

Mitsubishi HG-KR43BJ Manual

Brand	Mitsubishi
Product Series	Mitsubishi Pepperl+Fuchs Omron
Product Type	22-Bit Absolute Feedback Encoder

Description

The Mitsubishi HG-KR43BJ is engineered as a brushless servo motor within the HG Series. It features an output rating of 0.4 kilowatts and a rated speed of 3,000 RPM, which is ideal for precise motion control applications.

Technical specifications for HG-KR43BJ

Manufacturer Mitsubishi

Product Line HG Series

Part Number HG-KR43BJ

Weight 1.75 lbs (0.79 kg)

Encoder Type 22-Bit Absolute Feedback Encoder

Brake Type Built-In Electromagnetic Brake

Connector 4-Pin Rectangular Connector

Oil Seal Included

Rated Speed 3,000 RPM

Supply Voltage Class 200 Volts AC Class

Degree of Protection IP65

Encoder Resolution 4,194,304 Pulses Per Revolution

Cooling Method Natural Cooling

Output Rating 0.4 kilowatts

Inertia Low Inertia

Capacity Small Power Capacity

Maximum Axial Load 98 Newtons

Maximum Radial Load 245 Newtons

Motor Type Brushless Servo Motor

Description

The Mitsubishi HG-KR43BJ is a specialized brushless servo motor designed for high precision and performance in the HG Series. It operates at a rated speed of 3,000 RPM, accommodating varying application demands. The power output is rated at 0.4 kilowatts, making it suitable for small capacities.

A key feature is the integration of a 22-bit absolute feedback encoder. This encoder achieves a high resolution of 4,194,304 pulses per revolution, enabling fine control over movement and accuracy in position sensing. The built-in electromagnetic brake allows for secure stopping and provides added safety during operation.

This motor is designed to function optimally with a supply voltage class of 200 volts AC. It includes a four-pin rectangular connector for straightforward wiring. The degree of protection is rated at IP65, indicating strong resistance to dust and water, which enhances durability in various environments.

Regarding load capacities, the HG-KR43BJ can handle a maximum axial load of 98 Newtons and a maximum radial load of 245 Newtons. Its low inertia contributes to responsive performance, making it especially effective in applications requiring quick

acceleration and deceleration. The natural cooling method helps maintain the operational temperature, ensuring reliability during use. An oil seal feature is also included, promoting longevity by protecting internal components from contaminants.

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