

Mitsubishi Series Service Manual

MR-J3-20T

1. Description

The MR-J3-20T is a turret indexer AC servo amplifier from Mitsubishi's MELSERVO MR-J3 series. It operates on a supply voltage ranging from 200 to 230 Volts AC and delivers a rated output voltage of 170 Volts AC, making it suitable for high-performance applications.

2. Specifications

Specification	Value
Manufacturer	Mitsubishi
Product	Type Turret indexer AC servo amplifier
Product	Line MELSERVO MR-J3
Part	Number MR-J3-20T
Weight	1.75 lbs (0.79 kg)
Supply	Voltage Rating 200 to 230 Volts AC
Rated	Output Voltage 170 Volts AC
Control	Method Sine wave pulse width modulation (PWM) control and current control
Rated	Current 1.5 Amperes
Cooling	Method Natural cooling
Input	Phase Type 3-phase or 1-phase
Braking	Unit Built-in dynamic brake
Rated	Active Power 200 Watts
Communication	Protocol RS-422 and CC-Link protocols
Power	Consumption 30 Watts
Input	Current Consumption 1.5 Amperes
Enclosure	Rating IP00 (open enclosure)
Applicable	CC-Link CC-Link Version 1.10
Description	
The	MR-J3-20T, designed by Mitsubishi, is an AC servo amplifier specifically employed for turret indexing applications. This unit is capable of operating at a supply voltage rating between 200 and 230 Volts AC, ensuring compatibility with various industrial power systems. The rated output voltage is specified at 170 Volts AC, w

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This particular amplifier employs a control methodology that integrates sine wave pulse width modulation (PWM) alongside current control techniques, enabling precise motion control throughout its operational parameters. The rated current is set at 1.5 Amperes, while the input current consumption mirrors this rating.

For cooling, the MR-J3-20T relies on natural cooling, eliminating the need for additional cooling equipment. It can function with either a 3-phase or 1-phase input phase type based on the installation requirements. Enhancing its utility, the unit incorporates a built-in dynamic brake to facilitate quick stops when necessary.

In terms of power metrics, it maintains a rated active power output of 200 Watts while drawing only 30 Watts during operation. Communication capabilities include compatibility with RS-422 and CC-Link protocols, making it suitable for integration into more extensive control systems. The amplifier is classified with an IP00 rating, indicating it has an open enclosure.

At a weight of 1.76 pounds (0.8 kilograms), the MR-J3-20T offers a lightweight option for various applications. This servo amplifier stands out as a functional and robust choice for precise turret indexing control in automation systems.

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