W 48 × H 48 mm

Analog Timers

ATN Series

Features

- Wide range of power supply:
  100 - 240 VAC～ 50 / 60 Hz, 24 - 240 VDC⎓ / 24 VAC～ 50 / 60 Hz, 24 VDC⎓ / 12 VDC⎓
- Various output operation (6 operation modes)
- Multi time range (16 types of time range)
- Wide control time (0.05 sec to 100 hour)
- Easy setting of time, time range, output operation mode
- Easy to check output status by indicator

View product detail

Specifications

Model	AT8N-□	AT11DN-□	AT11EN-□
Function	Multi Function Timer		
Return time	≤ 100 ms		
Time operation	Power ON Start	Signal ON Start	
Input	-	INHIBIT, START, RESET	
Min. signal width	-	≈ 50 ms	
No-voltage input	-	Short-circuit impedance: ≤ 1 kΩ Short-circuit residual voltage: ≤ 0.5 VDC⎓ Open-circuit impedance: ≥ 100 kΩ	
Control output	Relay		
Contact type	Time limit DPDT (2c), Time limit SPDT (1c) + Instantaneous SPDT (1c)	Time limit DPDT (2c)	Time limit SPDT (1c) + Instantaneous SPDT (1c)
Contact capacity	250 VAC～ 5 A, 30 VDC⎓ 5 A resistive load	250 VAC～ 5 A, 24 VDC⎓ 5 A resistive load	250 VAC～ 5 A, 30 VDC⎓ 5 A resistive load
Error	Repeat: ≤ ± 0.2% ± 10 ms SET: ≤ ± 5% ± 50 ms Voltage: ≤ ± 0.5% Temp.: ≤ ± 2%		
Approval	CE c UL us EAC		
Unit weight (packaging)	≈ 86.71 g (≈ 134.12 g)	≈ 85 g (≈ 132.2 g)	≈ 87.5 g (≈ 134.7 g)
Power supply	100 - 240 VAC～ ± 10% 50 / 60 Hz, 24 - 240 VDC⎓ ± 10%	12 VDC⎓ ± 10%	24 VAC～ ± 10% 50 / 60 Hz, 24 VDC⎓ ± 10%
Power consumption	It depends on the model.		
AT8N-□	AC: ≤ 4.3 VA DC: ≤ 2 W	DC: ≤ 1.5 W	AC: ≤ 4.5 VA DC: ≤ 2 W
AT11DN-□	AC: ≤ 3.5 VA DC: ≤ 1.5 W	DC: ≤ 1 W	AC: ≤ 4 VA DC: ≤ 1.5 W
AT11EN-□	AC: ≤ 4.3 VA DC: ≤ 2 W	DC: ≤ 1.5 W	AC: ≤ 4.5 VA DC: ≤ 2 W
Insulation resistive	≥ 100 MΩ (500 VDC⎓ megger)		
Dielectric strength	2,000 VAC～ 50 / 60 Hz for 1 min		
Noise immunity	± 2 kV square-wave noise by noise simulator (pulse width 1 μs)	± 500 V 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 (≈ 30 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)		