







- Single Function Time Relays
- 7 time rangers 1s...100h
- Universal supply of 12V AC/DC to 240V AC/DC
- Low power consumption <2.5 VA or < 1.5 W high energy efficiency

Description

- Installation design DIN 35mm
- Width 17.5mm
- For building and industrial applications
- In accordance with PN EN 61812-1

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Technical data

Output circuit MTR17-...-U240-116 Contact arrangement 1 form C Rated voltage V AC 250/400 Switching current range AC1 A/V AC 16/250 A/V DC 16/24 DC1 Switching load range 4 000 AC1 VA ≤ 100 max.(at 1A 6 VDC) Contact resistance mΩ Max. rated current 6 Input circuit

Supply voltage U _n AC/DC (AC:50-60Hz)		V	12240
Tolerance			0,81,1U _n (9,6264V)
Rated consumption	AC	VA	≤ 2,5
	DC	W	≤ 2
Rated frequency		Hz	4763
Control input S			
- 14:			0.711

■ IVIIn. trigger level S-A2 (sensitivity)		0,7U _n
 Min. control pulse length 	ms	AC: ≥ 90 DC: ≥ 45
Loadable		yes
Rated surge voltage	V	1 000
Max. line length	m	10
Insulation		

Insulation rated voltage	V AC	250
Rated surge voltage	V	2 500 1,2/50μs
Overvoltage category		III
Dielectric strength		
Input - output	V AC	4 000
 Open contact 		1 000
Control data		

General data		
Electrical life AC1 at 1000 VA resistive load		≥ 1,5 x 10 ⁵ operations
Mechanical life		≥ 3 x 10 ⁷ operations
Dimensions (L x W x H) / Weight	mm/g	90 x 17,5 x 66 / 53g
Ambient temperature / storage temperature	°C	-40+45 / -20+70
IP rating		IP20
Relative humidity	%	to 85
Shock resistance	g	15
Vibration resistance	mm	0,35 1055Hz
Time medule data		

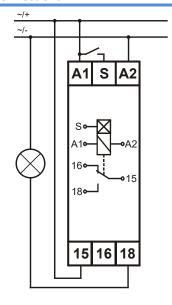
Time module data		
Functions		TA/TB, TC/TD, BA
Time ranges		1s, 10s, 1m, 10m, 1h, 10h, 100h
Timing adjustment		smooth 0,11,0 x time range
Setting accuracy	%	5 ❷
Repeatability	%	0,5 🖸
Recovery time	ms	≤ 100



The single function timers are designed for applications in automation and control. Universal power supply allows you to connect to any source of AC or DC voltage from 12 to 240V.

The brain chip of your application-specific miniature controller is the ideal solution for realizing custom control applications within minimum space at low-cost.

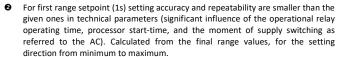
Connections



Mounting

Relays are designed for direct mounting on 35 mm rail mount acc. to PN-EN 60715. Operational position - any. Connections: max. cross section of the cables: 1 x 2,5 mm2 / 2 x 1,5 mm2 (1 x 14 / 2 x 16 AWG), length of the cable deinsulation: 6,5 mm, max. tightening moment for the terminal: 0,6 Nm.

The control input S is activated by connection to A1 terminal via the external control contact S.



Maximum rated current together of all the relay contacts.

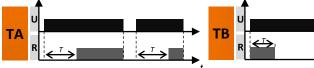
Attention



Read and understand these instructions before installing, operating or maintaining the equipment.

Never carry out work on live parts! Danger of fatal injury! The product must not be used in case of obvious damage. To be installed by an authorized person.

Time functions

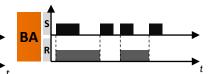


ON delay (TA) - on applying the supply voltage U the set interval T begins - off-delay of the output relay R. After the interval T has lapsed, the output relay R switches on and remains on until supply voltage U is interrupted.

To execute TA function the S contact must be floating.

ON for the set interval (TB) - applying the supply voltage U immediately switches the output relay R on for the set interval T. After the interval T has lapsed, the output relay R switches off.

To execute TB function the S contact must be connected to A1.



Bistable operation with the control contact S (BA) - The input of the time relay is supplied with U voltage continuously. Closing of the control contact S immediately switches on the output relay R. Each next closing of the control contact S results in a change of the status of the output relay R to an opposite one (the feature of a bistable relay).



Symmetrical cyclical operation pause first (TC) - applying the supply voltage U starts the cyclical operation from the T interval - switching the output relay R off followed by switching on the output relay R for the interval T. The cyclical operation lasts until the supply voltage U is interrupted.

To execute TC function the S contact must be floating.



Symmetrical cyclical operation pulse first (TD) - applying the supply voltage U starts the cyclical operation from switching on the output relay R for the set interval T. After the interval T has lapsed, the output relay R switches off for the interval T. The cyclical operation lasts until the supply voltage U is interrupted.

To execute TD function the S contact must be connected to A1.

Coding

Dimensions

MTR17-TAB-U240-116 TA and TB functions
MTR17-TCD-U240-116 TC and TD functions
MTR17-BA-U240-116 BA function

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Dobry Czas Sp. z o.o. 51-315 Wrocław ul. Miłostowska 7/6; Poland

***** +48 71 729 95 90

www.dobry-czas.pl