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PHŒNIX CONTACT

Timer relay - ETD-BL-1T-230-PT - 2905814

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Compact multi-functional timer relay with 4 functions and an adjustable time range (50 ms - 1 h), with push-in 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.

Key Commercial Data

Packing unit	1 STK
GTIN	4 055626 003344

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 %
Noise immunity	EN 61000-6-2

Coil side

Input voltage range	24 V DC ... 240 V DC -20 % ... +25 %
Temperature sensitivity	$\leq$ 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

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Technical data

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	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
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	Push-in connection

Control contact

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

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-3
Noise immunity	EN 61000-6-2
Flammability rating according to UL 94	V0
Low Voltage Directive	Conformance with LV directive 2006/95/EC
UL, USA / Canada	UL 508 Listed

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Classifications

eCl@ss

eCl@ss 5.1	27371701
eCl@ss 6.0	27371790
eCl@ss 8.0	27371605
eCl@ss 9.0	27371605

ETIM

ETIM 5.0	EC001439

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approvals submitted
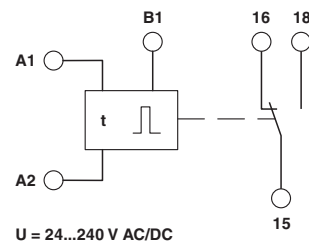
Approval details

UL Listed

cUL Listed

EAC

cULus Listed

Drawings

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Block diagram

B1   16   18

A1

t

A2

U = 24...240 V AC/DC

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