

Chapter 37

SWITCH, THERMAL, ROTAX, TYPE D.6208/1

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LEADING PARTICULARS

Line voltage 208-V. a.c.; 400 c.p.s.
 Bi-metal element rating 50 amperes

Relay coil:

Nominal resistance at 20 deg. C. ambient temperature 219 ohm.
 Maximum voltage 29 V, d.c.
 Minimum operating voltage (cold) 16 V, d.c.
 Nominal coil current at 29-V, d.c. 0.132 ampere
 Operational ceiling 50,000 ft.
 Operational temperature range ... -70 deg. C. to + 50 deg. C.

Terminal connections (S.B.A.C. standard sockets and ferrules):

A.c. line sockets 37 ampere.
 A.c. line ferrules 36-64 ampere.
 Coil and contacts sockets 19 ampere.
 Coil and contacts ferrules 4 ampere.

Mounting holes:

Centres 1.625 in.
 Diameter 0.189 in.

Overall dimensions:

Length 3.437 in.
 Width 2.500 in.
 Height 2.328 in.
 Weight 10 oz.

Introduction

1. This thermal overload relay, in common with others in the D.6200 series, is used to provide thermal overload protection in aircraft circuits and is intended to be installed in a three-phase a.c. circuit.

DESCRIPTION

2. The type D.6208/1 thermal switch is illustrated in fig. 1 and is similar in construction to the 208-V 400 c.p.s. three-phase a.c. units described in A.P.4343 Vol. 1, Sect. 11, Chap. 6. Operating from a three-phase supply, the unit has three line connection strips and three bi-metal elements connected between terminals, A and L1, B and L2, C and L3 respectively. The three bi-metal elements are each positioned to operate the single trip bar if overloaded.

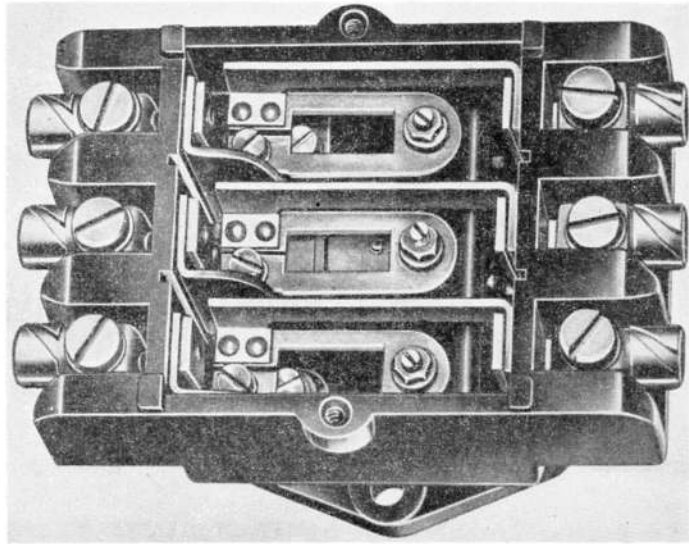


Fig. 1. Type D.6208/1 thermal switch without cover

3. Information on the functioning, installation and servicing of this unit will be found in A.P.4343, Vol. 1, Sect. 11, Chap. 6 and further details are given under Leading Particulars.

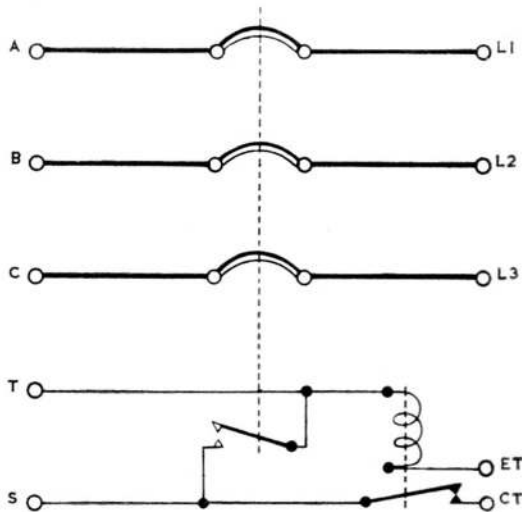


Fig. 2. Diagram of internal connections

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