

W 48 × H 48 mm Star-Delta Analog Timers



AT8SDN Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.


Features

- Wide range of power supply
: 100 - 240 VAC ~ 50 / 60 Hz, 24 - 240 VDC = universal
- Wide range of setting time and switching time
- T1 (setting time): Selectable 0.5 to 100 sec
- T2 (switching time): Selectable 0.05, 0.1, 0.2, 0.3, 0.4, 0.5 sec
- Simple setting time, switching time operation
- Easy to check output status by LED display
- Application: Starting large capacity motors

Product Components

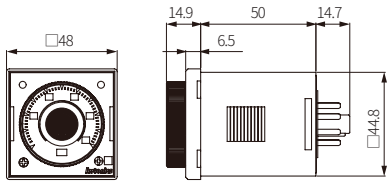
- Product (+ bracket)
- Instruction manual

Specifications

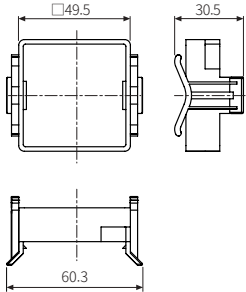
Model	AT8SDN
Function	Star-Delta Timer
Return time	≤ 100 ms
Time operation	Power ON Start
Control output	Relay
Contact type	Y Contact: Time limit SPST (1a), Δ Contact: Time limit SPST (1a)
Contact capacity	250 VAC ~ 5 A, 30 VDC = 5 A resistive load
Error	Repeat: ≤ ± 0.2% ± 10 ms Voltage: ≤ ± 0.5% Temp.: ≤ ± 2% Y setting time: ≤ ± 5% ± 50 ms Y - Δ switching time: ≤ ± 25%
Approval	CE c  ENEC EAC
Weight	≈ 90 g
Power supply	100 - 240 VAC ~ ± 10% 50 / 60 Hz, 24 - 240 VDC = ± 10%
Power consumption	AC: ≤ 3.2 VA, DC: ≤ 1.5 W
Insulation resistive	≥ 100 MΩ (500 VDC = megger)
Dielectric strength	2,000 VAC ~ at 50 / 60 Hz for 1 min
Noise immunity	± 2 kV square-wave noise by noise simulator (pulse width 1 μs)
Vibration	0.75 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 1 hour
Vibration (malfunction)	0.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min
Shock	300 m/s ² (≈ 30 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	100 m/s ² (≈ 10 G) in each X, Y, Z direction for 3 times
Relay life cycle	Mechanical: ≥ 10,000,000 operations Electrical: ≥ 100,000 operations (250 VAC ~ 5 A resistive load)
Ambient temperature	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)
Ambient humidity	35 to 85%RH, storage: 35 to 85%RH (no freezing or condensation)

Dimensions

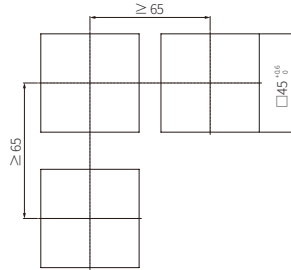
- Unit: mm, For the detailed drawings, follow the Autonics website.



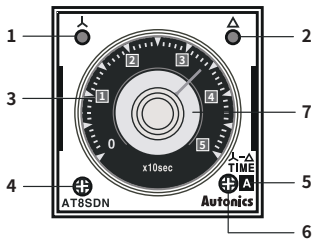
Bracket



Panel cut-out



Unit Descriptions



No.	Name
1	Y operation indicator
2	Δ operation indicator
3	Time range display part
4	Time range setting switch
5	Y - Δ switching time display part
6	Y - Δ switching time setting switch
7	Dial for the time setting

Sold Separately

- 8-pin socket: PG-08, PS-08(N)