

Chapter 83

MAGNETIC SWITCH, TYPE 16B, No. 7 (PAGE RN12)

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LEADING PARTICULARS

Magnetic switch, Type 16B, No. 7 ...	Stores Ref. 5CW/5702
Voltage ...	24 d.c.
Coil resistance at 15.6 deg. C. ...	670 ohms \pm 5 per cent
Contact rating ...	1 amp. at 60V d.c. 0.1 amp. at 300V d.c. or a.c.
Overall dimensions—	
Length ...	$3\frac{5}{16}$ in.
Width ...	$1\frac{3}{8}$ in.
Height ...	$3\frac{1}{8}$ in.
Weight ...	8½ oz.
Minimum circuit current ...	21.4 mA

Introduction

1. The magnetic switch, Type 16B, No. 7, is a sealed, miniature type relay with normal duty contacts; the contact arrangement is two change-over (break before make), and two change-over (make before break).

DESCRIPTION

2. This switch (*fig. 1*) consists of a sealed relay, Type M1093 (Inter - Service Ref. Z530012) secured to a moulded Bakelite base plate having shrouded 6 B.A. terminals. The switch is designed for panel mounting, and is provided with three rubber anti-vibration mountings incorporating 4 B.A. fixing studs.

3. The miniature relay, Type M1093, is described and illustrated elsewhere in this

Section. It incorporates an L-shaped pole piece, reduced in thickness at the armature end to form a step into which the armature fits and pivots on a flat spring attached to the pole piece. An extension on the armature passes along a slot in the long side of the pole piece, and an operating arm, riveted to the armature extension, operates the moving springs of the relay.

4. The springset is built up of flat springs with platinum contacts, and the complete assembly is fixed to the armature end of the pole piece. The coil is single wound, and, when energized, attracts the armature to operate the contacts.

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