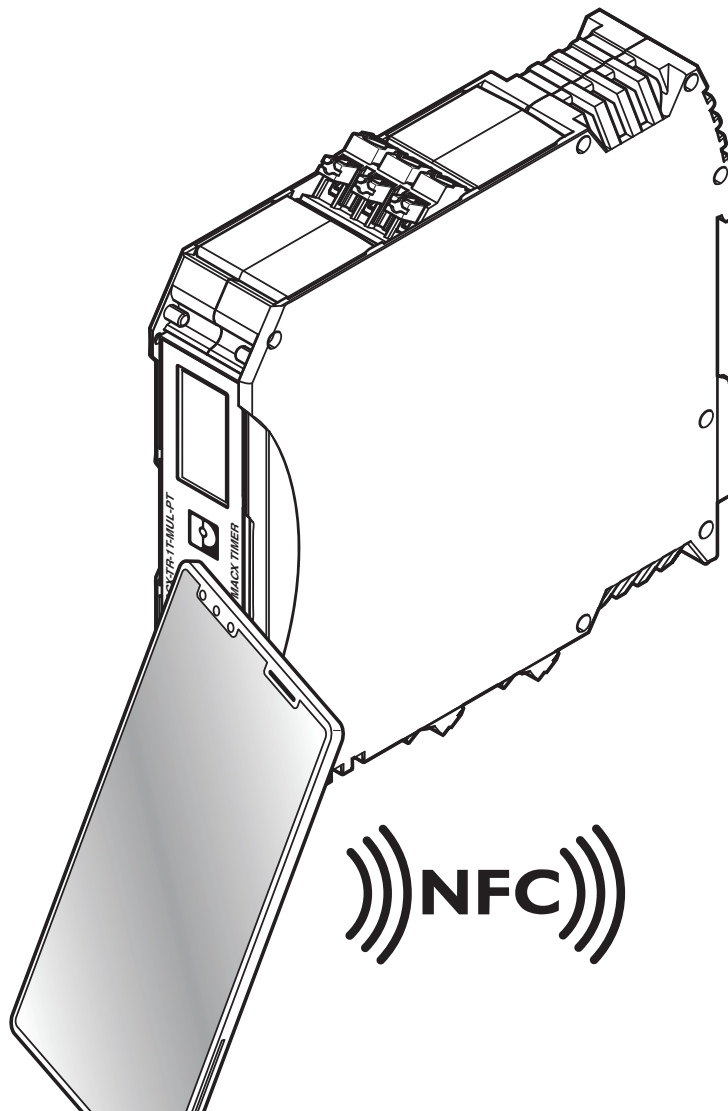
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Block diagram

U = 24...240 V AC/DC
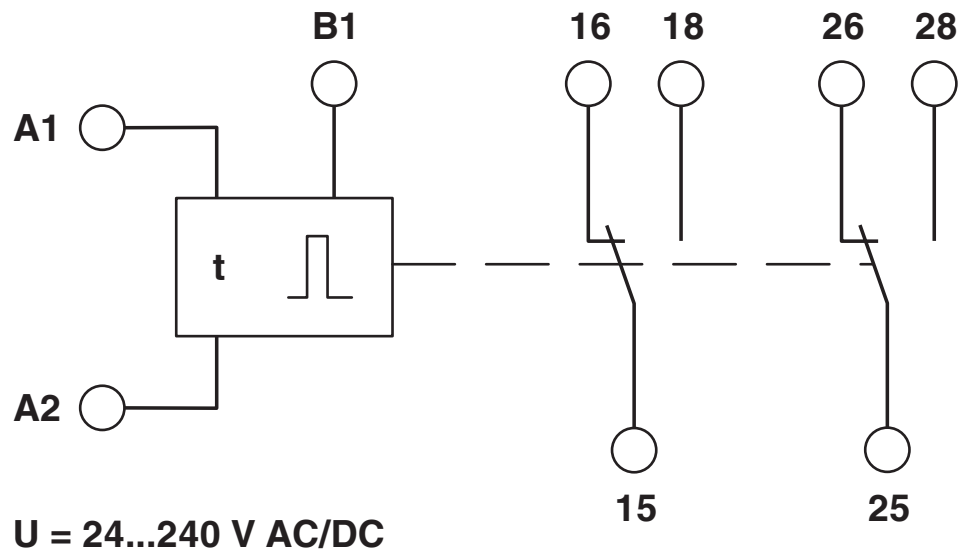
Approvals

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UL Listed
Approval ID: FILE E 172140

cUL Listed
Approval ID: FILE E 172140

cULus Listed

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Classifications

ECLASS

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

ETIM

ETIM 9.0	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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Accessories

MACX-BLUETOOTH-NFC - Adapter

1142259

https://www.phoenixcontact.com/us/products/1142259

Bluetooth NFC adapter

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