Chapter 30

SWITCH, MAGNETIC, TYPE 3A, No. 3 (ROTAX F 3116)

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Switch, magnetic, Type	3A, No. 3 (cover removed)	_1//	Diagrai	m of inter	nal con	nections		 	2
	LEAD	ING P	ARTICU	LARS					
	Switch, magnetic, Type 3A, Coil voltage Operating coil resistance (112 V.) Swamp resistance (112 V.)	 12 V.)	 	 179 ohm	I	12-V, d.	c. nt m		
	Contacts I pair normally open I pair normally closed Rating	:			28 vol	olt, 5 am t, 5 am Continuo	р.		
	Overall dimensions of base Height				218 in. b	y 3.000 i 3.468 i			

Introduction

1. This magnetic switch (fig. 1) has been designed to serve as a general purpose relay in aircraft electrical systems and is fitted with a 112 volt operating coil.

Weight

DESCRIPTION

2. The Type 3A, No. 3 switch is similar in construction to that described in A.P.4343, Vol. 1, Sect. 11, Chap. 3, but differs from the latter in that the terminal positions normally marked 7 and 8 are not used for external connections and are sealed off. The position marked 8 is utilized for internal connections only.

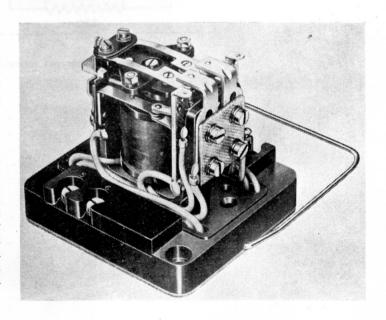


Fig. I. Switch, magnetic, Type 3A, No. 3 (cover removed)

(A.L.62, Mar. 56)

- **3.** A swamp resistance (410 ohm) is formed by connecting two resistors (820 ohm, 12 watt each) in parallel between terminal 1 and the terminal normally identified as 8 (*para.* 2). This arrangement is in series with a 1500 ohm, 12 watt economy resistor (which is shorted out until the relay is closed) and the operating coil. (*fig.* 2).
- 4. A pair of contacts, normally open and rated at 1 ampere (112 V.) or 5 amperes (28 V.), are connected to terminals 3 and 4 of the switch. The normally closed contacts are rated at 5 amperes (28 volt) and are connected to terminals 5 and 6.
- **5.** Other information relating to the installation and servicing of these switches will be found in A.P.4343, Vol. 1, Sect. 11, Chap. 3.

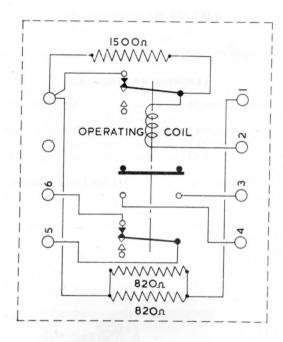


Fig. 2. Diagram of internal connections