OMRON

Electro-Mechanical Timer | STMN

General Purpose Type Allows Setting Changes While Operating

- Seven time ranges (10 min to 24 hr)
- Setting dial adjustable while operating
- Flush mounting
- Two separate outputs
- Repeat accuracy to +2%
- Operated by synchronous motor

Ordering Information

Model	STMN-Y222

When ordering, add the time range as shown below:
Example: STMN AC240 10H

└─────── Time range

Specifications

■ Time Ranges

Operating voltage range	240 VAC, 50/60 Hz
control output	Contact: Dual, SPST-NO 10A 125 VAC resistive

■ Ratings

Time range	Max.dial setting		Min. dial setting	
	60Hz	**50Hz**	**60Hz**	**50Hz**
10 min.	10 min.	12 min.	50 sec.	60 sec.
30 min.	30 min.	36 min.	2.5 min.	3 min.
60 min.	60 min.	72 min.	5 min.	6 min. ★
180 min.	180 min.	215 min.	15 min.	18 min. ★
6 hrs.	6 hrs.	7.2 hrs.	30 min.	36 min.
10 hrs.	10 hrs.	12 hrs.	50 min.	60 min. ★
24 hrs.	24 hrs.	28.8 hrs	2 hrs.	2.4 hrs. ★

★ Stars represent preferred stocked lines. Please contact your Omron representative for availability of other items.
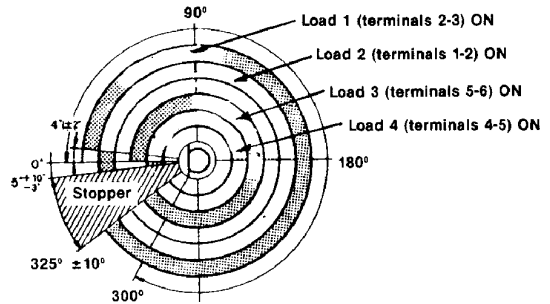
■ Characteristics

Repeat accuracy	+2% of max. dial setting
Insulation resistance	100Mw min. (at 500 VDC)
Dielectric strength	1,500 VAC, 50/60Hz for 1 minute (between contacts)
Vibration resistance	Mechanical durability: 16.7Hz for 1 hour: 4mm double amplitude
Shock resistance	Mechanical components durability: 500 m/s^2 (approx. 50g) Electrical components durability: 150 m/s^2 (approx. 15g)
Ambient temperature	Operating: –10 to +55%C
Humidity	45 to 85% RH
Power consumption	Less than 2VA
Life expectancy	Mechanical: 150,000 min. Electrical: 150,000 min

Connections/Timing Charts
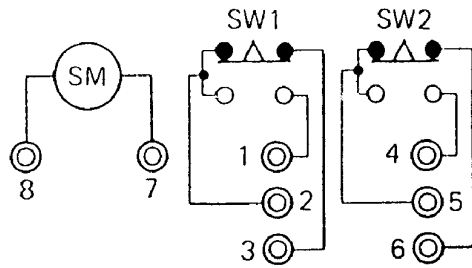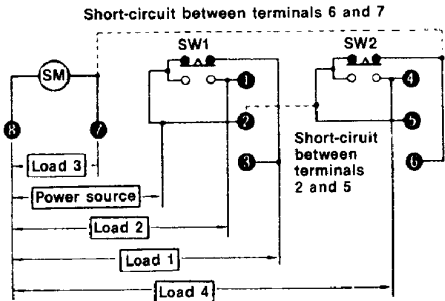
The unit operates as follows:
1. With the time value set and the source voltage applied across terminals 7 and 8, the motor starts.
2. While operating, terminals 2,3,5 and 6 are closed, 1,2,4 and 5 are opened.
3. When the time has elapsed, terminals 2 and 3 are opened, 1 and 2 are closed. Terminals 5 and 6 are opened while 4 and 5 are closed. A 4° time lag is applied to compensate for the delay between switchover of the two outputs.

Dimensions