Chapter 51

STEPPING RELAY, LEDEX, TYPE LX/CS1/10589/DH7

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LEADING PARTICULARS

Stepping relay, Type LX/CS1/10589/DH7	*Stores Ref. 5CW/*
Operating voltage	*20 to 29 d.c.*
Solenoids resistance at 20 deg. C.	*13·04 ohms ± 5 per cent*
Current on nominal voltage	*1·84 amp.*
Solenoid rotation	*Right-hand*
Angular stroke	*35 deg.*

Introduction

1. The stepping relay, Type LX/CS1/10589/DH7, 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 seven switch sections, No. 1 being the commutating switch, and No. 2 to 7 the load sections. The various contact arrangements for each section are shown in fig. 2; the front and rear are as viewed from the solenoid end of the unit.

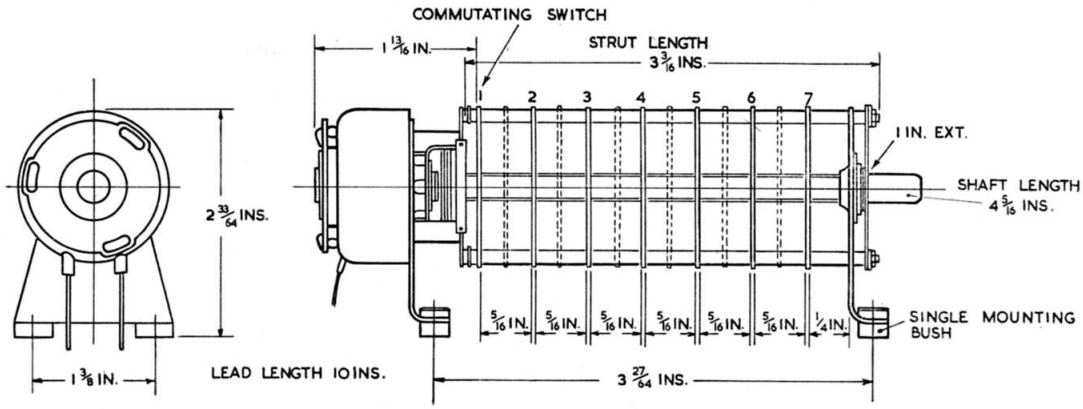

Fig. 1. Stepping relay, Type LX/CS1/10589/DH7

3. A 100-ohm, 5-watt hold-in resistor is used with this stepping relay. A 0·1 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 1·84 amp. at the nominal voltage of 24 d.c.; at the minimum of 20 volts it is 1·22 amp., and at the maximum of 29 volts it is 2·34 amp. The relay is designed for a permissible duty cycle of 1:5, i.e., energized for a maximum of one period out of every five.

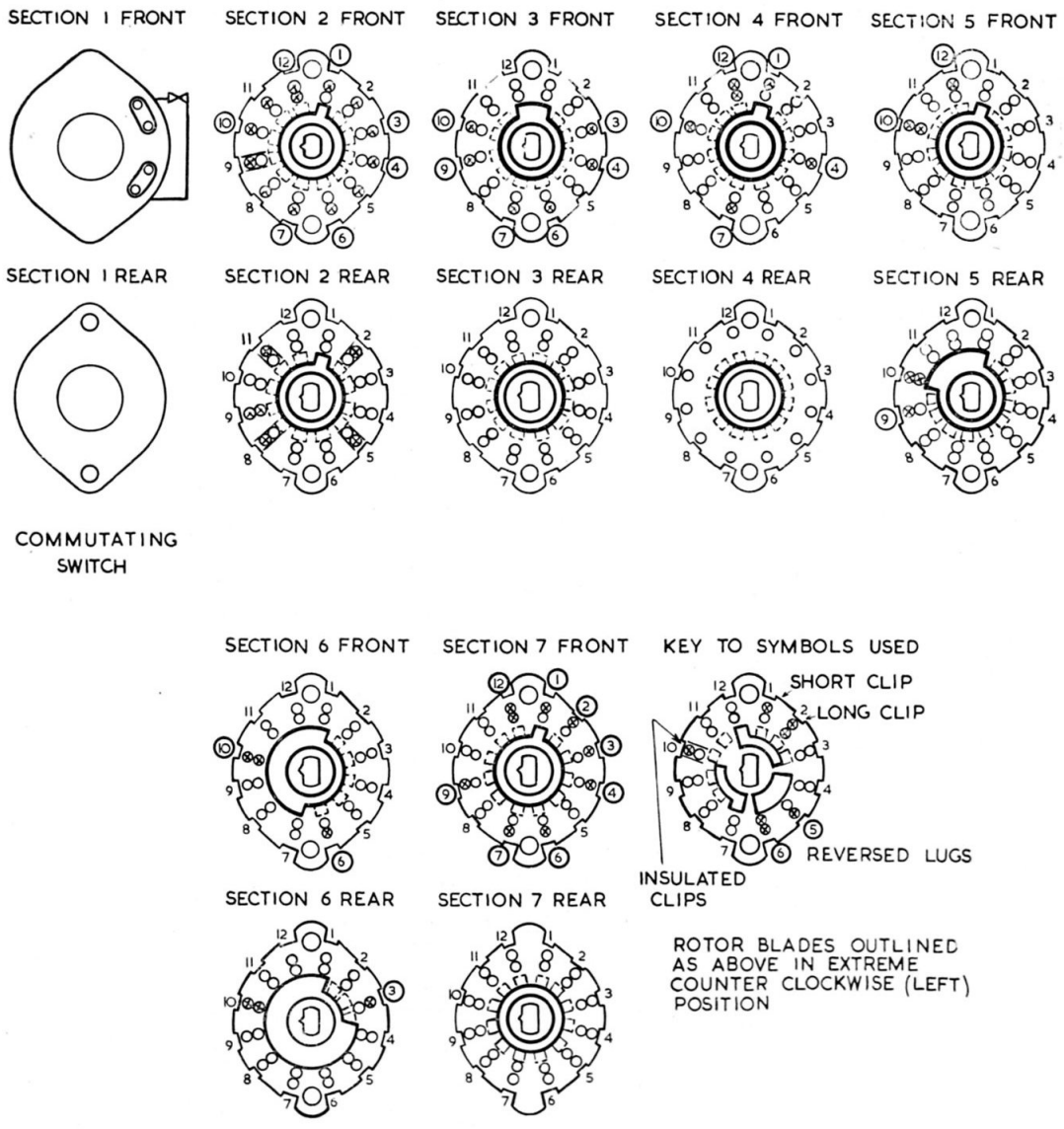

Fig. 2. Switch section contact arrangements