



Product Features

- Din sized enclosure for Track (Din rail) / Screw mounting.
- B1DCA-T : HOLD / RESTART facility during power fail conditions.
- B1DCA-T : Auto / Manual switch for mode of operation
- B1DCA-T : Program - enable / disable facility for tamper proof operation.
- B1DCA-X, B1DCA-T : Independently selectable ON & OFF time.
- SPP-T :Trips under phase missing, phase reversal or phase unbalance
- In manual mode, terminals provided to connect to switch so as to manually switch ON and switch OFF load

Specifications

Model	B1DH-Q	B1DF	SPP-T	B1D-FR
Function	Power Off-Delay	On-Delay with instant contact	Phase Unbalance, Phase Failure, Negative Phase Sequence Monitor & Contol	Switch two Loads with delay in between in cyclic fashion
Rated supply voltage	110V AC to 240V AC 110V DC to 220V DC	24V DC 240V AC	415V AC, 3 phase	240V AC
Operation Voltage Range	-20% to +10% of rated voltage	-10% to +10% of rated voltage(For 24V DC) - 20% to +10% of rated voltage(For 240V AC)	-65% to +20% of rated voltage	-20% to +10% of the rated voltage
Rated frequency	50 / 60Hz \pm 5%	50Hz \pm 5%		
Trip Time Delay	N.A	N.A	Unbalance: 2.5 sec max , Unbalance response :10% \pm 3% ,Phase failure:2 sec max	N.A
Control relay output	2 c/o rated for 5A @ 250V AC / 28V DC resistive load	1 c/o Rated for 5A @ 250V AC / 28V DC resistive load		
Mode of Operation	N.A		Auto / Manual	N.A
On delay time	N.A		30 Sec \pm 4 Sec (Auto mode)	N.A
Power consumption	150mA peak current, 5mA once stabilized.	AC approx. 15VA / 3W (FOR 240V AC) Approx. 2W(FOR 24V DC)	AC approx.34VA / 7W	AC approx.30VA
Time range	6Sec - 60 Sec	0.3Sec - 30Min	N.A	Forward & Reverse 0.6Min to 6Min, Delay 0.1 Min to 1Min
Range selection	N.A	3S, 30S, 3M, 30M	N.A	N.A
Setting accuracy	\pm 10% max. w.r.t full scale \pm 100mSec		N.A	\pm 10% max. w.r.t full scale \pm 100mSec
Repeat accuracy	\pm 2% max. \pm 100mSec	\pm 1% max. \pm 100mSec	N.A	\pm 1% max. \pm 100mSec
Recovery time	N.A	100mSec minimum	100mSec minimum	150mSec minimum
Minimum energisation time	1Sec	N.A		N.A
Temperature co-efficient	\pm 0.5% max. for every1°C	N.A		N.A
Variation due to voltage change	\pm 2% max. \pm 100mSec		N.A	\pm 2% max. \pm 100mSec
Variation due to temperature change	\pm 5% max. \pm 100mSec @ 25°C	\pm 5% max. \pm 100mSec	N.A	\pm 5% max. \pm 100mSec
Variation due to frequency change	\pm 2% max. \pm 100mSec		N.A	\pm 2% max. \pm 100mSec
Ambient temperature	Operation -10°C to +55°C, Storage -25°C to +80°C			
Humidity	MAX 85% RH@40°C			
Service life (under no load)	10 ⁸ operations minimum			
Electrical life (under full load)	10 ⁵ operations minimum			
Rated frequency of operation	120 \pm 5% operations per hour maximum	1800 \pm 5% operations per hour maximum		
Insulation resistance	> 100M ohms@500V DC			
Dielectric strength	1. 2.5KV AC, 50Hz for 1minute. (Between current carrying & non current carrying parts.) 2. 1.5KV AC, 50Hz for 1minute. (Between contacts & control circuit.) 3. 1KV AC, 50Hz for 1minute. (Between non-continuous contacts of the relay.)			
Electrical connection	Screw type terminals with self lifting clamps			
Dimension	45 x 75 x 116mm (W x H x D)			
Allowable Ripple	N/A	3 % maximum(For 24V DC only)	N/A	
Enclosure (series)	B1D series		N/A	B1D series