RESTRICTED

BEARING RESOLVER OUTFIT PAB

SUMMARY OF DATA

PURPOSE

To receive magnetic bearing information from a radar aerial and convert this information into a two phase signal suitable for feeding to remote fixed-coil P.P. T. displays.

BRIEF DESCRIPTION

A 400 Hz magnetic line is used for transmission from the radar aerial to the Bearing Resolver Outfit and the output from the latter is to the form a sine # and A cosine # where # is the angle between the aerial and a fixed datum line (either true north or ship's head) and A is a constant which in this equipment is 80 volts. There is a common earth return for both phases. Normally, up to 15 display outfits of the PPA series or any number of display units with a total load impedance of not less than 1500 ohms may be fed from one Bearing Resolver Outfit.

Early production cabinets have been modified to include a third grille, later cabinets have two grilles, as indicated in lower illustration.

MAJOR UNIT

Pattern 64764 Cabinet, Design 189. Bearing Resolver
The following chassis are contained in the cabinet:-
Pattern 64713 Phase Sensitive Rectifier Chassis, Design 5
Pattern 64711 Oscillator Chassis, Design 1
Pattern 64713 Voltage Regulator Chassis, Design 4
Pattern 64715 Power and Resolver Chassis.

PHYSICAL DATA

Bearing Resolver Cabinet (containing chassis) -

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
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<tbody>
<tr>
<td>279 in</td>
<td>189 in</td>
<td>154 in</td>
<td>255 lb</td>
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POWER REQUIREMENTS AND CONSUMPTION

Main Input

- 115 V, 50-60 Hz: 10 A, 0.5 A
- 230 V, 50-60 Hz: 10 A, 2.5 A
- or 400 V, 50-60 Hz: 10 A, 1.175 A
- or 200 V, 400 Hz: 10 A, 2.5 A

Fan Supply

- 115 V, 50-60 Hz: 0.64 A
- or 230 V, 50-60 Hz: 0.32 A

Anti-Directional Motors

- 115 V, 50-60 Hz: 0.15 A
- or 230 V, 50-60 Hz: 0.35 A
- or 115/230 V d.c.

HEAT DISSIPATION

500 W

HAND BOOK

No 1146(1)(2)

ESTABLISHMENT L 1ST

1.1360

INSTALLATION SPECIFICATION

8.860

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7.85/86