

Chapter 10

SWITCH, MAGNETIC, TYPE 6A, No. 1 (ROTAX D9001)

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LEADING PARTICULARS

Switch, magnetic, Type 6A, No. 1	Stores Ref. 5CW/4383
Overall dimensions of base	6.88 in. by 3.520 in.
Height	3.8 in.
Weight	4 lb. 4 oz.
<i>Current rating</i>	
Main contacts	60 amp.
Shunt field contacts	2.5 amp
Auxiliary contacts	5 amp. (29 volts)
<i>Voltage</i>	
Main and shunt field contacts	112V d.c.
Operating coil	29V d.c.
Coil resistance at 20 deg. C.	13.5 to 16.5 ohm
Temperature range	+40 deg C. to -70 deg. C.

Introduction

1. This magnetic switch, in common with others in the D9000 series, is designed for use in 112 V d.c. installations where a double-pole reversing contactor is required for short rated duties, e.g., to reverse the direction of rotation of an actuator motor.

DESCRIPTION

2. The Type 6A switch (*fig. 1*) is identical to that described in A.P.4343, Vol. 1, Sect. 11, Chap. 12. Its auxiliary contacts (terminals 1, 2, 3 and 4) are normally open, as indicated in *fig. 2*.

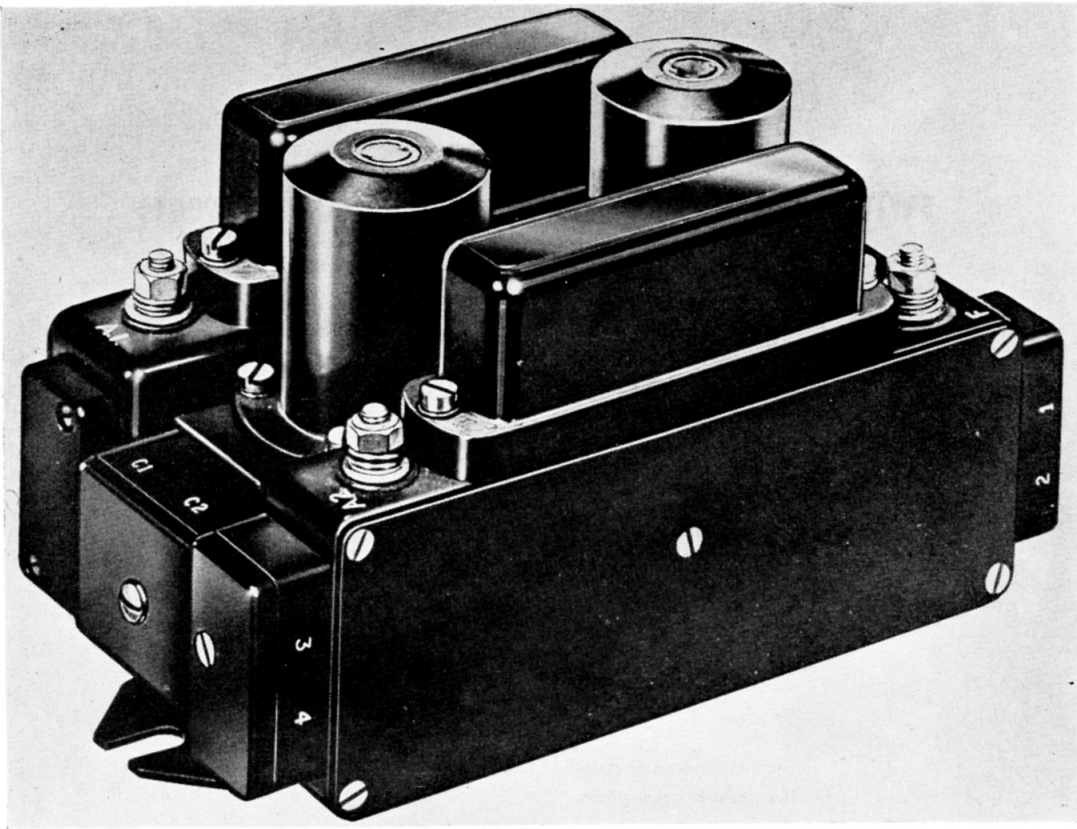


Fig. 1. Type 6A magnetic switch

SERVICING

3. Assuming that the unit has been correctly installed and operated, servicing will be restricted to visual inspection; if the unit is functioning satisfactorily, it should be assumed to be serviceable for continued use.

INSPECTION

4. Remove the covers and inspect the contact surfaces for signs of excessive pitting due to arcing. The unit must be removed from service and a new one fitted if the degree of pitting warrants it.

5. Inspect all the terminal points and ensure that the cables are securely connected and show no signs of damage due to vibration.

6. Inspect the mouldings and casting for signs of physical damage or distortion and ensure that the mounting bolts are securely locked.

OPERATIONAL TEST

7. After installing the unit in the aircraft, a test must be carried out to ensure that it functions correctly. The equipment controlled by the unit should be operated to ensure that a complete cycle of operations is not restricted and that the current consumption is within the stated limits.

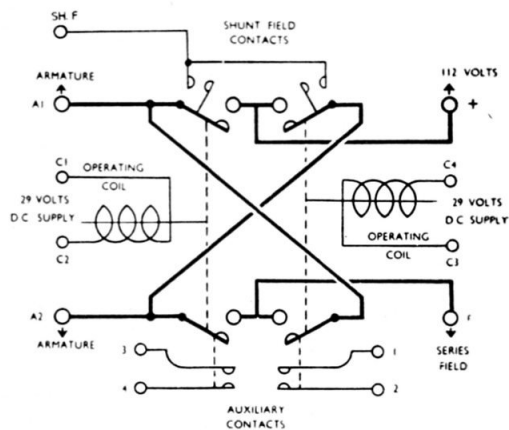


Fig. 2. Diagram of connections

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