

Mitsubishi HG-KR43J Manual

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

Description

Mitsubishi Electric manufactured the HG-KR43J servo motor is a high-performance motor for accurate and dynamic control. It is based on the MELSERVO-J4 servo motor line, intended for high-precision, speed, and torque applications. The HG-KR43J has an IP65 class enclosure making it dust-tight and resistant to water jets. The motor uses a flange mounting option and offers a natural cooling option. It works in temperatures ranging from 0 to 40 degrees Celsius.

Technical specifications for HG-KR43J

Manufacturer Mitsubishi

Product Type Servo Motor

Product Line HG Series

Part Number HG-KR43J

Weight 2.94 lbs (1.33 kg)

Series MELSERVO J4

Motor Type Low inertia/Small capacity

Rated output 400 W

Rated torque 1.3 Nm; max. 4.5 Nm

Rated speed 3000 rpm; Maximum 6000 rpm

Rated current 2.6 A; max. 9.1 amps

Oil seal Yes

Reduction gear None

Electromagnetic brake None

Shaft type Standard

Connection type 4-pin Rectangular connector

Maximum radial load 245 N

Description

Mitsubishi Electric manufactured the HG-KR43J, an AC brushless rotary servo motor belonging to the MELSERVO J4 series of servo motors. The HG-KR43J is a good choice for highly precise uses, including robotics, machine tools, and automation systems. With an output power rating of 400 watts, the HG-KR43J servo motor is appropriate for applications requiring low or moderate power. It can generate a rated torque value of 1.3 Nm and a maximum torque value of 4.5 Nm for precise and dynamic motion control. For quick and responsive operation, the motor operates at a maximum operating speed of 6000 rev/min and a rated rotational speed of 3000 rpm. The HG-KR43J has a maximum current rating of 9.1 amps and a stipulated rated current of 2.6 amps. The HG-KR43J servo motor does not contain an electromagnetic brake or a reduction gear; this servo is constructed with a standard shaft type. It has an oil seal installed to shield it from pollutants like oil that could reduce motor longevity and performance. Its load to motor inertia ratio is 25 times or less. In order to ensure optimal performance and stability in motion control applications, this ratio balances the load's inertia with the motor's capacity to regulate it. The HG-KR43J servo motor uses natural cooling and is completely enclosed. It is appropriate for use in harsh industrial conditions because it has an IP65 class enclosure, denoting high protection against dust and water penetration. Overall, the Mitsubishi Electric HG-KR43J is a low-inertia servo motor that is dependable and effective and is created for applications requiring accurate motion control.

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