

MR-J3-100A

Industrial automation components

Manufacturer	Mitsubishi
Catalog number	mr-j3-100a
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	0.64 kgs
Voltage	200 V
Current	100 A
Power	1 kW
Signal Type	200
Signal Level	200 V
Cooling Capacity	1 kW
Measurement Range	3 - 100
Relay Specifications	100 A

Description

The Mitsubishi MR-J3-100A is a high-performance servo amplifier module from the MELSERVO J3 series, designed to deliver precise control and drive capabilities for servo motors in various industrial applications. Operating with a 3-phase AC input voltage of 200 to 230V at 50/60Hz, it provides an output power of 1 kW, making it suitable for demanding automation tasks. The servo amplifier utilizes a sine-wave PWM control system combined with current control, ensuring smooth and accurate motor operation. It features a built-in dynamic brake for rapid deceleration and an integrated regenerative resistor with a capacity of 20W, allowing for energy regeneration during motor braking. The MR-J3-100A is equipped with a high-resolution encoder offering 262,144 pulses per revolution (18-bit), enabling precise position feedback. Its compact design reduces installation space by approximately 40% compared to previous models, and the connectorized terminal block simplifies wiring, enhancing ease of installation. The servo amplifier also includes advanced tuning functions, such as model-based control and real-time auto-tuning, facilitating quick and efficient system setup. With a weight of 1.4 kg, the MR-J3-100A is a reliable and efficient solution for industrial automation needs.