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Timer relay - ETD-BL-1T-230 - 2905813

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Compact multi-functional timer relay with 4 functions and an adjustable time range (50 ms - 1 h), with screw connection, 1 PDT

Product Description

Increasingly higher demands are being placed on safety and system availability – across all sectors. Processes are becoming more and more complex, not only in mechanical engineering and the chemical industry, but also in plant and automation technology. Demands on power engineering are also increasing constantly.

The timer relays in the ETD series can be used to control time sequences in production and process technology.

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626003351
Weight per Piece (excluding packing)	80.000 g
Custom tariff number	85364900
Country of origin	Austria

Technical data

Dimensions

Width	17.5 mm
Height	88 mm
Depth	65.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	15 % ... 85 %
Degree of protection	IP40 (Housing)
	IP20 (Connection terminal blocks)
Noise immunity	EN 61000-6-2

PHŒNIX
CONTACT

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Technical data

Coil side

Input voltage range	24 V AC/DC ... 240 V AC/DC -15 % ... +10 %
Temperature sensitivity	≤ 0.01 %/K
Function	E: With switch-on delay
	Rs: With release delay and control contact
	Es: With switch-on delay and control contact
	Ws: With single shot leading edge and control contact
Setting range time	50 ms ... 1 h (5 time end ranges)
Recovery time	100 ms

Contact side

Contact type	1 floating PDT
Maximum switching voltage	250 V AC (in acc. with IEC 60664-1)
Interrupting rating (ohmic load) max.	1250 VA (5 A / 250 V AC)
Output fuse	5 A (fast-blow)

General

Status display	Green LED (POWER)
	Yellow LED (relay active)
Mechanical service life	15x 10^6 cycles
Nominal power consumption	4 VA
Test voltage relay winding/relay contact	4 kV
Mounting position	any
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Color	gray
Permissible humidity (operation)	15 % ... 85 %
Nominal frequency	48 Hz ... 63 Hz

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	0.5 mm² ... 2.5 mm²
Conductor cross section flexible	0.5 mm² ... 2.5 mm²
Conductor cross section AWG	20 ... 14
Torque	1 Nm ... 1 Nm

Control contact

Connection name	Non-floating, terminals A1-B1
Control pulse length	≥ 50 ms (DC)
	≥ 100 ms (AC)

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-3

PHŒNIX CONTACT

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Standards and Regulations

Noise immunity	EN 61000-6-2
Standards/regulations	EN 50178
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	III
Low Voltage Directive	Conformance with Low Voltage Directive 2006/95/EC (valid until 2016-04-19) / 2014/35/EU (valid from 2016-04-20)

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Block diagram

$$U = 24...240 \text{ V AC/DC}$$
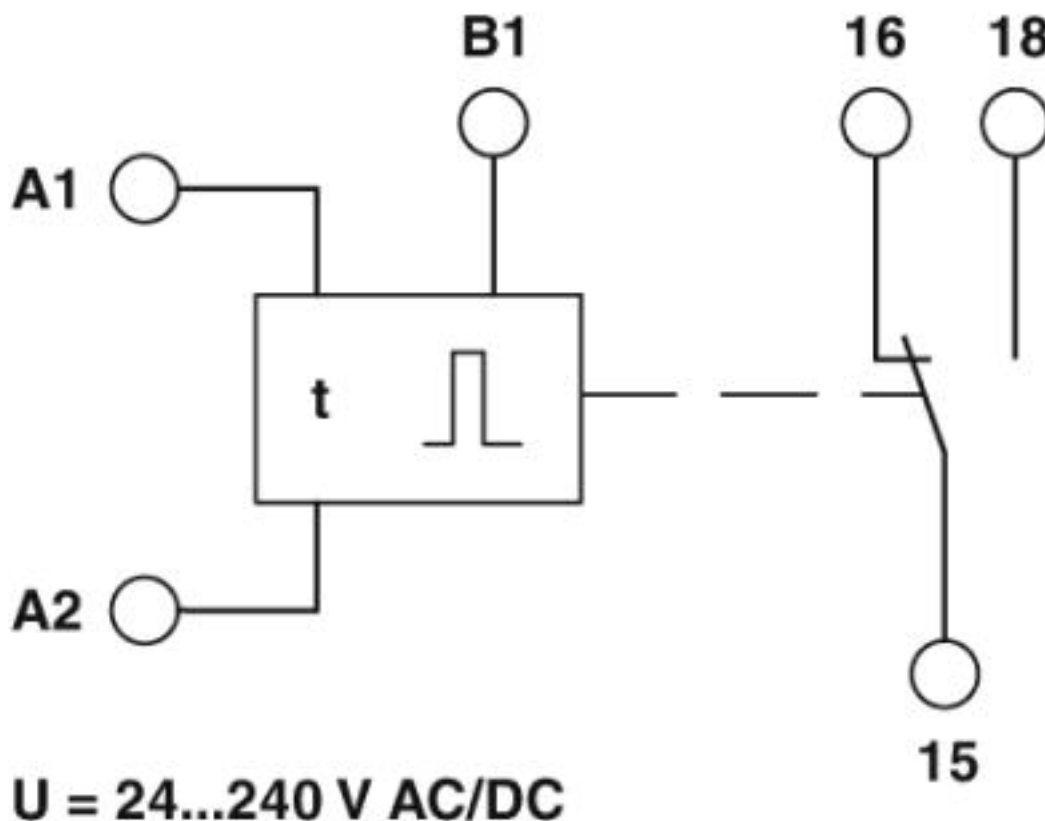
Classifications

eCl@ss

eCl@ss 5.0	27371700

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Classifications

eCl@ss

eCl@ss 5.1	27371700
eCl@ss 6.0	27371700
eCl@ss 7.0	27371790
eCl@ss 8.0	27371605
eCl@ss 9.0	27371605

ETIM

ETIM 2.0	EC001439
ETIM 3.0	EC001439
ETIM 4.0	EC001439
ETIM 5.0	EC001439
ETIM 6.0	EC001439
ETIM 7.0	EC001439

UNSPSC

UNSPSC 13.2	39122329
UNSPSC 18.0	39122329
UNSPSC 19.0	39122329
UNSPSC 20.0	39122329
UNSPSC 21.0	39122329

Approvals

Approvals

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UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed	UL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140

cUL Listed	c UL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140

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Approvals

EAC	EAC	RU C-DE.**08.B-00957

cULus Listed		