

# Chapter 42

## SWITCH, THERMAL, TYPE 1a, No. 2 (ROTAX D8513)

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### LEADING PARTICULARS

Switch, thermal, Type 1A, No. 2	...	Stores Ref. 5CW/4407
Rating (200 per cent rated current)	...	200 amp.
Tripping time (25 deg. C. ambient)	...	60 to 75 seconds
Overall dimensions		
Length	...	4.500 in.
Width	...	3.500 in.
Height	...	2.562 in.
Weight	...	1 lb. 8 oz.
Main terminals (2)	...	$\frac{3}{8}$ in. dia. B.S.F. studs
Other terminals (2)	...	4 B.A. screws
Mounting holes (4)		
Size	...	2 B.A. clearance
Centres	...	3.750 in. by 3.000 in.

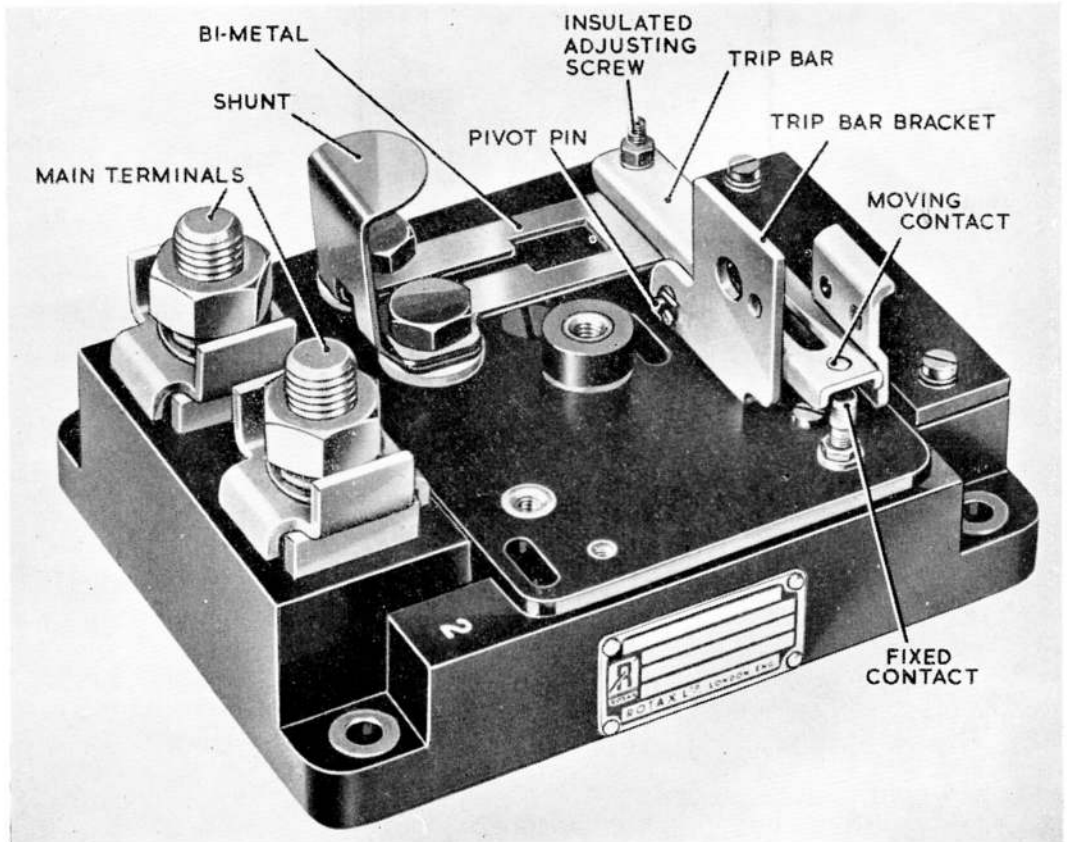


Fig. 1. Type 1A, No. 2, thermal switch (cover removed)

### Introduction

1. This thermal unit, in common with others in the D8500 series, is for use as an overload protection device in 112 volt aircraft circuits.

### DESCRIPTION

2. The Type 1A, No. 2 thermal switch (fig. 1) is identical to that described in A.P. 4343, Vol. 1, Sect. 11, Chap. 7. The unit is continuously rated and will give satisfactory operation at altitudes up to 50,000 ft. and in air temperatures between  $-65$  deg. C and  $+50$  deg. C.

3. Information covering the functioning and servicing of the unit will be found in the above mentioned chapter (*para.* 2) whilst details of operation and installation will be found under Leading Particulars. A diagram of internal connections is given in fig. 2.

### Note . . .

*The current rating and tripping time of this unit, as given under Leading Particulars, are based on 200 per cent rated current in an ambient temperature of 25 deg. C.*

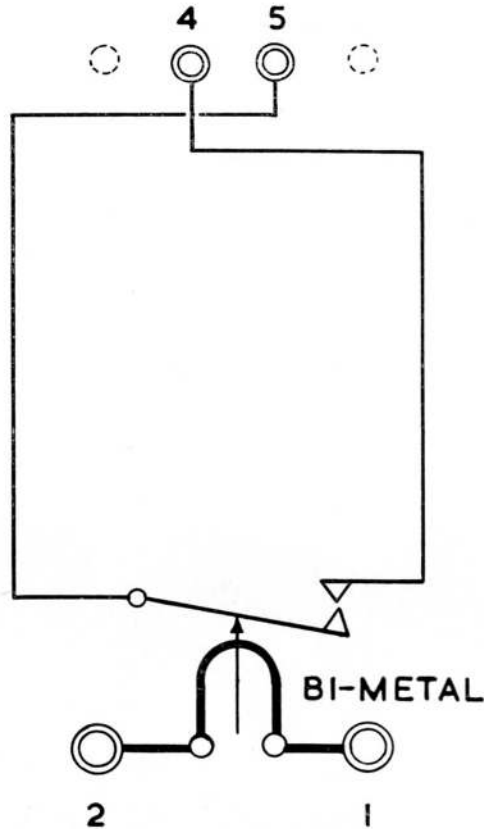


Fig. 2. Diagram of internal connections

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