# Chapter 39

# SWITCH, THERMAL, TYPE 2A, No. 4 (ROTAX D6269)

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## LIST OF ILLUSTRATIONS



## LEADING PARTICULARS

| | |
|---|---|
| Switch, thermal, Type 2A, No. 4 ... ... | Stores Ref. 5CW/5693 |
| Relay coil: | |
| Nominal resistance at 20 deg. C ambient temperature ... | 4,000 ohm. |
| Maximum voltage ... ... ... ... ... | 116–V. d.c. |
| Minimum operating voltage (cold) ... ... ... | 64–V. d.c. |
| Coil current at 116–V. d.c. ... ... ... | 0·031 amperes. |
| Overall dimensions | |
| Length ... ... ... ... ... ... ... | 3·437 in. |
| Width ... ... ... ... ... ... ... | 2·500 in. |
| Height ... ... ... ... ... ... ... | 2·328 in. |
| Weight ... ... ... ... ... ... ... | ... 10 oz. |
| Terminal connection (S.B.A.C.): | |
| Socket ... ... ... ... ... ... ... | 19 amperes |
| Ferrule ... ... ... ... ... ... ... | 4 amperes |
| Fixing holes: | |
| Centres ... ... ... ... ... ... ... | 1·625 in. |
| Diameter ... ... ... ... ... ... ... | 0·203 in. |

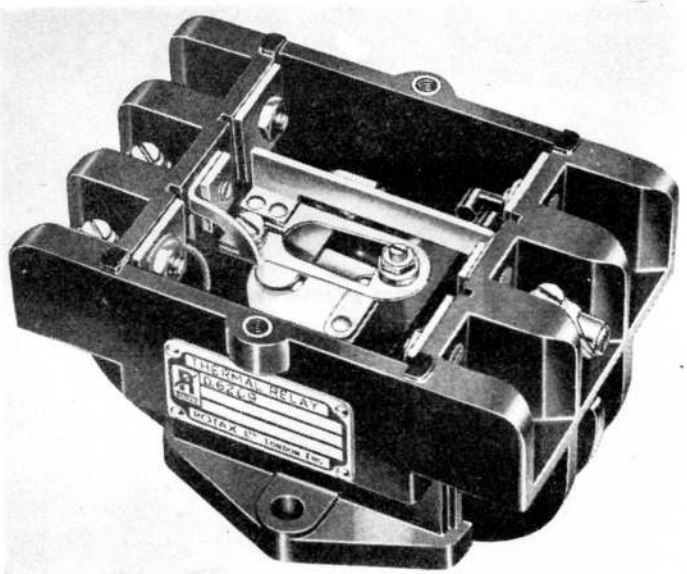


**Fig. 1. Type 2A, No. 4 thermal switch, without cover**

**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 single line d.c. circuit.

## DESCRIPTION

**2.** The Type 2A, No. 4 thermal switch is illustrated in fig. 1 and is similar in construction to those described in A.P.4343, Vol. 1, Sect. 11, Chap. 6. Operating from a single line d.c. supply, the unit has only one central line connection strip and one bi-metal assembly connected between terminals B and L2. There is an additional connection between one coil terminal and terminal L3 (*fig.* 2).

**3.** Information covering the functioning of this switch will be found in A.P.4343, Vol. 1, Sect. 11, Chap. 6 and details of operation are given under Leading Particulars. It should be noted, however, that, since there are no parts at 29 volts d.c., all the insulation resistance tests (*paras.* 18 *and* 19 *of the above mentioned chapter*) must be made with a 250 volt insulation resistance tester. Readings of 2 megohm must be obtained in each test.

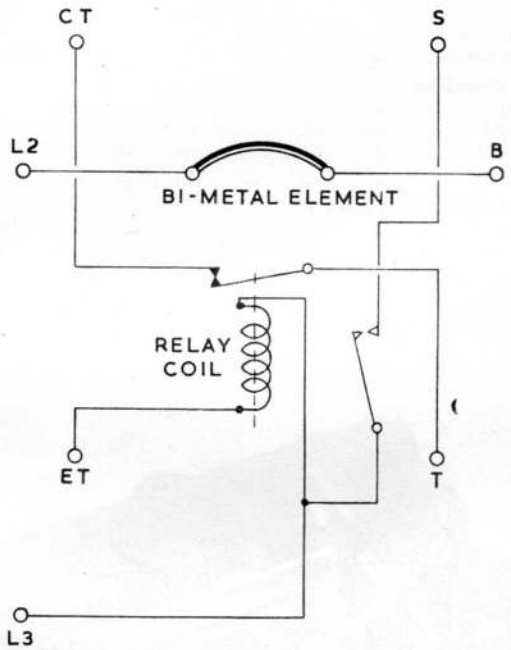


**Fig. 2. Diagram of internal connections**