A-Series 22.5mm Timers
A1D1 / A1D1-X / A1D1-X(60M) / A1D1(8-30V) / A1D1(WB) / A1D-Tx

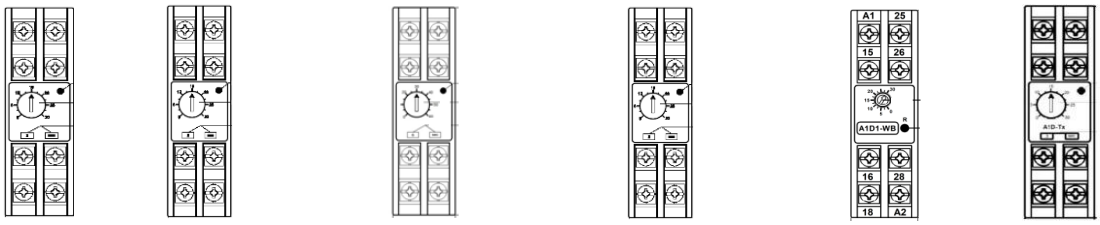
Features

- Suitable for Din-Rail mounting.
- Terminal block safety protective cover.
- LED indication for timing in progress.

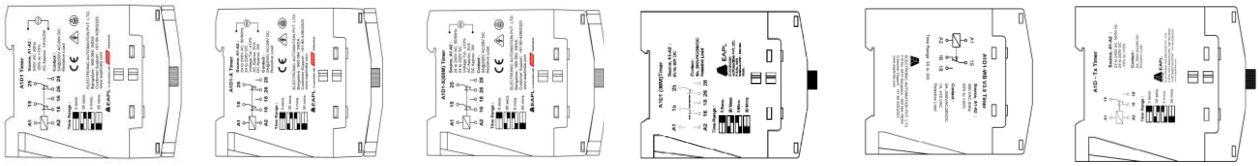
Ordering Information

Models	Function	Source Voltage	Time Selection	Output
A1D1	On Delay	240V AC	0.3Sec to 30Min	2 C/o Relay
A1D1-X		24V AC to 240V AC, 24V DC to 220V DC	0.3 Sec to 30 Min	
A1D1-X(60M)			0.6Sec to 60 Min	
A1D1(8-30V)		8V to 30V DC	0.3Secs to 30Mins	
A1D1(WB)		266V AC to 456V AC	3Secs to 30Secs	1 C/o Relay
A1D-Tx		24V AC to 240V AC, 24V DC to 220V DC	0.3Secs to 30Mins	

Front View A1D1 A1D1-X A1D1-X(60M) A1D1(8-30V) A1D1(WB) A1D-Tx



Side View A1D1 A1D1-X A1D1-X(60M) A1D1(8-30V) A1D1(WB) A1D-Tx



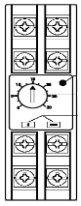
Over-all Dimension

Models	Dimension Details in mm		
	W	H	D
A1D1/A1D1-X/A1D1-X(60M)/A1D1(8-30V)/A1D1(WB)/A1D-Tx	22.5	75	103.8

Specifications

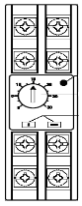
Parameters / Models	A1D1	A1D1-X	A1D1-X(60M)	A1D1(8-30V)	A1D1(WB)	A1D-Tx
Function	ON delay					
Rated supply Voltage	240V AC	24 to 240V AC & 24 to 220V DC		8V to 30V DC	380V AC	24 to 240V AC & 24 to 220V DC
Operating voltage range	-20% to+10%(Of supply voltage)	-10% to +10% (of supply voltage)		Min 8V & Max 30V DC	-30% to+20% of rated voltage	-10% to +10% (of supply voltage)
Rated Frequency	50 Hz ± 5%	50 / 60Hz ±5%		50 Hz ± 5%		50 / 60Hz ±5%
Allowable ripple (for DC supply)	-	3% maximum			-	3% maximum
Power consumption	AC approx.10VA	AC approx.5VA, DC approx.3W		DC approx. 2W	AC approx.20VA	AC approx.5VA, DC approx.3W
Control output					1c/o rated for 5A @250VAC/ 28VDC 1A@415V AC, resistive load	
Rated making current	5A @ 250V AC, 5A @ 28V(resistive)				-	
Max breaking current	5A @ 250V AC, 5A @ 28V(resistive)				-	
Min making & breaking	100mA @ 5V DC				-	
Time range	0.3 Sec to 30 Min		0.6Sec to 60Min	0.3 Sec to 30 Min	3Sec to 30Sec	0.3 Sec to 30 Min
Range selection	3 Sec, 30 Sec, 3 Min, 30 Min		6Sec, 60 Sec, 6 Min, 60 Min	3 Sec, 30 Sec, 3 Min, 30 Min	-	3 Sec, 30 Sec, 3 Min, 30 Min
Setting accuracy	± 10% max. w.r.t full scale ± 100mSec					
Repeat accuracy	± 1% max. ± 100mSec					
Recovery time	100mSec minimum				400mSec minimum	100mSec minimum
Variation due to voltage change	± 2% max. ± 100mSec					
Variation due to temperature change	± 5% max. ± 100mSec					
Variation due to frequency change	±2% max. ± 100mSec					
Ambient temperature	Operation : -10°C to +55°C Storage : -25°C to +80°C					
Humidity	MAX 85% RH @ 40°C					
Electrical life	10^5 operations minimum					
Mechanical life	10^6 operations minimum					
Rated frequency of operation	1800 ± 5% operations per hour max					
Insulation resistance	>100M ohms @ 500V DC					
Dielectric strength	01) 1.5KV AC (rms), 50Hz for 1minute.(Between input terminals & enclosure) 02) 1.5KV AC (rms), 50Hz for 1minute.(Between relay contact terminals & enclosure) 03) 1.5KV AC (rms), 50Hz for 1minute.(Between input terminals & relay contact terminals) 04) 2.0KV AC (rms), 50Hz for 10-30sec.(Between pole to pole of the relay) 05) 1.0KV AC (rms), 50Hz for 10-30sec (Between open contacts of the relay)				01) 2.5KV AC (rms), 50Hz for 1 minute.(Between current carrying & noncurrent carrying parts) 02) 1.5KV AC (rms), 50Hz for 1 minute.(Between contact & control circuit) 03) 750 V AC, 50Hz for 1 minute.(Between non-continuous relay contacts)	
Electrical connection	Screw type terminals with self lifting clamps					
Dimension (W x H x D)	22.5 x 75 x 103.8mm					

Connection and Terminal Details



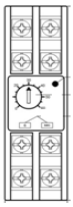
A1, A2 : Source Voltage
15, 16, 18 : C1,NC1, NO1
25, 26, 28 : C2,NC2, NO2

A1D1



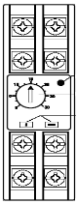
A1, A2 : Source Voltage
15, 16, 18 : C1,NC1, NO1
25, 26, 28 : C2,NC2, NO2

A1D1-X



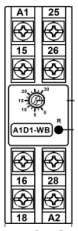
A1, A2 : Source Voltage
15, 16, 18 : C1,NC1, NO1
25, 26, 28 : C2,NC2, NO2

A1D1-X(60M)



A1, A2 : Source Voltage
15, 16, 18 : C1,NC1, NO1
25, 26, 28 : C2,NC2, NO2

A1D1(8-30V)



A1, A2 : Source Voltage
15, 16, 18 : C1,NC1, NO1

A1D1(WB)

A1, A2 : Source Voltage
15, 16, 18 : C1,NC1, NO1

A1D-Tx