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R11X-F10B/7S3-52 Specification Sheet

SHEET # 940-2T961

DESCRIPTION

Designed specifically for a customer in the areospace industry, the R11X-F10B/7S3-52 is a sealed single speed resolver that can operate in extreme environments. The brushless resolver is unsurpassed by any other type of rotary position transducer in terms of reliability, but most size 11 resolvers are not environmentally sealed. With a shaft seal and integral connector, the R11X-F10B/7S3-52 is IP67 rated when the mating connector is properly installed.

The resolver provides absolute position of the input shaft and being ratiometric, any changes in the resolver's characteristics, such as those caused by aging, frequency, voltage or a change in temperature are ignored. Due to the small shaft size a flexible coupler must be used when connecting the resolver to your machinery.

The R11X-F10B/7S3-52 has an accuracy of ±7 minutes. A higher accuracy unit with a specification of ±3 minutes is available under the part number R11X-F10B/3S3-52.

() = Dimensions in millimeters 0.1200" (3.048)-0.1195" (3.035) 0.625" (15.88) 0.577" (14.66) -0.68" (17.3) max. 0.547" (13.89) 0.622" (15.80) A 1.062" (26.97) 0.980" 1.059" (26.90) (24.89)1.0000" (25.400) 1.065" 0.9995" (25.387) (27.05)0.062" Sealed Connector (1.57)Glenair 0.062" 2.33" (59.2) max. 805-005-07-NF-8-7-EA (1.57)0.093" (2.36)0.062 (1.57)

SPECIFICATIONS

Input Freq: Input Current: Primary: Trans. Ratio: Zro (ohm): Zrs (ohm): Zso (ohm): Zss (ohm): DC Rotor Res.: DC Stator Res.: <i>All impedar</i>	18.0 mA Max. Rotor 0.50 ± 7% 175 + j170 108 + j121 165 + j182 100 + j128 16 ohm 40 ohm	Phase Shift: Null Voltage: Rotor Moment: Starting Torque: Shaft Seal: Radial Load: Axial Load: Op. Temp.:	15mV max. 0.51X10 ⁻⁴ oz-in-sec ² 0.4 oz-in @ 25°C Nitrile, 7 psi diff. max. 2 lbs. max.	Bearing L10 life is 2 X 10° revolutions at the listed maximum radial and axial loads. (Statistically, 90% of the bearings will last this long.) Shaft loading has an exponential effect on bearing life. Minimize shaft loading to exponentially extend the life of the resolver. Use a flexible coupler between the resolver and your machine.
resistance values are ±15%				

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