Star-Delta Timer with Free Power, Compact Size W38×H42mm

Features

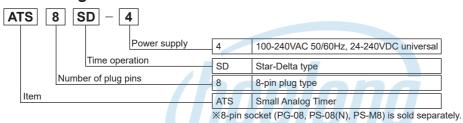
- Wide power supply range : 100-240VAC 50/60Hz, 24-240VDC universal
- · Wide time setting range and switching time
- T1 (setting time): selectable 0.5 to 100 sec
- T2 (switching time): selectable 0.05, 0.1, 0.2, 0.3, 0.4, 0.5 sec
- Close and DIN rail mounting with the dedicated socket (PS-M8) width 41mm
- Easy installation/maintenance with the dedicated bracket for DIN 48×48mm
- · Application: Starting large capacity motors



CE GALIUS

Ordering Information

Please read "Safety Considerations" in the instruction manual before using



Specifications

E opecinications							
Model		ATS8SD-4					
Function		Star-Delta Timer					
Control time setting range*1		0.5 to 100 sec					
Power supply		100-240VAC∼ 50/60Hz, 24-240VDC≕ universal					
Allowable voltage range		90 to 110% of rated voltage					
Power consumption		Max. 3VA (100-240VAC~), Max. 1.5W (24-240VDC==)					
Return time		Max. 100ms					
Timing operation		Power ON Start					
Control	Contact type	L contact: SPST (1a), Δ contact: SPST (1a)					
output	Contact capacity	250VAC~ 3A, 30VDC== 3A resistive load					
Relay life cycle	Mechanical	Min. 10,000,000 operations					
	Electrical	Min. 100,000 operations (250VAC 3A resistive load)					
Repeat error		Max. ±0.2% ±10ms					
人 setting error		Max. ±5% ±50ms					
Voltage error		Max. ±0.5%					
Temperature error		Max. ±2%					
人 -∆ switching time error		Max. ±25%					
Insulation resistance		Over 100MΩ (at 500VDC megger)					
Dielectric strength		2,000VAC 50/60Hz for 1 min					
Noise immunity		±2kV the square wave noise (pulse width 1μs) by noise simulator					
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour					
Vibration	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min					
Shock	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction 3 times					
	Malfunction	100m/s² (approx. 10G) in each X, Y, Z direction 3 times					
1 1	Ambient temp.	-10 to 55°C, storage: -25 to 65°C					
	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH					
Approval		CE c Sus					
Accessory		Bracket					
Unit weight		Approx. 72g					

X1: Refer to time specifications for control time setting range. XEnvironment resistance is rated at no freezing or condensation. SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

(L) Power Controllers

(N) Timers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

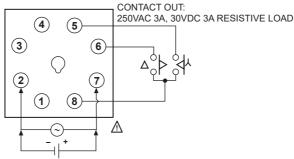
(T) Switching Mode Powe Supplies

(U) Recorders

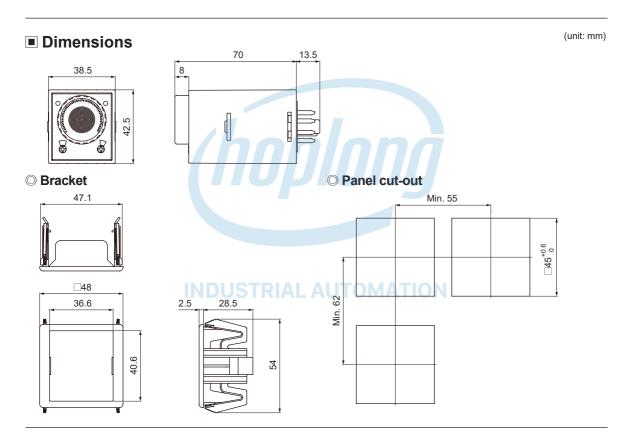
(X) Field Network

ATS8SD-4^{CÔNG} TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

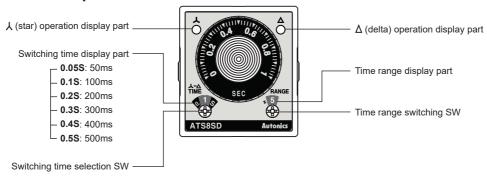
Connections



SOURCE: 100-240VAC 50/60Hz, 24-240VDC universal



■ Unit Description



N-56

CÔNG TY CỔ PHẨN CÔNG NGHỆ HỢP LONG Compact Star-Deita Analog Timer

■ Time Specifications

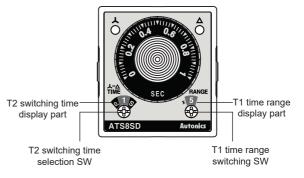
1. T1 (setting time) time

Time range	Time unit	Time setting range	
5		0.5 to 5 sec	
10	SEC	1 to 10 sec	
50		5 to 50 sec	
100		10 to 100 sec	

2. T2 (λ -Δ switching time) time

(unit: sec)

Switching time display part	0.05S	0.18	0.28	0.38	0.48	0.58
T2 (从 -∆ switching time)	0.05	0.1	0.2	0.3	0.4	0.5



SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

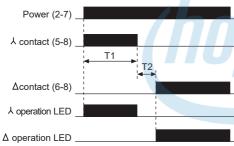
(L) Power Controllers

(M) Counters

(N) Timers

Operation

When power is applied, ⅄ contact will be ON. When reaching to T1 setting time, ⅄ contact will be OFF and ∆ contact will be ON after switching time of T2 is passed. If the power is OFF, A contact will be OFF.



 $(\lambda \text{ contact and } \Delta \text{ contact are OFF simultaneously at power ON})$

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S)

Sensor Controllers

(T) Switching Mode Powe Supplies

(U) Recorders

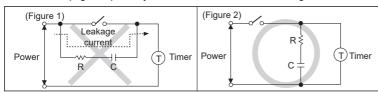
(V) HMIs

(W) Panel PC

(X) Field Network

Proper Usage

- Follow instructions in 'Proper Usage'. Otherwise, it may cause unexpected accidents.
- When supplying or turning off the power, use a switch or etc. to avoid chattering.
- Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.
- In order to avoid leakage current flowing, connect resistance and condenser as (Figure 2). If connect as (Figure 1), it may cause malfunction due to leakage current.



- Keep away from high voltage lines or power lines to prevent inductive noise. In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input
- Do not use near the equipment which generates strong magnetic force or high frequency noise.
- Change setting time(T1), ⊥-∆ switching time or etc. after turning off the power of the timer.
- This product may be used in the following environments.
 - ①Indoors (in the environment condition rated in 'Specifications')
 - ②Altitude max. 2,000m
 - ③Pollution degree 2
 - (4) Installation category II