

Mitsubishi HG-MR053B Manual

Brand	Mitsubishi
Product Series	Mitsubishi Pepperl+Fuchs Omron
Product Type	-

Description

The Mitsubishi HG-MR053B servo motor features ultra-low inertia, making it ideal for applications requiring rapid response. With a rated output of 0.05 kW and a maximum speed of 6000 r/min, this motor performs smaller tasks efficiently.

Technical specifications for HG-MR053B

Manufacturer Mitsubishi

Product Line HG Series

Part Number HG-MR053B

Weight 10.00 lbs (4.54 kg)

Product Servo Motor

Inertia Ultra-Low Inertia

Capacity Small Capacity

Rated Output 0.05 kW

Rated Speed 3000 r/min

Electromagnetic Brake Built-In Electromagnetic Brake

Oil Seal None

Maximum Speed 6000 r/min

Shaft Shape Standard

Rated Torque 0.16 Nm

Maximum Torque 0.48 Nm

Rated Current 1A

Maximum Current 3.1A

Description

The Mitsubishi HG-MR053B is a compact servo motor engineered for precision applications. With an ultra-low inertia characteristic, this motor quickly adapts to dynamic changes in speed and torque, ensuring optimal performance in controlled environments. Operating efficiently at a rated output of 0.05 kW, the unit provides reliability in tasks with lower power characteristics.

At a rated speed of 3000 r/min, the HG-MR053B can reach a peak speed of 6000 r/min, offering flexibility in various operational scenarios. The motor generates a rated torque of 0.16 Nm and supports a maximum torque of 0.48 Nm, making it suitable for small-capacity tasks.

The integrated electromagnetic brake also contributes to enhanced operational precision, allowing for exact control during movement. However, it's important to note that the HG-MR053B does not include an oil seal, which may affect its suitability in specific environments. The standard shaft design facilitates ease of integration with existing machinery setups.

Current specifications indicate a rated current requirement of 1A, which can handle up to 3.1A at peak. This makes the Mitsubishi HG-MR053B an efficient solution for applications requiring quick responsiveness and controlled operation.

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