GOTI DOBRY CZAS

Time relays – Star – Delta start up MTR17-TTZ-U240-216



Star – Delta start - up

- 4 Time rangers, 2 change over contacts
- Wide input voltage range 12-240V AC/DC
- Low power consumption <2.5 VA or < 1.5 W high energy efficiency
- Installation design DIN 35mm
- Width 17.5mm
- For industrial applications
- In accordance with PN EN 61812-1

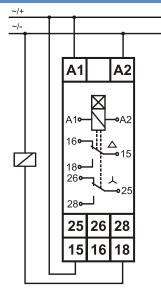
Description

Contact arrangement		2 form C O
Rated voltage	V AC	250/400
Switching current range AC1	A/V AC	16/250
DC1	A/V AC	16/24
Switching load range AC1	VA	4 000
Contact resistance	mΩ	≤ 100 max.(at 1A 6 VDC)
Max. rated current	A	120
Input circuit		
Supply voltage Un 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
Insulation		
nsulation rated voltage	V AC	250
Rated surge voltage	V	2 500 1,2/50µs
Overvoltage category		
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 / 71g
Ambient temperature / storage temperature	°C	-40+55 / -20+70
P rating		IP20
Relative humidity	%	to 85
Shock resistance	g	15
Vibration resistance	mm	0,35 1055Hz
Time module data		
Functions		TZ
Time ranges		1s, 10s, 1m, 10m, (1h),
Timing adjustment		smooth 0,11,0 x time range
Setting accuracy	%	5% 🖲
Repeatability	%	0,5% or +/-5 ms
Recovery time	ms	≤ 100

The timers in the MTR17 series in the installation design style, feature the newly developed case front which makes optimum use of the space available within the overall front width of 17.5mm. 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.

CE

Connections



• 2 potential free change over contacts.

Maximum rated current together of all the relay contacts.

Of minimum scale value.



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: $1 \times 2,5 \text{ mm2} / 2 \times 1,5 \text{ mm2} (1 \times 14 / 2 \times 16 \text{ AWG})$, length of the cable deinsulation: 6,5 mm, max. tightening moment for the terminal: 0,6 Nm.

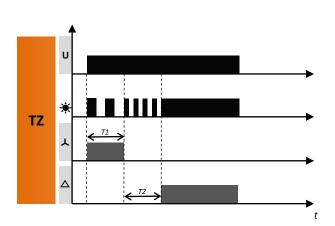


Green LED ON: indication of supply voltage delta-contactor in on-position (terminals 25-28) Green LED flashes: indication of time period - start-up time Yellow LED ON/OFF: indication of star-conductor (terminals 15-18)

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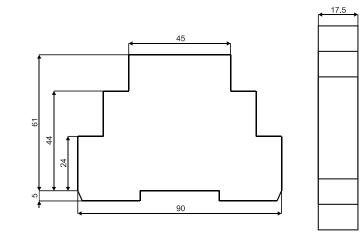
Time functions



Star-Delta start-up (TZ)

When the supply voltage U is applied, the output relay for the star contactor switches into onposition (yellow LED illuminated) and the set star interval T1 begins (green LED flashes slowly). After the star interval T1 has expired (green LED flashes rapidly), the output relay for the star contactor switches into off position (yellow LED not illuminated) and the set transit interval T2 begins. After the transit interval has expired, the output relay for the delta contactor switches into on-position (green LED illuminated). To restart the function, the supply voltage must be interrupted and reapplied.

Dimensions





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