







- Multifunction modern timers
- Up to 7 functions, 7 time rangers
- Universal supply of 12V AC/DC to 240V AC/DC
- Low power consumption <2.5 VA or < 1.5 W high energy efficiency
- Installation design DIN 35mm
- Width 17.5mm
- For building and industrial applications
- In accordance with PN EN 61812-1



Technical data

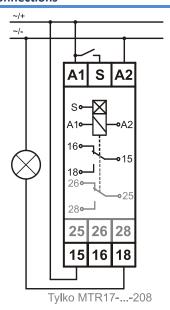
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Output circuit		MTR17116	MTR17208
Contact arrangement		1 form C	2 form C
Rated voltage	V AC	250/400	
Switching current range AC1	A/V AC	16/250	8/250
DC1	A/V DC	16/24	8/24
Switching load range AC1	VA	4 000	2 000
Contact resistance	mΩ	≤ 100 max.(at 1A 6 VDC)	
Max. rated current 3	Α	12	
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			
 Min. trigger level S-A2 (sensitivity) • 		0,7U _n	
 Min. control pulse length 	ms	AC: ≥ 90	DC: ≥ 45
 Loadable 		yes	
Rated surge voltage	V	2 500	
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	
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	90 x 17,5 x 66 / 57g
Ambient temperature / storage temperature	°C	-40+55 /	[′] -20+70
IP rating		IP20	
Relative humidity	%	to 85	
Shock resistance	g	15	
Vibration resistance	mm	0,35 1055Hz	
Time module data			
Functions		TA, TB, TC/TD, TF, TG, TI, TJ	
Time ranges		1s, 10s, 1m, 10m, 1h, 10h, 100h	
Timing adjustment		smooth 0,11,0 x time range	

Description

Multifunction time relays are particularly accurate in reaching the time limit even over long periods of time. With the universal supply of 12V AC/DC to 240V AC/DC and different functions it is possible to find solutions even to the most challenging problems.

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.

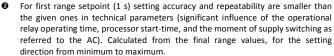
The control input S is activated by connection to A1 terminal via the external control contact S.

%

5 2

0.5 2

≤ 100



Maximum rated current together of all the relay contacts.

Attention

Setting accuracy Repeatability

Recovery time



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.



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.

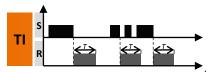


Single shot for the set interval triggered by closing of the control contact S. (TG) -

The input of the time relay is supplied with voltage U continuously. Closing of the control contact S immediately switches the output relay R on for the set interval T. After the interval T has lapsed, the output relay R is switched off. In the course of the interval T, any opening of the control contact S does not affect the function to be performed. The output relay R may be switched on again for the set interval, after the interval T has lapsed, by closing the control contact S again



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.



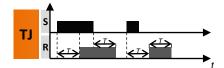
ON for the set interval triggered with

the control contact S. (TI) - The input of the time relay is supplied with voltage U continuously. Closing of the control contact S does not start the interval T, and it does not change the position of the output relay R. Opening of the control contact S immediately switches on the output relay R for the set time. After the interval T has lapsed, the output relay R switches off. Opening and closing of the control contact S in the course of the interval T does not affect the function to be performed. The output relay R may be switched on again for the set interval with another closing and opening of the control contact S.



OFF delay with the control contact S.

(TF) - The input of the time relay is supplied with voltage U continuously. Closing of the control contact S immediately switches on the output relay R. Opening of the control contact S starts the set time of the delayed switching off of the output relay R. After the interval T has lapsed, the output relay R switches off. If the control contact S is closed during the interval T, the already measured time is reset, and the output relay R will start when the control contact S is opened again.

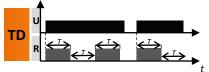


ON and OFF delay with the control

contact S. (TJ) — The input of the time relay is supplied with voltage U continuously. Closing of the control contact S starts the interval T - on-delay of the output relay R. After the interval T has lapsed, the output relay R switches on. Opening of the control contact S begins further measurement of the interval T - off-delay of the output relay R, and after the interval has lapsed, the output relay R, and after the interval has lapsed, the output relay switches off. In case the time for which the control contact S is closed in the course of measurement of the on-delay of the output relay R is shorter than the set interval T, the output relay R will switch on after the set interval T, and the output relay R will remain in on position for the interval

T. When the output relay R is in on position, closing of the control contact S does not affect the function to be

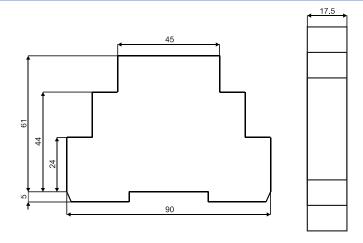
performed.



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.

Dimensions



GOTI

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