Mitsubishi

DATA SHEET

MR-J2S-100A

Industrial automation components

Manufacturer	Mitsubishi
Catalog number	mr-j2s-100a
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	1.81 kgs
Voltage	200 - 230 V
Frequency	50 - 60 Hz
Cooling Capacity	1 kW
Measurement Range	200 - 230
Product Type	Drive
Manufacturer	Mitsubishi
Relay Specifications	100 A
Current	5 A
Power	1 kW
Signal Level	230 V

Description

The Mitsubishi MR-J2S-100A is a high-performance servo amplifier from the MELSERVO-J2S series, designed for precision motion control in industrial automation systems. Operating on a three-phase AC 200-230V, 50/60Hz power supply, it delivers a continuous output power of 1 kW, suitable for demanding applications requiring reliable and accurate motion control. The servo amplifier employs a sine-wave PWM control and current control method, ensuring smooth and precise motor operations. It features built-in dynamic braking for enhanced performance and safety. The MR-J2S-100A offers multiple protective functions, including overcurrent, regenerative overvoltage, overload (electronic thermal), servo motor overheat, encoder fault, regenerative fault, undervoltage, momentary power loss, overspeed, and excessive error protections, safeguarding both the amplifier and connected equipment. With a speed frequency response of 550 Hz or more, it supports high-speed operations. The amplifier is housed in a self-cooling, open (IP00) structure, with dimensions of 70 mm in width, 175 mm in height, and 190 mm in depth, and weighs approximately 1.7 kg. It operates within an ambient temperature range of 0 to +55°C and a humidity of up to 90% RH (non-condensing), making it suitable for various industrial environments. The MR-J2S-100A is compatible with Mitsubishi's HC-SFS81, HC-SFS102, HC-SFS103, and HC-LFS102 servo motors, providing flexibility in system configurations. This servo amplifier is ideal for applications requiring precise control and high reliability, such as machine tools, general industrial machines, and other automation systems.