2866161

https://www.phoenixcontact.com/us/products/2866161

PHŒNIX CONTACT

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

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.

Your advantages

- · Universal use thanks to wide range of functions and selectable time ranges
- · Time ranges from a few milliseconds to several days
- 2 floating changeover contact outputs
- · Variable supply voltage range

Commercial data

Item number	2866161
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C441
Product key	CK4421
Catalog page	Page 265 (C-5-2019)
GTIN	4046356046596
Weight per piece (including packing)	140.8 g
Weight per piece (excluding packing)	138.66 g
Customs tariff number	85364900
Country of origin	AT

2866161

https://www.phoenixcontact.com/us/products/2866161



Technical data

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
roduct properties	
Product type	Timer relay
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 ⁷ cycles
Insulation characteristics	
Insulation	Basic insulation
Insulation characteristics	
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Service life electrical	approx. 2x 10 ⁵ cycles at ohmic load, 1000 VA
Maximum power dissipation for nominal condition	2 W
Nominal frequency	48 Hz 63 Hz
Nominal power consumption	2.5 VA (1 W)
Test voltage relay winding/relay contact	4 kV
Rated insulation voltage	300 V

Input data

2.5 VA (1 W)
24 V DC 240 V DC -20 % +25 %
24 V AC 240 V AC -15 % +10 %
≤ 0.01 %/K
500 ms
E: With switch-on delay
Rs: 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
yes
yes

2866161

https://www.phoenixcontact.com/us/products/2866161

Passing make contact function	yes
Passing break contact function	yes
Star/delta function	No
Pulse-forming function	No
Flashing function beginning with pause, fixed time	yes
Clocking function beginning with pause, variable	No
Flashing function beginning with pulse, fixed time	yes
Clocking function beginning with pulse, variable	No
Setting range time	50 ms 100 h (7 time end ranges)
Basic accuracy	± 1 % (of scale end value)
Setting accuracy	≤ 5 % (of scale end value)
Repeat accuracy	≤ 0.5 % ±5 ms

Control

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

Output data

Switching	
Contact switching type	2 floating changeover 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, ≤ 5 mm spacing)
	1250 VA (5 A/250 V AC, module not aligned, ≥ 5 mm spacing)
Output fuse	5 A (fast-blow)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section rigid	0.5 mm ² 2.5 mm ²
Conductor cross section flexible	0.5 mm ² 2.5 mm ²
Conductor cross section AWG	20 14
Tightening torque	1 Nm 1 Nm

Signaling

Status display	Green LED (POWER)
	Yellow LED (relay active)

Dimensions

Width	22.5 mm
Height	90 mm
Depth	113 mm

PHŒNIX CONTACT

2866161

https://www.phoenixcontact.com/us/products/2866161



Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0
Housing insulation material	Polyamide PA, self-extinguishing

Environmental and real-life conditions

Ambient conditions	
Degree of protection (Housing)	IP40 (Housing)
Degree of protection (Connection terminal blocks)	IP20 (Connection terminal blocks)
Ambient temperature (operation)	-25 °C 55 °C
	-25 °C 40 °C (corresponds to UL 508)
Ambient temperature (storage/transport)	-25 °C 70 °C
Climatic class	3K3 (in acc. with EN 60721)
Permissible humidity (operation)	15 % 85 %

Approvals

CE			
Certificate	CE-compliant		
UL, USA/Canada			
Identification	UL/C-UL Listed UL 508		
EMC data			

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	EN 50178
-----------------------	----------

Mounting

Mounting type	DIN rail mounting
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any



2866161

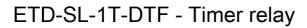
https://www.phoenixcontact.com/us/products/2866161



Classifications

ECLASS

	ECLASS-11.0	27371605			
ETIM					
	ETIM 9.0	EC001439			
UNSPSC					
	UNSPSC 21.0	39122300			



2866161

https://www.phoenixcontact.com/us/products/2866161



Environmental product compliance

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

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com