The Servo You’ve Been Waiting For

The new Mitsubishi MELSERVO-JE servo amplifiers and servo motors are here. Combining proven reliability with a 2.0 kHz high-frequency response and an energy-saving design, they offer the best-in-class performance with the setup ease of Advanced One-Touch Tuning. Fully compliant with global standards and ready for deployment worldwide, MELSERVO-JE series is the servo solution you’ve been waiting for.
Fast, Accurate, and Easy to Use

Easy To Use

Servo Gain Adjustment with One-Touch Ease

**Advanced One-Touch Tuning Function**

Servo gains including machine resonance suppression control II*, and robust filter are adjusted just by pressing the buttons on the front of the servo amplifier. Machine performance is utilized to the fullest using the advanced vibration suppression control functions.

* The advanced vibration suppression control II automatically adjusts one frequency.

Suppress Two Types of Low Frequency Vibrations at Once

Advanced Vibration Suppression Control II

Due to vibration suppression algorithm which supports three-inertia system, two types of low frequency vibrations are suppressed at the same time. Adjustment is performed on MR Configurator2. This function is effective in suppressing vibration at the end of an arm and in reducing residual vibration in a machine.

High Performance

Fast and Accurate

**Speed Frequency Response of 2.0 kHz**

The top-level speed response of 2.0 kHz shortens the settling time substantially, reducing the tact time of a machine.

**Smooth, Constant-Speed Operation**

By optimizing the combination of the number of motor poles and the number of slots, torque ripple during conduction is reduced to 1/4 as compared to the prior series. Smooth constant-speed operation of a machine is achieved.

Improved Tolerance against Instantaneous Power Failure

Reduce machine downtime

**Large Capacity Main Circuit Capacitor**

The improved tolerance against instantaneous power failure is improved as the capacity of the main circuit capacitor is increased by 20% from the prior model, reducing machine downtime and improving productivity.

Instantaneous Power Failure Tough Drive

The possibility of undervoltage alarm is reduced by limiting the torque when instantaneous power failure is detected in the main circuit power supply.

Easy Monitoring and Maintenance

Analyze Cause of Alarm

**Large Capacity Drive Recorder**

The servo data such as motor current and position command before and after the alarm occurrence are stored in non-volatile memory of the servo amplifier. This function allows you to check the monitor values and the waveform of the past 16 alarms in the alarm history (analogue 16 bits + 8 channels + digital 8 channels) × 256 points on MR Configurator2. The data read on MR Configurator2 help you to analyze the cause of the alarm.

Global Standard

Fully Compliant Worldwide

Best Quality All Over The World

The servo amplifiers and the servo motors conform to global standards as standard.

Conformity with global standards and regulations:

- European EC Directives
  - Low Voltage Directive 2014/35/EU
  - EMC Directive 2014/30/EU
  - RoHS Directive 2011/65/EU
  - Low Energy Directive 2009/125/EC

- Standards
  - IEC 60034-1
  - IEC 60034-5

- ETL listed on the National Recognized Test Laboratory Program

- Made in Mitsubishi Electric
  - HSX-3920
  - HSX-3921

- CE Mark
  - Laser Class 1

- Made in China

- Conforms to the Pollution Control Act and the Pollution Control Act of Information Products (China RoHS)

- Made in China

- Conforms to the Pollution Control Act

- Made In Japan

- Conforms to the Pollution Control Act

*1. Refer to “Servo Amplifier Instruction Manual” and “EMC Installation Guidelines” when your system needs to meet the EC directives.

*2. When exporting the product, follow the local laws and regulations.

Sink and Source Connections

The digital input/output is compatible with both sink and source type connections.

High-Precision Tuning

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