

Features

- Din sized enclosure for track / Screw mounting.
- **B1DCA-X, B1DCA-T** :
 - Independently selectable ON & OFF time.
 - **B1DCA-T**
 - HOLD facility during power fail conditions.
 - Program enable or disable facility for tamper proof operation.
- **B1DS** :
 - Star to Delta transfer time delay of 40 mSecs / 100 mSecs, user selectable.
 - First set of Contacts for star, second set of Contacts for delta

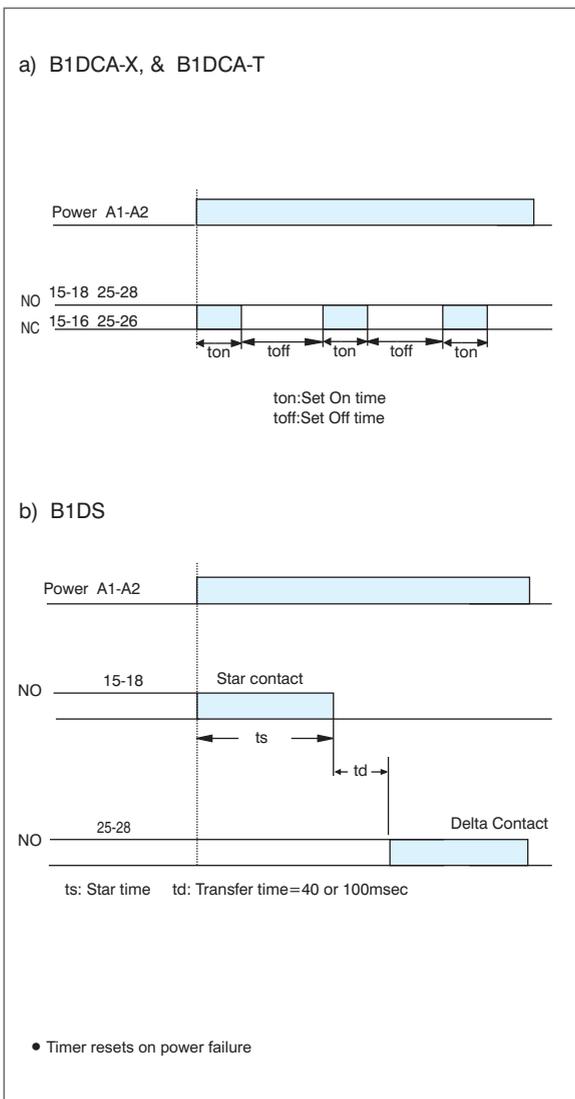


Ordering Information

Model	Function	Source Voltage	Time Range	Output
B1DCA-X	Cyclic adjustable On-Off timer	X- Version	0.6Secs to 60 Mins.	2 c/o Relay
B1DCA-T	Cyclic adjustable On-Off timer	240V AC / 110V AC	0.1Secs to 10 Hrs.	2 c/o Relay
B1DS	Star Delta timer	440V AC	0.6 Secs to 60 Secs.	1 c/o Star, 1 c/o delta

X-Version: 24V AC to 240V AC & 24V DC to 220V DC

Timing Diagram

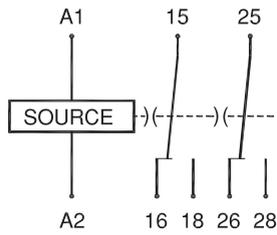


Specifications

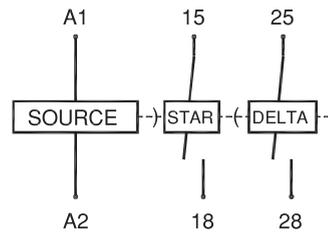
Operating Voltage Range	-20% to +10% of rated Voltage for B1DS -10% to +10% for B1DCA-X -15% to +10% for B1DCA-T
Rated Frequency	50 Hz ± 5%
Control Output	5A @ 250V AC / 28V DC resistive load
Setting Accuracy	±10%max. w.r.t full scale ±100mSec
Repeat Accuracy	±1% max. ±100mSec
Recovery Time	100mSecs min. (B1DCA-X), 150mSecs min (B1DS). & 500mSecs min.(B1DCA-T)
Rated Frequency of operation	1800 ±5% operations per hour max
Variation due to voltage change	±2%max ±100mSec
Variation due to temp.change	±5%max. ±100mSec
Variation due to freq. change	±2%max ±100mSec
Ambient temperature	Operation: -10°C to +55°C, Storage: -25°C to +80°C
Humidity	Max 85% RH@ 40°C
Service Life	10 ⁶ operations minimum (under no load)
Electrical Life	10 ⁵ operations minimum (under full load)
Electrical Connections	Screw type terminals with self lifting clamps
Power Consumption	AC Approx. 5VA / 1W , DC Approx. 2W (for B1DCA-X) AC Approx. 20VA / 4W for B1DS Approx. 15VA/3W for B1DCA-T
Insulation Resistance	>100M ohms @ 500V DC
Allowable Ripple	3% maximum (for DC supply)
Range Selection	B1DCA-T : 1s, 10 s, 1 m, 10m, 1h, 10h (ON / OFF) B1DS : 6s, 60s. Transfer time 40ms / 100ms ±10ms B1DCA-X : 6s, 18s, 36s, 60s, 3m, 6m, 30m, 60m (ON / OFF)
Dielectric Strength	a) 2.5KV AC,50Hz for 1minute. (Between current carrying and non-current carrying parts) b) 1.5KV AC, 50Hz for 1 minute. (Between contacts and control circuit) c) 1 KV AC, 50 Hz for 1minute. (Between non-continuous relay contacts) 750vac for B1DS
Dimensions	45 x 77.2 x 115.4 mm [W x H x D]

Connections

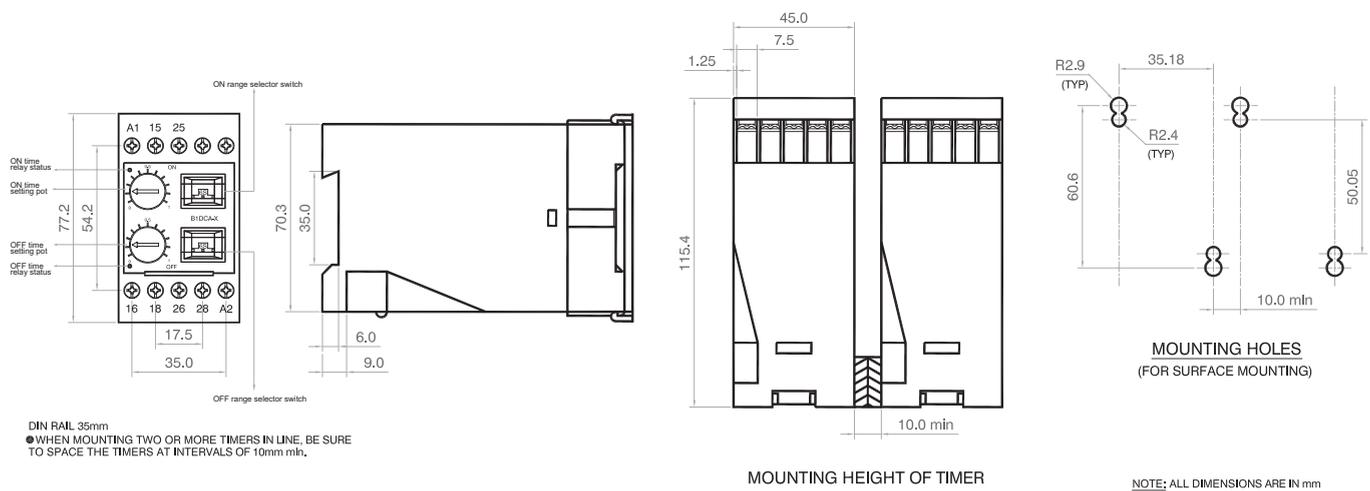
B1DCA-X, B1DCA-T



B1DS TIMER



Dimensions



Hints on correct use

- Change the positions of respective range selector switches of the timer & rotate the respective pot to get desired ON & OFF time setting with the flat blade screw driver.

⚠ Caution

- Do not change the time range & set time while the timer is in operation.
- Switch off the power while changing the time range & set time.
- Application of voltage other than the specified one will permanently damage the timer.
- Use 2.5mm² U-type lugs with sleeve.