

## Chapter 16

# SWITCH, MAGNETIC, TYPE 9A, No. 1 (ROTAX D9101)

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### LEADING PARTICULARS

Switch, magnetic, Type 9A, No. 1 ... ..	Stores Ref. 5CW/4387
Voltage, main contacts ... ..	112 V. d.c.
Voltage, auxiliary contacts ... ..	28 V. d.c.
Voltage, operating coil ... ..	28 V. d.c.
Current rating, main contacts ... ..	60 amperes
Current rating, auxiliary contacts ... ..	5 amperes
Rating ... ..	2 minutes
Operational ceiling ... ..	50,000 ft.
Temperature range ... ..	+50 deg. C to -70 deg. C
Weight ... ..	2 lb. 5 oz.

#### Introduction

1. This unit is included in the series of magnetically operated single pole contactors described in A.P.4343 Vol. 1, Sect. 11, and is designed for the remote switching of circuits whose current ratings do not exceed 60 amperes and which do not require to be excited for any period longer than two minutes.

#### DESCRIPTION

2. This unit is generally similar to others in the D.9100 series (A.P.4343, Vol. 1, Sect. 11, Chap. 11), both pairs of auxiliary contacts being open in the normal, i.e., de-energized position.

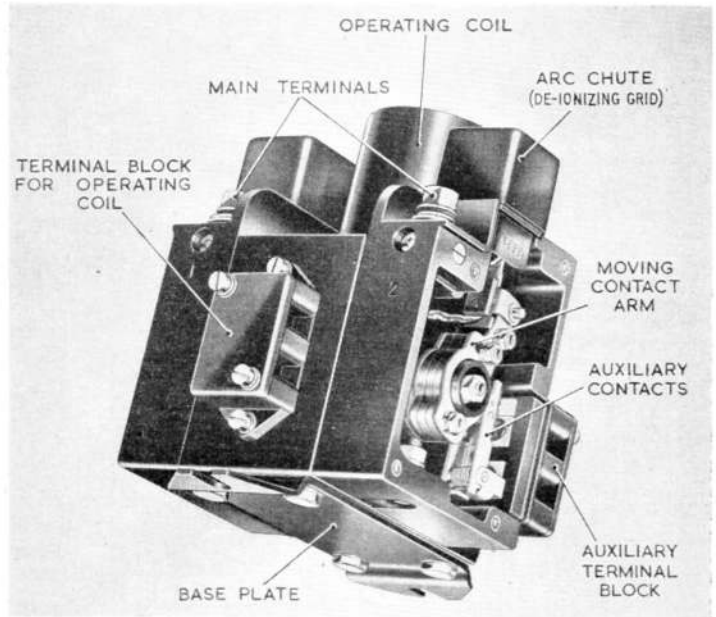


Fig. 1. View of switch (with cover removed)

(A.L.50, Dec. 55)

**RESTRICTED**

3. For details of operation and installation, reference should be made to the chapter mentioned in para. 2.

**SERVICING**

4. In addition to the tests given in A.P.4343, Vol. 1, Sect. 1, Chap. 11, apply the following insulation tests.

(a) With a 250 volt insulation resistance tester, measure the insulation resistance between the following.

(i) Terminal 1 and terminals 2, 3, 4, 5, 6, C1 and frame (contacts open).

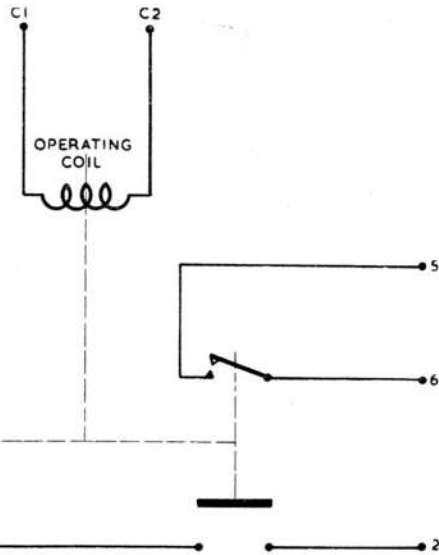
(ii) Terminal 1 and terminals 3, 5, C1 and frame (contacts closed).

(iii) Terminal 2 and terminals 3, 4, 5, 6, C1 and frame (contacts open).

(iv) Terminal 3 and terminals 4, 5, 6, C1 and frame (contacts open).

(v) Terminal 4 and terminals 5, 6, C1 and frame (contacts open).

(vi) Terminal 5 and terminals 6, C1 and frame (contacts open).



**Fig. 2. Diagram of internal connections**

(vii) Terminal 6 and terminal C1 and frame (contacts open).

A reading of not less than 2 megohm must be obtained.

(b) With the same instrument, measure the insulation resistance between terminal C1 and frame (contacts open); a reading of not less than 1 megohm must be obtained.

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