

# S1DXM-A/M

## SPECIFICATIONS

Item		Specifications						
Rating	Rated operating voltage	24VAC	100 to 120VAC	200 to 220VAC	220 to 240VAC	12VDC	24VDC	
	Rated frequency	50/60Hz common						
	Rated power consumption		Max. 3 VA (at 24 VAC)	Max. 3 VA (at 100 VAC)	Max. 3 VA (at 200 VAC)	Max. 3 VA (at 220 VAC)	Max. 2 W (at 12 VDC)	Max. 2 W (at 24 VDC)
		During time delay	Approx. 3mA	Approx. 3mA	Approx. 3mA	Approx. 3mA	Approx. 5mA	Approx. 3mA
	After time delay	Approx. 80mA	Approx. 20mA	Approx. 13mA	Approx. 13mA	Approx. 70mA	Approx. 40mA	
	Rated control capacity	Timed -out 2 Form C: 7A 250V AC (resistive load) Timed -out 4 Form C: 5A 250V AC (resistive load)						
Operation mode	S1DXM-A Power on delay operation fixed (Power display: ON/green; Operation display (when output is on): UP/orange)  S1DXM-M 4 switchable operations: Power ON-delay/Power Flicker OFF start/Power Flicker ON start/Power One-shot (Power display: ON/green; Operation display (when output is on): UP/orange)							
Time accuracy*1	Operating time fluctuation & Power off time change error	Max. $\pm 1\%$ , (power off time change at the range of 0.1 s to 1 h), 1 s range: Max. $\pm 1\%$ and 10 ms*2						
	Voltage error	Max. $\pm 1\%$ (at the operating voltage changes between $-20$ to $+10\%$ ), 1 s range: Max. $\pm 1\%$ and 10 ms*2						
	Temperature error	Max. $\pm 5\%$ (at 20°C ambient temp. at the range of $-10$ to $+50^\circ\text{C}$ $+14$ to $+122^\circ\text{F}$ )						
	Setting error	Max. $\pm 10\%$ , 1 s range: Max. $\pm 10\%$ and 20 ms						
Contact	Contact arrangement	Timed-out 2 Form C, Timed-out 4 Form C						
	Contact resistance (Initial value)	Max. 100m $\Omega$ (at 1A, 6V DC)						
	Contact material	Timed-out 2 Form C type: Silver alloy, Au plating Timed-out 4 Form C type: Silver alloy, Au plating						
Life	Mechanical (constant)	Min. 10 <sup>7</sup>						
	Electrical (constant)	2 $\times$ 10 <sup>5</sup> (at rated control capacity)						
Mechanical	Vibration resistance	Functional	10 to 55Hz: 1 cycle/min double amplitude of 0.25mm (10min on 3 axes)					
		Destructive	10 to 55Hz: 1 cycle/min double amplitude of 0.375mm (1h on 3 axes)					
	Shock resistance	Functional	Min. 98m/s <sup>2</sup> (4 times on 3 axes)					
		Destructive	Min. 980m/s <sup>2</sup> (5 times on 3 axes)					
Electrical	Allowable operating voltage range	80 to 110% of rated operating voltage						
	Reset time	Max. 0.1s						
	Insulation resistance (Initial value)	Between live and dead metal parts, between input and output, between contact sets, between contacts Min. 100 M $\Omega$ (at 500 V DC megger)						
	Breakdown voltage (Initial value)	Between live and dead metal parts: 2,000 Vrms for 1 min Between input and output: 2,000 Vrms for 1 min Between contact sets: 2,000 Vrms for 1 min Between contacts: 1,000 Vrms for 1 min						
	Max. temperature rise	70°C 158°F						
Operating conditions	Ambient temperature	$-10$ to $50^\circ\text{C}$ $+14$ to $122^\circ\text{F}$						
	Ambient humidity	35 to 85% RH (non-condensing)						
	Air pressure	860 to 1060 hPa						
	Ripple rate	DC type only, transmission wave rectification (ripple rate: approx. 48%)*3						
	Mass (Weight)	Approx. 45 g						
	Protective construction	IEC standard: IP40 (IP50 when using ADX18008 protective cover)						

Notes: \*1. Unspecified measuring conditions are rated operating voltage (in case of DC type, ripple rate of 5% or less), ambient temp. 20°C 68°F, and power off time 1 second.

\*2. Power one-shot 1 s range: +2% and 10 ms

\*3. When using with a transmission wave rectification, vibration resistance and shock resistance properties worsen compared to when using a stabilized power supply.