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



Ordering Information

ATS	8 SD - 4		
	Power supply	4	100-240VAC 50/60Hz, 24-240VDC universal
	Time operation	SD	Star-Delta type
	Number of plug pins	8	8-pin plug type
Item		ATS	Small Analog Timer
		V0:	

**8-pin socket (PG-08, PS-08(N), PS-M8) is sold separately.

Specifications

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	Ա contact: SPST (1a), Δ contact: SPST (1a)				
output	Contact capacity	250VAC∼ 3A, 30VDC= 3A resistive load				
Relay	Mechanical	Min. 10,000,000 operations				
life cycle	Electrical	Min. 100,000 operations (250VAC 3A resistive load)				
Repeat error		Max. ±0.2% ±10ms				
人 setting	error	Max. ±5% ±50ms				
Voltage e	error	Max. ±0.5%				
Temperature error		Max. ±2%				
人 -∆ swit	tching time error	Max. ±25%				
Insulation resistance		Over 100MΩ (at 500VDC megger)				
Dielectric	strength	2,000VAC 50/60Hz for 1 min				
Noise im	munity	±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				
Environ-	Ambient temp.	-10 to 55°C, storage: -25 to 65°C				
ment	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH				
Approval		(
Accessory		Bracket				
Unit weight		Approx. 72g				

※1: Refer to time specifications for control time setting range.※Environment resistance is rated at no freezing or condensation.

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

K) SSRs

(L) Power Controllers

(M) Counters

(N) Timers

(O) Digital Panel Meters

> P) idicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

(T) Switching Mode Power Supplies

(U) Recorders

V)

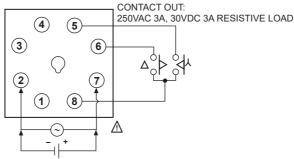
w

Panel PC

(X) Field Network Devices

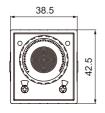
Autonics N-55

Connections

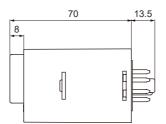


SOURCE: 100-240VAC 50/60Hz, 24-240VDC universal

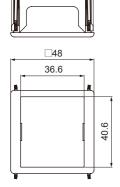
Dimensions

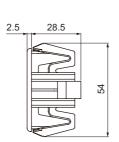


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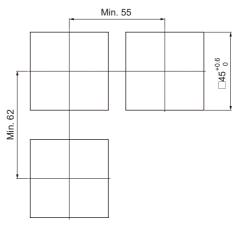


O Bracket



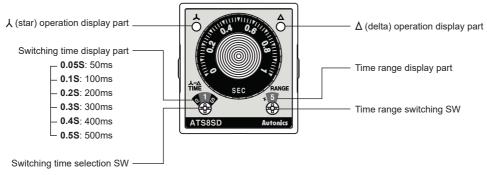


O Panel cut-out



(unit: mm)

Unit Description



N-56 Autonics

Compact Star-Delta Analog Timer

■ Time Specifications

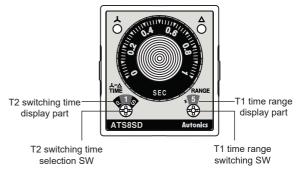
1. T1 (setting time) time

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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	0.058	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

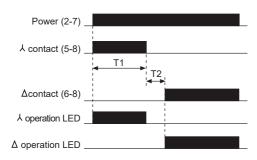
CONTROLLERS

MOTION DEVICES

SOFTWARE

Operation

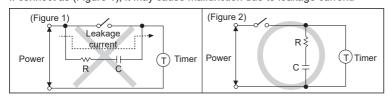
When power is applied, A contact will be ON. When reaching to T1 setting time, A contact will be OFF and Δ contact will be ON after switching time of T2 is passed. If the power is OFF, A contact will be OFF.



(λ contact and Δ contact are OFF simultaneously at power ON)

■ 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 signal line.

Do not use near the equipment which generates strong magnetic force or high frequency noise.

- ullet Change setting time(T1), \bot - \triangle 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

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>) SRs

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