

Mitsubishi HG-KR23J Manual

Brand	Mitsubishi
Product Series	Mitsubishi Pepperl+Fuchs Omron
Product Type	Rotary Servo Motor

Description

The HG-KR23J from Mitsubishi is a rotary servo motor within the HG Series. This motor features a brushless design with a straight shaft and is equipped with an absolute encoder that boasts a resolution of 22 bits for enhanced positioning accuracy. It operates on a supply voltage of 200V AC and supports rated speeds of up to 3000 RPM, reaching a maximum speed of 6000 RPM.

Technical specifications for HG-KR23J

Manufacturer Mitsubishi

Product Type Rotary Servo Motor

Product Line HG Series

Part Number HG-KR23J

Weight 10.00 lbs (4.54 kg)

Brushless Design Yes

Shaft Type Straight Shaft

Encoder Absolute Encoder (22-Bit)

Oil Seal Yes

Inertia Type Low Inertia

Power Capacity Small Capacity

Cooling Option Natural Cooling

Supply Voltage Class 200V AC

Rated Current 1.3 Amps

Rated Active Power 200 Watts

Rated Speed 3000 RPM

Maximum Speed 6000 RPM

Nominal Torque 0.64 Nm

Maximum Torque 2.2 Nm

Description

Mitsubishi's HG-KR23J is engineered as a rotary servo motor featuring a brushless design for reliability and efficiency. The motor is equipped with a straight shaft and integrates an absolute encoder with a resolution of 22 bits, providing excellent precision in motion control. This feature is crucial for applications that demand high accuracy. The HG-KR23J is characterized by its low inertia, which allows it to respond rapidly to commands, making it an ideal choice for dynamic settings.

It functions under a 200V AC power supply, ensuring compatibility with various systems. The servo motor is capable of operating at a rated current of 1.3 amps, yielding an active power output of 200 watts. It is efficient, capable of reaching rated speeds up to 3000 RPM, and can achieve a maximum speed of 6000 RPM, increasing its versatility in different motion control applications.

The nominal torque produced is measured at 0.64 Nm, while its maximum torque capacity is 2.2 Nm, providing sufficient force for various tasks. The design also includes an oil seal, ensuring that the internal components are protected from contaminants. The HG-KR23J utilizes natural cooling, which enhances its operational stability without requiring additional cooling mechanisms.

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