

## Chapter 5

### SWITCH, MAGNETIC, TYPE 13A, No. 1 (ROTAX D6103)

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#### LEADING PARTICULARS

Switch, magnetic, Type 13A, No. 1	...	Stores Ref. 5CW/4318
Operating voltage	...	16 to 29 volt. d.c.
Contact rating	...	50 amp. continuous
Minimum hold-on current	...	1.5 amp.
Coil rating	...	90 seconds
Electrical connections		
Contacts	...	Two $\frac{1}{4}$ in. B.S.F. terminals
Coil	...	Two 2 B.A. terminals
Mounting	...	Two holes 0.234 in. dia. spaced 3 in. at centres
Weight	...	3 lb.

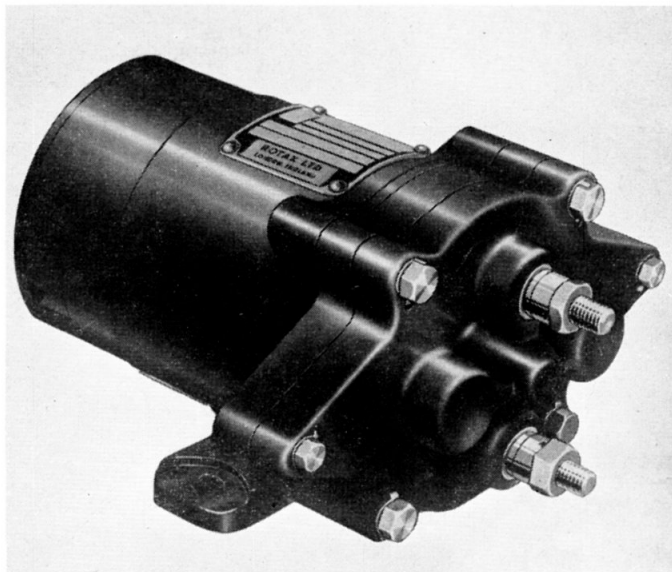


Fig. 1. Type 13A magnetic switch

**RESTRICTED**

(A.L.47, Nov., 55)

### Introduction

1. The Type 13A, No. 1 switch is a single pole relay intended for intermittent use on circuits carrying up to 120 volt. d.c. The operating coil supply must be 16 to 29 volt d.c. If the switch is used on 112 volt. systems, it must be insulated from the air-frame.

### DESCRIPTION

2. This unit is constructed as described for the D 6100 series (*A.P.4343, Vol. 1, Sect. 11, Chap. 5*) and consists of the basic relay with arcing contacts and no economy coil.

### SERVICING

3. Servicing for this unit is the same as described for the D 6100 series. The values in the operational check are given below.

- (i) The minimum current necessary to close the switch must be between 2.1 and 3.5 amperes. The product of minimum closing current and coil resistance must not exceed 16 volt.

- (ii) The switch must hold on until the current is reduced to between 1.5 and 0.3 ampere.

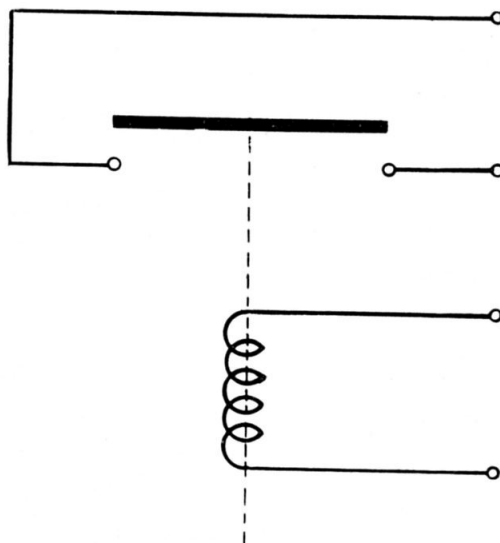


Fig. 2. Wiring diagram