Chapter 50

STEPPING RELAY, LEDEX, TYPE LX/CS1/10107/DH3

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LIST OF ILLUSTRATIONS

LEADING PARTICULARS

Stepping relay, Type LX/CS1/10107/DH3	*Stores Ref. 5CW/5144*
Operating voltage	*24 d.c.*
Solenoid resistance at 20 deg. C. ...	*7·83 ohms ± 5 per cent*
Current on nominal voltage	*3·06 amp.*
Solenoid rotation	*Right-hand*
Angular stroke	*35 deg.*

Introduction

1. The stepping relay, Type LX/CS1/10107/DH3, incorporates a rotary solenoid driving a DH type Oak switch through a ratchet mechanism. It is similar to that shown in A.P.4343, Vol. 1, Sect. 11, Chap. 4, which also describes its general application and principle of operation.

DESCRIPTION

2. This stepping relay (*fig.* 1) incorporates three switch sections, No. 1 being the commutating switch, and No. 2 and 3 the load sections. Each load switch section has a signal-pole, six-position contact arrangement, with positions 1 to 6 operative, as shown in fig. 2. The front and rear are as viewed from the solenoid end of the unit.

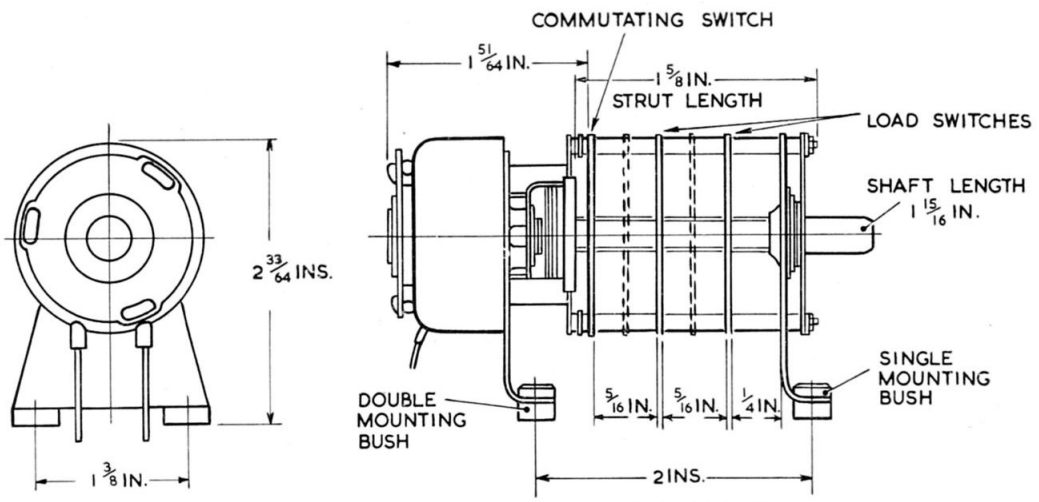

Fig. 1. Stepping relay, Type LX/CS1/10107/DH3

(A.L.78, Sep. 56)

3. No hold-in resistor is used with this stepping relay. A 1·0 mfd. capacitor is connected across the commutating switch for spark suppression.

4. The relay is designed for chassis mounting, with three rubber-bushed flexible mountings, as shown in fig. 1.

5. The current consumption is 3·06 amp. at the nominal voltage of 24 d.c.; at 21·6 volts it is 2·76 amp. The relay is designed for a permissible duty cycle of 1:4, i.e., energized for a maximum of one period out of every four.

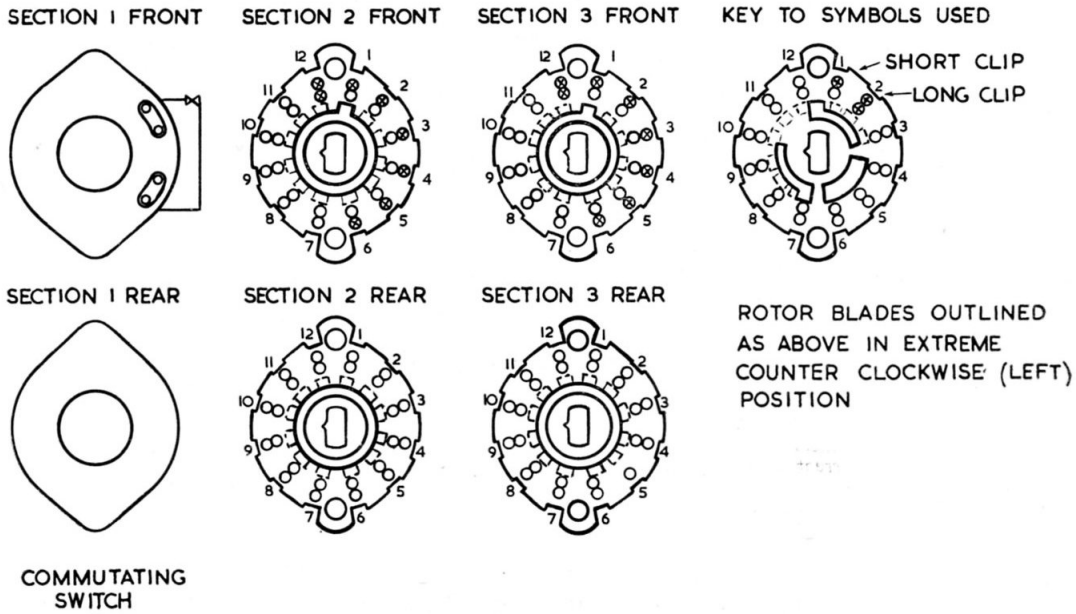

Fig. 2. Switch section contact arrangements