Chapter 88

SWITCH MAGNETIC, ROTAX, TYPE D 6106/1

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LIST OF ILLUSTRATIONS

LEADING PARTICULARS

Operating voltage	29–V. max.
Contact rating...	650 amperes (peak)
Rating	90 seconds
Coil resistance	5·1 ohm ± 10 per cent
Electrical connections	
Contacts	Two $\frac{1}{4}$ in. B.S.F. terminals
Coil	Two 3 B.A. terminals
Mounting	Two holes 0·234 in. dia. spaced 3 in. at centres
Weight	3 lb.

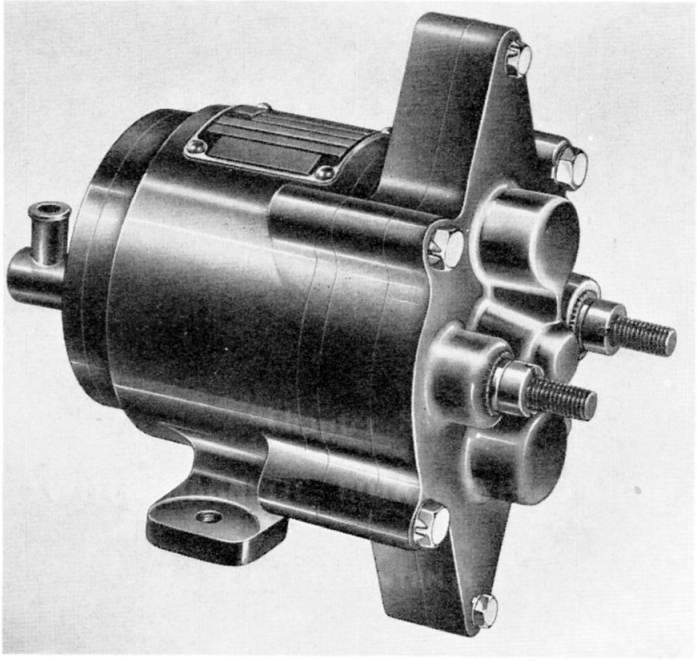

Fig. 1. D 6106/1 magnetic switch

Introduction

1. The Rotax, Type D 6106/1 magnetic switch is a single pole relay intended for intermittent use on circuits at voltages up to 120–V. d.c. and carrying peak currents up to 650 amperes. The operating coil requires a supply of 16–V. to 29–V. d.c. If the switch is to be connected to the main busbar of 112–V. d.c. systems, it must be insulated from the airframe.

DESCRIPTION

2. This unit is similar to others in the D 6100 series, which is described in A.P.4343, Vol. 1, Sect. 11, Chap. 5, and consists of a basic relay without economy coil. The contacts are fitted with spring-loaded carbon arcing tips to protect the main contact surfaces. The moulded contact housings are displaced 90 deg. from the position shown for the D 6100 series, so that the arc chutes are situated at top and bottom, and the contact terminals are in line horizontally.

SERVICING

3. Servicing for this unit is as detailed for the D 6100 series (*para.* 2). The values for the operational check are given below.

(*i*) The minimum current necessary to fully close the switch must be between 2·1 and 3·5 amperes. The product of the closing current and the actual resistance of the coil (*A.P.4343, Vol.* 1, *Sect.* 11, *Chap.* 5, *Para.* 10) at 20 deg. C. should not exceed 16–V.

(*ii*) The switch must hold on until the current is reduced to between 1·5 amperes and 0·3 ampere.

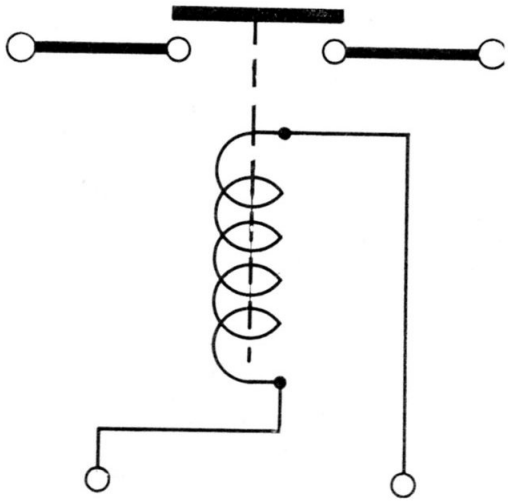

Fig. 2. Diagram of internal connections

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