

Mitsubishi HG-KR053BJ Manual

Brand	Mitsubishi
Product Series	Mitsubishi Pepperl+Fuchs Omron
Product Type	Built-In Electromagnetic Brake

Description

The HG-KR053BJ from Mitsubishi operates as a rotary servo motor designed for precise motion control. It delivers a nominal torque of 0.16 Newton-meters and has an output power of 50 Watts, reaching speeds of up to 3,000 RPM.

Technical specifications for HG-KR053BJ

- Manufacturer Mitsubishi
- Product Line HG Series
- Part Number HG-KR053BJ
- Weight 10.00 lbs (4.54 kg)
- Nominal Torque 0.16 Newton-meters
- Output Power 50 Watts
- Rated Speed 3,000 RPM
- Shaft Shape Straight Shaft (Standard)
- Supply Voltage Class 200 Volts AC
- Rated Current 0.9 Amps
- Brake Type Built-In Electromagnetic Brake
- Reduction Gear Type No Reduction Gear
- Connector 4-Pin Rectangular Connector
- Encoder 22-Bit Encoder
- IP Rating IP65
- Motor Type Rotary Servo Motor
- Capacity Small Capacity
- Inertia Low Inertia

Description

Mitsubishi's HG-KR053BJ is a rotary servo motor tailored for applications requiring accuracy and reliability. This motor produces a nominal torque of 0.16 Newton-meters, effectively supporting light loads. Designed for a continuous output power of 50 Watts, it can attain a rated speed of 3,000 RPM.

The standard straight shaft configuration facilitates straightforward integration into various systems. It operates at a supply voltage class of 200 Volts AC and draws a rated current of 0.9 Amps, ensuring operational efficiency. This motor is also equipped with an integrated electromagnetic brake, enhancing safety by providing reliable stopping capabilities when needed.

Being a low inertia motor, the HG-KR053BJ offers responsive performance, adaptable to dynamic control scenarios. It does not incorporate a reduction gear, focusing on direct drive applications. With a connector type of a 4-pin rectangular design, installation becomes more manageable. A 22-bit encoder is integrated within the unit, providing high resolution for accurate position feedback. The motor is engineered with an IP65 rating, confirming its resilience against dust and moisture ingress, ideal for demanding industrial settings.

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