



# Quick Reference Guide

## B Series Timer-B1DHQ

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# INTRODUCTION

Thank you for purchasing EAPL'S B series B1DH-Q Timer. This instruction manual describes every aspect of installation, set-up, and operation of the B1DH-Q Timer. If you run into difficulties and need technical assistance, feel free to call our technical support at (080) 8567561 available between 9 AM – 5:30PM IST or visit our web site at [www.eaplindia.com](http://www.eaplindia.com).

EAPL, an ISO 9001 company, leaders in Timer Technology Brings to you a new range of micro controller based programmable timers. High reliability, accuracy, compactness are some of the striking design features.

Uncompromising quality with cost effectiveness has been the watchword at EAPL.

## For Customer Use

Enter below the serial Number which is located on the timer cabinet. Retain this information for future reference.

Model No:

Serial No:

Batch No:

Date of Purchase:

Purchase Point:

## Accessories

- B series B1DH-Q Timer - 1 no.
- Quick Reference Guide
- Protective Cover

**NOTE:** Please acknowledge that we reserve the right to make changes in product performance or specifications without prior notice. Also please note that we bear no responsibility for mistakes, misprints or omissions of the instruction manual Specifications.

## Salient Feature

- Din sized (45mmX75mm) enclosure for track/screw mounting.
- Adjustable delay time up to 60 secs on power off.
- For terminal protective cover for safety.

## Ordering Information

Model	Function	Source Voltage	Time Range
B1DH-Q	Power off delay	110V to 240V AC/110V TO 220VDC	6 Secs to 60 Secs.

## Specification

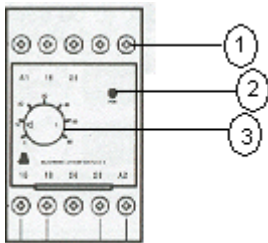
Operating Voltage Range	-20% to + 10% of rated voltage
Rated frequency	50/60 Hz $\pm 5\%$
Power consumption	150mA peak current, 5mA once stabilized
Control output	2c/o rated for 5A @ 250VAC/28VDC resistive load
Setting Accuracy	$\pm 10\%$ max. w.r.t. full scale $\pm 100$ msec
Repeat Accuracy	$\pm 2\%$ maximum $\pm 100$ msec
Energization Time	1 sec minimum
Rated frequency of operation	120 $\pm 5\%$ operations per hour max.
Insulation Resistance	>100M ohm@500VDC
Dielectric Strength	a) 2.5 KV AC ,50HZ for 1 min(between current carrying & non current carrying parts) b) 1.5 KV AC, 50HZ for 1 min(between contacts and control circuit) c) 1 KV AC, 50HZ for 1 min(between non continuous relay contacts)
Variation due to voltage change	$\pm 2\%$ max $\pm 100$ msec
Variation due to frequency change	$\pm 2\%$ max $\pm 100$ msec
Variation due to temp. change	$\pm 5\%$ max $\pm 100$ msec @ 25 degree C
Temperature Co-Efficient	$\pm 0.5\%$ max for every 1 degree C
Ambient Temperature	Operating: - 10 degree C to + 55 degree C Storage : - 25 degree C to + 80 degree C
Humidity	Max. 85% RH @ 40 degree C
Service Life(under no load)	$10^6$ operations minimum
Electrical Life (with full load)	$10^5$ Operations minimum
Connections	Screw type terminals with self lifting clamps
Dimensions	45x 75 x 116 mm [W x H x D]
Wire Size	2.5 mm <sup>2</sup> max.
Approx. Weight	300gms.

# Operating Instructions



- Do not change the time range while the timer is in operation.
- Switch off power while changing the time range.
- Application of voltage other than the specified one will permanently damage the timer

## Front Panel

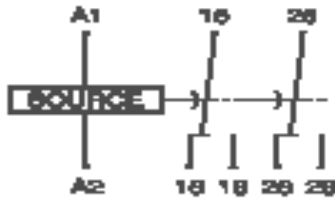


- 1**      **TERMINAL SCREW WITH SELF LIFTING CLAMP**
- 2**      **LED**  
This indicates the power ON indication.
- 3**      **KNOB**  
This is for the time delay selection.

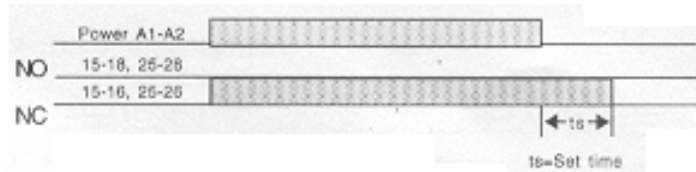
## Terminal Details

- A1, A2**                    : Source  
**15-16, 25-26**            : Normally Closed (NC)  
**15-18, 25-28**            : Normally Opened (NO)  
\* The timer resets on power interruption.

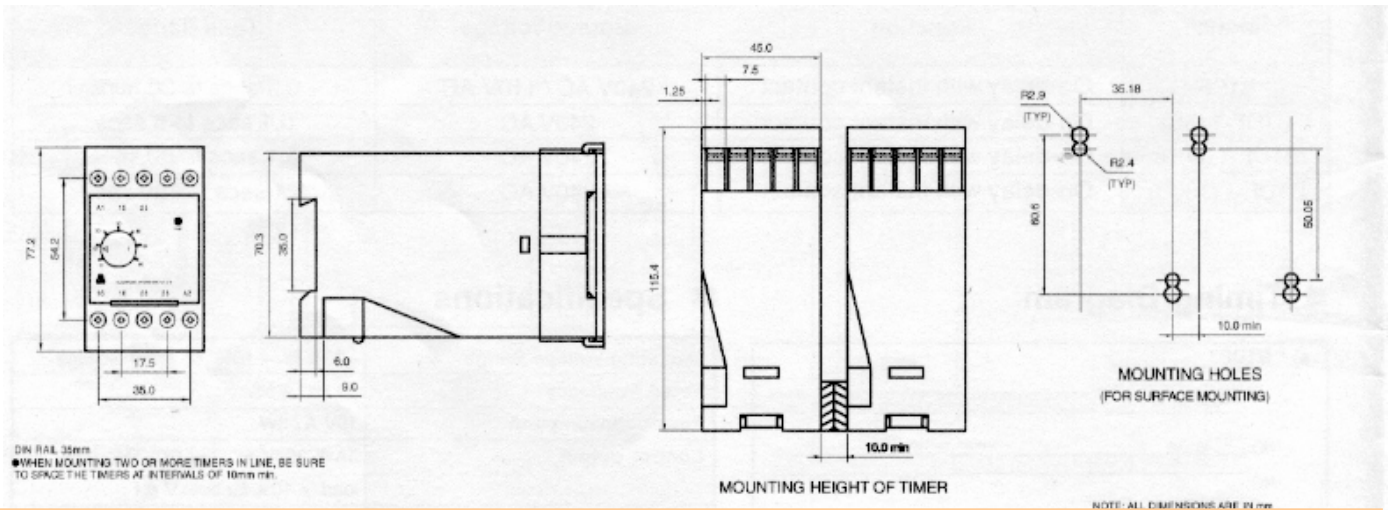
## Connection Diagram



## Timing Diagram



## Dimension



## How to select the time range

- Rotate the pot to get the desired time range.

## How to Operate the timer

- Set the required delay with the help of front knob.
- Apply rated voltage across A1, A2.
- Now the NO contacts will close.
- Interrupt the power to start the delay.
- At the end of the set delay the 2c/o contacts revert back to normal position.
- If the power is resumed when the delay is running. The previous delay is lost and the new delay does not start until the power is further interrupted.

- The timer should not be operated at more than 120 operations per hour.