

Chapter 18

CURRENT TRANSFORMER, TYPE AE5703 MK. 2

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LEADING PARTICULARS

<i>Current transformer, Type AE5703 Mk. 2</i>	<i>Ref. No. 5UB/6863</i>
<i>Ratio</i>	126 : 1
<i>Load</i>	6 VA
<i>Frequency</i>	400 c/s
<i>Temperature range</i>	-65° C. to + 70° C.
<i>Altitude range</i>	0-60,000 ft.
<i>Dimensions</i>	
<i>Height overall</i>	2.937 in.
<i>Width overall</i>	2.125 in.
<i>Length overall</i>	2.125 in.
<i>Weight</i>	8 oz.

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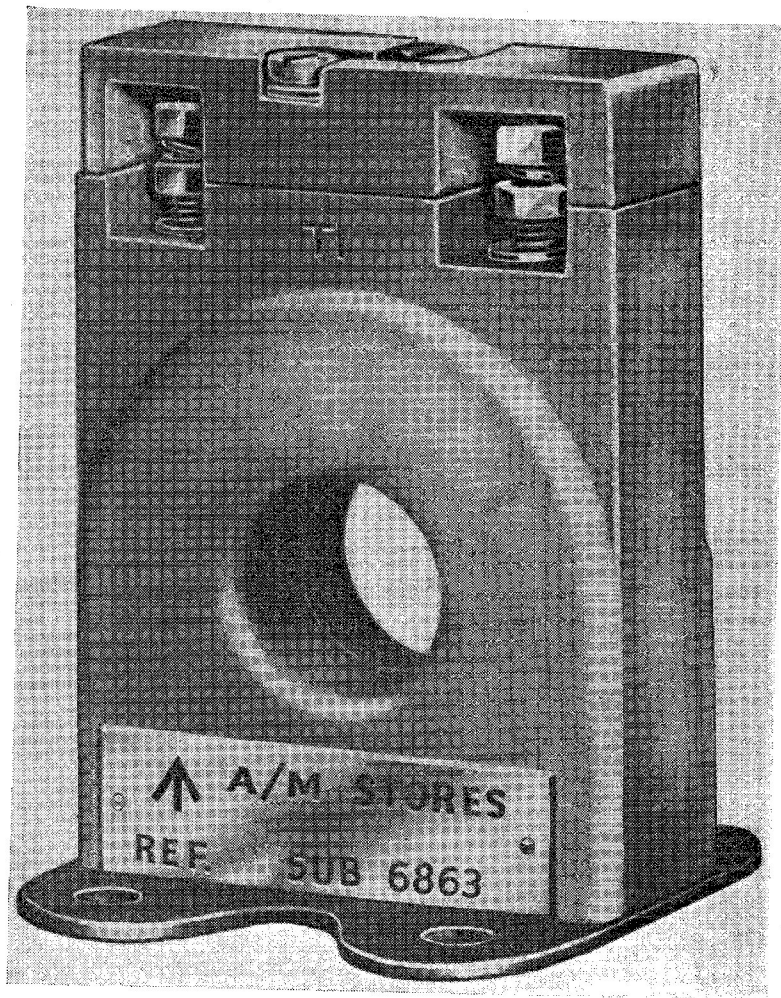


Fig. 1. Current transformer, Type AE5703 Mk. 2

Introduction

1. The Type AE5703 Mk. 2 current transformer is used in protection and load sharing circuits in 200 volts, 3 phase, 400 cycle multi-channel systems.

DESCRIPTION

2. The core of the transformer is spirally wound in ring form and manufactured from cold rolled, grain orientated silicon steel of high permeability. The secondary winding is evenly wound around the core, the terminals being of different size in addition to being clearly marked to prevent incorrect connections being made. The transformer is encapsulated in synthetic resin which increases the inherent strength and seals the

windings from humid conditions. The mounting flanges and terminals are manufactured from stainless steel. The direction of the aircraft cable run forming the primary is indicated to ensure correct installation.

SERVICING

3. Little servicing can be effected other than to check the security of attachment bolts, screws and electrical connections.

Insulation resistance test

4. The insulation resistance between the mounting feet and the secondary winding should be measured using a 500 volt insulation resistance tester. The minimum permissible reading is 5 megohms.

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