NSN 5990-00-007-7833 Electrical Resolver - Page 1 of 3



Electrical Nessolver 1 age 1 of 5
View Online at https://aerobasegroup.com/nsn/5990-00-007-7833
Body Material:
Steel, stainless
Body Style:
Standard round c
Shoulder Diameter:
Between 0.8118 inches and 0.8123 inches
Pilot Diameter:
Between 0.4995 inches and 0.5000 inches
Overall Length:
1.6540 inches
Flange Diameter:
Between 0.9360 inches and 0.9370 inches
Flange Thickness:
0.0625 inches
Undercut Diameter:
Between 0.8350 inches and 0.8400 inches
Undercut Width:
0.0625 inches
Shaft Diameter:
0.0880 inches single shaft and 0.0900 inches single shaft
Shaft Length:
0.3750 inches single shaft
Schematic Diagram Designator:
1 rotor, 2 stator
Fragility Factor:
Moderately rugged
Body Size:
10
Stator Input Voltage Rating In Volts:
5.0
Stator Input Current Rating:
2.8 milliamperes
Stator Input Electrical Power Rating:
3.6 milliwatts
Frequency In Hertz:
400.0

Zso Resistance In Ohms:

457.00

Rotor Dc Resistance In Ohms:

364.00

Stator Dc Resistance In Ohms:

304.00

NSN 5990-00-007-7833

Electrical Resolver - Page 2 of 3



Phase Shift Angle In Deg:
10.000 input to output
Maximum Total Null Voltage Output In Millivolts Per Volt:
40.00
Electrical Error Angular Range In Minutes:
-30.0/+30.0
Actuator Friction Torque At Minus 55 Deg Celsius:
30.00 centimeter-grams
Actuator Friction Torque At Plus 25 Deg Celsius:
10.00 centimeter-grams
Alignment Hole Quantity:
3
Shaft Radial Play Test Point:
0.125 inches
Shaft Maximum Radial Play:
0.0008 inches
Shaft End Play:
Between 0.0001 inches and 0.0005 inches
Terminal Designator And Schematic Position:
Connection r1 position a and connection r2 position b and connection r3 position c and connection s1 position h and connection s2
position e and connection s3 position j and connection s4 position f
Pilot Length:
0.0380 inches
Shoulder Length:
0.0625 inches
Mounting Surface To Terminal End Distance:
1.2410 inches
Shaft Maximum Runout:
0.0010 inches
Terminal Location:
Rear
Shaft Slot Depth:
0.0934 inches single shaft
Plus J Zso Reactance In Ohms:
1727.00
Shaft Slot Width:
0.0200 inches single shaft
Shaft Type:

0.0781 inches

Transformation Ratio:

Round, slotted single shaft **Alignment Hole Depth:**

0.767 stator to rotor

Alignment Hole Bolt Circle Diameter:

Between 0.6750 inches and 0.6810 inches

NSN 5990-00-007-7833 Electrical Resolver - Page 3 of 3



Shaft Radiai Play Determining Weight:		
1.4 ounces		
Shaft End Play Determining Weight:		
3.0 ounces		
Terminal Type And Quantity:		
7 wire lead		
Shelf Life:		
N/a		
Unit Of Measure:		
Demilitarization:		
No		

Fiig: A07800