

Mitsubishi HG-MR43 Manual

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

Description

The Mitsubishi HG-MR43 rotary servo motor excels in performance and reliability with a rated output of 0.4 kW. Operating at speeds of 3000 RPM and peaking at 6000 RPM, this motor is characterized by its ultra-low inertia and compact design.

Technical specifications for HG-MR43

Manufacturer Mitsubishi

Product Line HG Series

Part Number HG-MR43

Weight 10.00 lbs (4.54 kg)

Type of Product Rotary Servo Motor

Rated Output 0.4 kW

Inertia Ultra-Low Inertia

Motor Capacity Small Capacity

Rated Speed 3000 RPM

Maximum Speed 6000 RPM

Rated Torque 1.3 Nm

Rated Current 2.6 A

Maximum Torque 3.8 Nm

Maximum Current 9 A

Operating Temperature 0 to 40 degrees Celsius

Encoder Type 22-Bit Encoder

IP Rating IP65

Maximum Radial Load 245 N

Maximum Axial Load 98 N

Description

Designed for precision applications, the HG-MR43 rotary servo motor from Mitsubishi's HG series is a robust solution for small capacity needs. This motor provides a rated output of 0.4 kW, ensuring efficiency in operation. Its design allows it to reach speeds of 3000 RPM under normal conditions, with the capability to accelerate to a maximum speed of 6000 RPM, catering to demanding applications.

The servo motor's ultra-low inertia contributes to quick response times, making it ideal for tasks requiring high precision. This model delivers a rated torque of 1.3 Nm, reaching a peak torque of 3.8 Nm when necessary. It operates with a rated current of 2.6 A and can handle a maximum current of 9 A, demonstrating its capacity to perform under varying load conditions.

The maximum radial load capacity stands at 245 N, while the maximum axial load is rated at 98 N. The integration of a 22-bit encoder provides high-resolution feedback that enhances motion accuracy. The HG-MR43 is rated with an IP65 enclosure, ensuring resistance to dust and water ingress, which is essential for longevity in challenging environments. This rotary servo motor is engineered to operate smoothly between 0 and 40 degrees Celsius, maintaining performance in a range of industrial settings.

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