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Timer relay - ETD-SL-1T-DTF - 2866161

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Multi-functional timer relay with 8 functions and an adjustable time range (50 ms - 100 h), wide-range power supply unit, 2 PDTs

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.

Why buy this product

☑ Universal use thanks to wide range of functions and selectable time ranges

☑ Time ranges from a few milliseconds to several days

☑ 2 floating PDT outputs

☑ Variable supply voltage range

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 046596
GTIN	4046356046596
Weight per Piece (excluding packing)	150.600 g
Custom tariff number	85364900
Country of origin	Austria

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

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Technical data

Dimensions

Width	22.5 mm
Height	90 mm
Depth	113 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
	-25 °C ... 40 °C (corresponds to UL 508)
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 %
	24 V AC ... 240 V AC -15 % ... +10 %
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
	Wu: With single shot leading edge, voltage controlled
	Ws: With single shot leading edge and control contact
	Wa: With single shot trailing edge and control contact
	Bi: Flashing beginning with pulse
	Bp: Flashing beginning with pause
Time setting range	50 ms ... 100 h (7 time end ranges)
Recovery time	500 ms

Contact side

Contact type	2 floating PDT contacts
Maximum switching voltage	250 V AC (in acc. with IEC 60664-1)
Interrupting rating (ohmic load) max.	750 VA (3 A/250 V AC, module aligned, $\leq$ 5 mm spacing)
	1250 VA (5 A/250 V AC, module not aligned, $\geq$ 5 mm spacing)
Output fuse	5 A (fast-blow)

General

Status display	Green LED (POWER)
	Yellow LED (relay active)
Mechanical service life	approx. 2x 10^7 cycles
Nominal power consumption	2.5 VA (1 W)
Test voltage relay winding/relay contact	4 kV

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Technical data

General

Mounting position	any
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Color	green
Housing insulation material	Polyamide PA, self-extinguishing
Permissible humidity (operation)	15 % ... 85 %
Nominal frequency	48 Hz ... 63 Hz
Rated insulation voltage	300 V (acc. to EN 50178)
Conformance	CE-compliant
UL, USA/Canada	UL/C-UL listed UL 508

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
Load capacity	Parallel switched minimum load current 1 VA (0.5 W), terminals A2-B1
Cable length	< 10 m
Control pulse length	min. 70 ms

Standards and Regulations

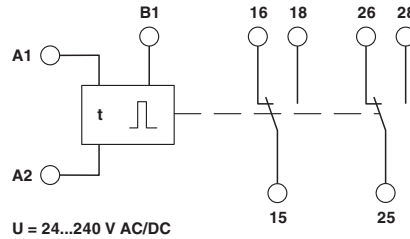| Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Flammability rating according to UL 94	V0
Conformance	CE-compliant
UL, USA/Canada	UL/C-UL listed UL 508

Environmental Product Compliance

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

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Drawings

Block diagram

U = 24...240 V AC/DC

Classifications

eCl@ss

eCl@ss 5.0	27371701
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

UNSPSC

UNSPSC 6.01	30211920
UNSPSC 7.0901	39121519
UNSPSC 11	39121519
UNSPSC 12.01	39121519
UNSPSC 13.2	39122329

Approvals

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UL Listed / cUL Listed / EAC / cULus Listed

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Approvals

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.**08.B-00957 |

| cULus Listed | | | |