

View Online at <https://aerobasegroup.com/nsn/5990-01-018-3953>

**Body Material:**

Steel, stainless

**Body Style:**

Standard round a

**Pilot Diameter:**

0.5000 inches

**Overall Length:**

1.6300 inches

**Flange Diameter:**

0.7500 inches

**Flange Thickness:**

0.0620 inches

**Undercut Diameter:**

0.6910 inches

**Undercut Width:**

0.0620 inches

**Shaft Diameter:**

0.0900 inches single shaft

**Shaft Length:**

0.3350 inches single shaft

**Schematic Diagram Designator:**

Err-090

**Fragility Factor:**

Moderately rugged

**End Application:**

689

**Body Size:**

8

**Stator Input Voltage Rating In Volts:**

11.8

**Stator Input Current Rating:**

18.0 milliamperes

**Stator Input Electrical Power Rating:**

35.0 milliwatts

**Frequency In Hertz:**

400.0

**Zro Resistance In Ohms:**

720.00

**Zso Resistance In Ohms:**

145.00

**Zrs Resistance In Ohms:**

1070.00

**Rotor Dc Resistance In Ohms:**

440.00

**Stator Dc Resistance In Ohms:**

124.00

**Phase Shift Angle In Deg:**

8.500 output to input

**Maximum Total Null Voltage Output In Millivolts Per Volt:**

50.00

**Electrical Error Angular Range In Minutes:**

-10.0/+10.0

**Actuator Friction Torque At Minus 55 Deg Celsius:**

9.0 centimeter-grams

**Actuator Friction Torque At Plus 25 Deg Celsius:**

3.0 centimeter-grams

**Shaft Radial Play Test Point:**

0.125 inches

**Shaft Maximum Radial Play:**

0.0008 inches

**Shaft End Play:**

Between 0.0005 inches and 0.0015 inches

**Pilot Length:**

0.0400 inches

**Mounting Surface To Terminal End Distance:**

1.2400 inches

**Shaft Maximum Runout:**

0.0010 inches

**Terminal Location:**

Rear

**Plus J Zro Reactance In Ohms:**

3550.00

**Shaft Slot Depth:**

0.0300 inches single shaft

**Plus J Zso Reactance In Ohms:**

640.00

**Shaft Slot Width:**

0.0250 inches single shaft

**Plus J Zrs Reactance In Ohms:**

390.00

**Shaft Type:**

Round, slotted single shaft

**Transformation Ratio:**

2.203 rotor to stator

**Shaft Radial Play Determining Weight:**

4.0 ounces

**Shaft End Play Determining Weight:**

8.0 ounces

**Terminal Type And Quantity:**

5 wire lead

**Shelf Life:**

N/a

**Unit Of Measure:**

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**Demilitarization:**

No

**Fig:**

A07800