

Mitsubishi HG-SR102J Manual

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

Description

The HG-SR102J model is an AC servo motor manufactured by Mitsubishi, falling under the HG Series. It is designed for efficient operation, with a nominal torque rating of 4.8 Nm and a peak torque capacity of 14.3 Nm, making it suitable for various applications.

Technical specifications for HG-SR102J

Manufacturer Mitsubishi

Product Line HG Series

Part Number HG-SR102J

Weight 5.00 lbs (2.27 kg)

Nominal Torque 4.8 Nm

Maximum Torque 14.3 Nm

Mounting Mode 130x130mm Flange Mounting

Encoder 22-Bit Absolute Encoder

Maximum Radial Load 980 N

Maximum Axial Load 490 N

Oil Seal Included

Supply Voltage Class 200VAC Class

Shaft Straight Shaft (Standard)

IP Rating IP67

Rated Current 5.6 A

Maximum Current 17 A

Rated Speed 2000 RPM

Maximum Speed 3000 RPM

Type of Product AC Servo Motor

Description

The Mitsubishi HG-SR102J AC servo motor offers notable performance metrics essential for many industrial applications. Operating generously at a nominal torque of 4.8 Nm, it can deliver a maximum torque of 14.3 Nm when required. This motor features a mounting configuration that utilizes a 130x130mm flange, facilitating installation.

Equipped with a 22-bit absolute encoder, the HG-SR102J ensures high precision in position feedback. It can manage a maximum radial load of 980 N and an axial load of 490 N, offering versatile operational capabilities. The design includes an oil seal, enhancing durability by protecting internal components from contaminants.

For electrical specifications, the servo motor functions efficiently within a 200VAC supply voltage class. The rated current of 5.6 A is standard for typical operational needs, while it has a maximum current rating of 17 A for enhanced power capability.

In terms of speed, the HG-SR102J achieves a rated speed of 2000 RPM, with the capacity to reach a maximum rotational speed of 3000 RPM, facilitating rapid response and control in mechanical systems.

With an IP67 rating, this AC servo motor is well-protected against dust and water ingress, meeting industrial standards for operational reliability in diverse environments. Thus, the HG-SR102J is a highly capable component for systems that demand precision and robust performance.

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