



Product Features

- Din sized enclosure for Track (Din rail) / Screw mounting.
- Front terminal protective cover for safety.
- LED indication for timing in progress.
- A1DA :External (zero volt / potential free) command contact for timing initiation.

Specifications

Model	A1D1 (8-30V DC)	A1D1(WB)	A1DA	A1DS			A1DH-1
Function	On-Delay	On-Delay	Signal Off-Delay	Star-Delta			Power Off-Delay
Rated supply voltage	8V-30V DC	380V AC	240 V/110 V AC /24 V DC	240V AC	110V AC	415V AC	240V AC
Operating voltage range	Min. 8V DC & Max. 30V DC	-30% to +20% of rated voltage	-20% to +10% of rated voltage				
Rated frequency	N.A	50 Hz \pm 5%					
Allowable ripple (for DC supply only)	3% maximum	N.A					
Power consumption	DC approx. 2W	AC approx. 20VA / 4W	AC approx. 10VA / 2W	AC approx.15VA / 3W	AC approx.10VA / 2W	AC approx.20VA / 4W	AC approx. 10VA / 2W
Control Output	2 c/o rated for 5A@250V AC / 28V DC, resistive load	1 c/o rated for 5A@250V AC / 28V DC 1A@415V AC, resistive load	1 c/o rated for 5A@250V AC / 28V DC, resistive load	Rated for 5A@250V AC / 28V DC, resistive load			2 c/o rated for 0.5A@250V AC / 28V DC, resistive load
Start signal	N.A		Potential free closure for min. of 150msec	N.A			
Minimum energization time	N.A						2sec
Temperature coefficient	N.A						0.5% max. for Every 1°C
Time range		3 Sec - 30 Sec	0.3Sec - 30Min	0.6Sec - 60Sec Transfer Time 40mSec, 100mSec			18Sec-180Sec
Range selection	3S, 30S, 3M, 30M	N.A	3S, 30S, 3M, 30M	0.6s, 60s Transfer Time 40mSec, 100mSec \pm 10mSec			N.A
Setting accuracy	\pm 10% max. w.r.t full scale \pm 100mSec						
Repeat accuracy	\pm 1% max. \pm 100mSec						\pm 2% max. \pm 100mSec
Recovery time	100mSec minimum	400mSec minimum	100mSec minimum	150mSec minimum			N.A
Variation due to voltage change	\pm 2% max. \pm 100mSec					\pm 5% max. \pm 100mSec@25°C	
Variation due to frequency change	N.A	\pm 2% max. \pm 100mSec					
Ambient temperature	Operation - 10° C to +55° C, Storage -25° C to +80° C						
Max. RH@40° C	Max. 85% RH@40° C						
10 ⁶ operations minimum	10 ⁶ operations minimum						
10 ⁵ operations minimum	10 ⁵ operations minimum						
1800 \pm 5% operations per hour maximum	1800 \pm 5% operations per hour maximum					180 \pm 5% operations per hour maximum	
Insulance resistance	> 100M ohms @ 500V DC						
	1. 2.5KV AC, 50Hz for 1min (Between current carrying & non current carrying parts.) 2. 1.5KV AC, 50Hz for 1min (Between contacts & control circuit 3. 1KV AC, 50Hz for 1min (Between non continuous contacts of the relay)						
	Screw type terminals with self lifting clamps						
	22.5 x 75 x 102mm (W x H x D)						
	A1D series						