PHŒNIX CONTACT

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

The figure shows a version with push-in connection

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 STK
GTIN	‖‖‖‖‖‖‖‖‖‖‖‖ 4 055626 003351
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

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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	15 % ... 85 %
Noise immunity	EN 61000-6-2

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
	R: With release delay and control contact
	Es: With switch-on delay and control contact
	Ws: With single shot leading edge and control contact
Time setting range	50 ms ... 1 h (5 time end ranges)
Recovery time	100 ms

General

Status display	Green LED (POWER)
	Yellow LED (relay active)
Mechanical service life	15×10^6 cycles
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
Conformance	CE-compliant
UL, USA/Canada	UL 508 Listed

Connection data

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

Control contact

Connection name	Non-floating, terminals A1-B1

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Technical data

Control contact

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
Noise immunity	EN 61000-6-2
Flammability rating according to UL 94	V0
Low Voltage Directive	Conformance with Low Voltage Directive 2006/95/EC (valid until 2016-04-19) / 2014/35/EU (valid from 2016-04-20)
Conformance	CE-compliant
UL, USA/Canada	UL 508 Listed

Drawings

Block diagram

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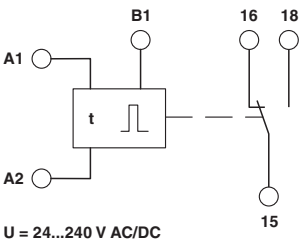
Classifications

eCl@ss

eCl@ss 5.0	27371701
eCl@ss 5.1	27371701
eCl@ss 6.0	27371790
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

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Classifications

ETIM

ETIM 6.0	EC001439

UNSPSC

UNSPSC 13.2	39122329

Approvals

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UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

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

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

EAC			RU C-DE.A*30.B.01082

cULus Listed			