

Mitsubishi HG-MR053 Manual

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

Description

The HG-MR053 from Mitsubishi's HG Series is an AC servo motor engineered for small power capacities. Its rated speed is set at 3000 RPM, while the maximum speed reaches 6000 RPM, making it suitable for various dynamic applications.

Technical specifications for HG-MR053

Manufacturer Mitsubishi

Product Line HG Series

Part Number HG-MR053

Weight 3.00 lbs (1.36 kg)

Motor Type AC Servo Motor

Motor Capacity Small Power Capacity

Rated Speed 3000 RPM

Maximum Speed 6000 RPM

Rated Torque 0.16 Nm

Maximum Torque 0.48 Nm

Operating Temperature 0 to 40 degrees Celsius

Storage Temperature -15 to 70 degrees Celsius

Rated Current 1 Amp

Maximum Current 3.1 Amps

Rated Output 0.05 kW

IP Rating IP65

Encoder 22-Bit Absolute Encoder

Connector 4-Pin Rectangular Connector

Shaft Type Standard (Straight Shaft)

Description

The Mitsubishi HG-MR053 is a sophisticated AC servo motor tailored for applications requiring small power capacity. With a rated rotational speed of 3000 RPM, users can expect reliable performance under various conditions. The motor can achieve a maximum speed of 6000 RPM, facilitating tasks that demand rapid acceleration and deceleration.

Its rated torque is specified at 0.16 Nm, and it can handle a peak torque of up to 0.48 Nm, highlighting its capability to manage different load scenarios effectively. The current specifications indicate a rated current of 1 Amp, while it can withstand a maximum current of 3.1 Amps, ensuring robustness during operation.

This model's operating temperature ranges from 0 to 40 degrees Celsius, suitable for many environments, while storage conditions extend from -15 to 70 degrees Celsius. This variability makes it adaptable to different industrial settings.

Furthermore, the motor has a 22-bit absolute encoder that enhances positioning precision, which is essential for automation processes. It employs a straightforward straight shaft design for easy integration and has a 4-pin rectangular connector for reliable connectivity. The IP65 rating ensures that the HG-MR053 is protected from dust ingress and water splashes, enhancing its durability.

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www.AutoDCSTech.com