# Mitsubishi □□ □□□ □□□ Series Service Manual

MR-J3-DU55KBS4

## 1. Description

Mitsubishi's MR-J3-DU55KBS4 is an advanced AC motion servo drive for high-performance applications. Delivering a rated output of 55 kW and a rated current of 143 A, it operates effectively within the 380Vac to 480Vac supply voltage range. The unit can integrate seamlessly with other drive units and features robust communication through SSCNET III/H.

## 2. Specifications

| Specification | Value |
|---|---|
| Manufacturer | **Mitsubishi** |
| Product | **Line MELSERVO MR-J3** |
| Part | **Number MR-J3-DU55KBS4** |
| Type | **AC motion servo drive / amplifier** |
| Rated | **Output 55 kW** |
| Rated | **Current 143 A** |
| Supply | **Voltage 380Vac-480Vac (400V class; 400Vac / 415Vac / 440Vac)** |
| Phase | **Input 3-phase input (3P)** |
| Communication | **Capability SSCNET III/H** |
| Ambient | **Temperature for Operation 0…+55°C** |
| Compatibility | **Compatible with drive unit** |
| Cooling | **Integrated drive safety** |
| Protection | **Functions Overcurrent shut-off, regeneration overvoltage shut-off, overload shut-off, undervoltage shut-off, overspeed protection, excessive error protection** |
| Digital | **Inputs Multiple digital inputs available** |
| Safety | **Features Integrated drive safety** |
| Description | |
| The | **Mitsubishi MR-J3-DU55KBS4 model is an AC servo drive specifically engineered for motion applications. With an impressive rated output of 55 kW and a current rating of 143 A, this unit is designed to handle demanding workloads effectively. It is ideally suited for various configurations, operating within a supply v** |

## 3. Product Information

www.AutoDCSTech.com

Mitsubishi's MR-J3-DU55KBS4 is an advanced AC motion servo drive for high-performance applications. Delivering a rated output of 55 kW and a rated current of 143 A, it operates effectively within the 380Vac to 480Vac supply voltage range. The unit can integrate seamlessly with other drive units and features robust communication through SSCNET III/H.

Technical specifications for MR-J3-DU55KBS4

Manufacturer Mitsubishi

Product Line MELSERVO MR-J3

Part Number MR-J3-DU55KBS4

Type AC motion servo drive / amplifier

Rated Output 55 kW

Rated Current 143 A

Supply Voltage 380Vac-480Vac (400V class; 400Vac / 415Vac / 440Vac)

Phase Input 3-phase input (3P)

Communication Capability SSCNET III/H

Ambient Temperature for Operation 0…+55°C

Compatibility Compatible with drive unit

Cooling Integrated drive safety

Protection Functions Overcurrent shut-off, regeneration overvoltage shut-off, overload shut-off, undervoltage shut-off, overspeed protection, excessive error protection

Digital Inputs Multiple digital inputs available

Safety Features Integrated drive safety

Description

The Mitsubishi MR-J3-DU55KBS4 model is an AC servo drive specifically engineered for motion applications. With an impressive rated output of 55 kW and a current rating of 143 A, this unit is designed to handle demanding workloads effectively. It is ideally suited for various configurations, operating within a supply voltage range of 380Vac to 480Vac, including 400V class options such as 400Vac, 415Vac, and 440Vac.

The device accepts 3-phase input (3P) and allows communication via SSCNET III/H, facilitating integration into sophisticated control systems. In terms of the operational environment, this servo drive can function at ambient temperatures ranging from 0 to +55 degrees Celsius. Its compatibility with drive units ensures adaptable deployment in numerous applications.

This servo amplifier includes integrated drive safety features, focusing on user safety and equipment protection. Several safety mechanisms are incorporated: protection functions include overcurrent shut-off, regeneration overvoltage shut-off, overload shut-off, undervoltage shut-off, overspeed protection, and excessive error protection to ensure reliable operation under various conditions.

Moreover, the device offers multiple digital input options, enhancing its flexibility and responsiveness in control scenarios. The cooling system is also integrated into the drive, which aids in maintaining optimal operating temperatures during intense usage. The MR-J3-DU55KBS4 is a solid choice for industries requiring efficient servo-drive solutions.

Website: www.AutoDCSTech.com | Email: sales@AutoDCSTech.com