

MULTIFUNCTIONAL TIME RELAYS LBA-6

LBA-6

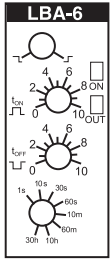
are microprocessor-based electronic time relays. They have precisely adjustable time ranges (between 0,1 s-30 hours for MCB-7; 0,1 s-999 minutes for MCB-8; 0,5 s-30 hours for MCB-9) and up to 4 different operating modes. With their thin and narrow designs, these time relays are designed for multi-purpose applications.

LBA-6

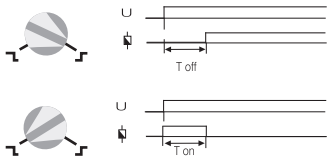
● ER MODE

● EM MODE

LBA-6 is a time relay that works as ER Mode or EM Mode according to the users needs. It can be adjusted between 0,1 seconds and 30 hours.



Mode Selection (Function Table)



TIME TABLE

TIME INTERVAL	ADJUSTABLE TIME RANGE
LBA-6	LBA-6
1 sec	0,1-1 sec
10 sec	0,1-10 sec
30 sec	0,1-30 sec
60 sec	0,1-60 sec
10 min	0,1 sec-10 min
60 min	0,1 sec-60 min
10 hours	0,1 sec-10 h
30 hours	0,1 sec-30 h

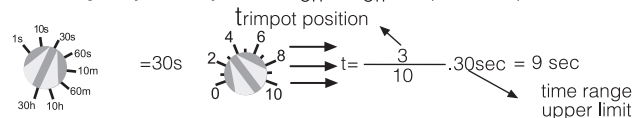
Adjusting The Times Adjusting the ON and OFF Times

LBA-6: The ON-OFF time is adjusted according to the following formula by using the time range selection trimpot.

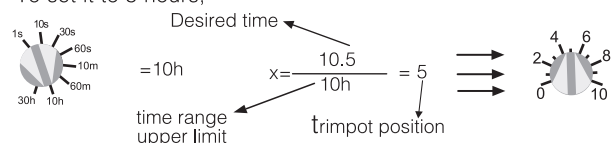
a, limit of the selected time range;
t, desired time;
x, trimpot position;

$$x = \frac{10 \cdot t}{a} \quad \text{and} \quad t = \frac{x}{10} \cdot a$$

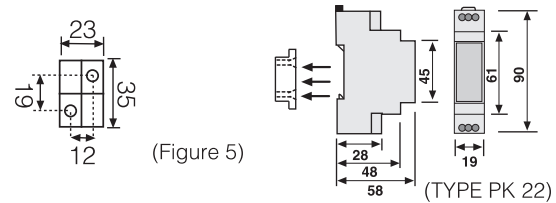
Example (LBA-6): If t_{on} or t_{off} trimpot is at position 3



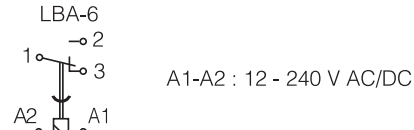
To set it to 5 hours;



Dimensions



Connection Diagram



Technical Data

Rated Voltage (U_n) : 12 - 240 V AC/DC
 Operating Range : (0.9-1.1) x U_n
 Operating Frequency : 50/60 Hz.
 Output Contact : 1 Changeover 8A/2000 VA (NO: 8A, NC: 6A) $\cos\phi = 1$
 Repetition Error : +/-0.1%
 Reset Time : <=150 msec.
 Ambient Temperature : -5°C ; +50°C
 Dimensions : Type PK22
 Protection Class : IP 20
 Connection : Terminal connection, Rail-mount (Panel mount is available with the plastic adapter part. Refer to fig. 5)
 Package Weight : 2.5 kg. (24 pcs. per package)

Caution:

- 1) Operating voltage must raise to the indicated value in less than 1sec.
- 2) Do not use with generator.

PRECAUTIONS FOR INSTALLATION AND SAFE USE

- Failure to follow those instructions will result in death or serious injury.
- Disconnect all power before installing the equipment.
 - When the device is connected to the network, do not remove the front panel.
 - Do not try to clean the device with solvent or the like. Only clean with dry cloth.
 - Verify correct terminal connections when wiring.
 - Electrical equipment should be serviced only by your component seller.
 - Device is for panel mount only.
 - An F type fuse with 1 ampere limit current value must be used.

! No responsibility is assured by the manufacturer or any of its subsidiaries for any consequences arising out of the use of this material.