

Mitsubishi HG-MR13 Manual

Brand	Mitsubishi
Product Series	Mitsubishi Pepperl+Fuchs Omron
Product Type	Ultra-Low Inertia Servo Motor

Description

The HG-MR13 model from Mitsubishi belongs to the HG Series, specializing in ultra-low inertia applications. With a rated speed of 3000 RPM, this servo motor can reach a maximum speed of 6000 RPM, making it suitable for rapid performance requirements.

Technical specifications for HG-MR13

Manufacturer Mitsubishi

Product Type Ultra-Low Inertia Servo Motor

Product Line HG Series

Part Number HG-MR13

Weight 0.56 lbs (0.26 kg)

Capacity Small Capacity

Rated Speed 3000 RPM

Maximum Speed 6000 RPM

Structure Totally-Enclosed Structure

IP Rating IP65

Maximum Radial Load 88 N

Maximum Axial Load 59 N

Rated Torque 0.32 Nm

Encoder 22-Bit Encoder

Rated Current 0.9 A

Maximum Current 2.5 A

Maximum Torque 0.95 Nm

Shaft Type Straight Shaft

Electromagnetic Brake Not Included

Description

The Mitsubishi HG-MR13 exemplifies cutting-edge engineering in the realm of ultra-low inertia servo motors. With a compact design catering to small capacity applications, it efficiently operates at a rated speed of 3000 RPM and can achieve a maximum speed of 6000 RPM. Its structure is totally enclosed, ensuring robust protection against environmental contaminants, as specified by its IP65 rating.

This motor is equipped with a straight shaft and lacks an electromagnetic brake, making it well-suited for specific high-speed, precise control scenarios. The rated torque is established at 0.32 Nm; however, when needed, it can drive up to 0.95 Nm under maximum conditions. In terms of load capabilities, the HG-MR13 accommodates a maximum radial load of 88 N while supporting an axial load of 59 N, appropriate for various applications.

Integrating a 22-bit encoder enhances the motor's performance by providing accurate feedback for motion control. Additionally, the rated current stands at 0.9 A, with the capacity to handle peaks up to 2.5 A. Overall, the HG-MR13 is designed for users requiring precision and responsiveness in their motion systems.

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