MITSUBISHI ELECTRIC
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MR-J5 ETHERNET/IP SERVO DRIVE WITH INTEGRATED CIP SAFETY

PRODUCT OVERVIEW



- Easy to use
- Reduce panel space
- Compatible with existing systems
- EtherNet/IP communication with integrated CIP Safety

Upgrade Existing EtherNet/IP Motion Systems with High-Performance MR-J5 Servo Drives and Motors

Reduce maintenance, improve machine performance, simplify wiring, and leverage integrated CIP Safety using industry-proven Add-On Instructions for Studio 5000.



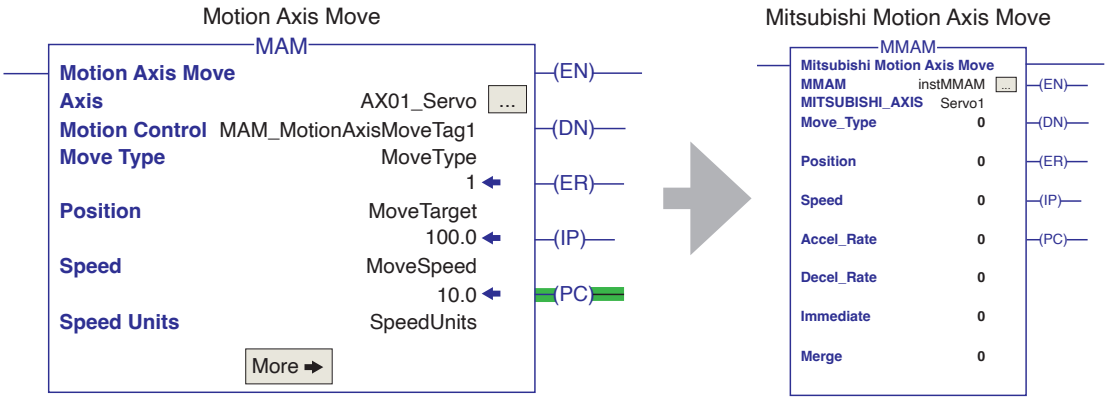
System Configuration

EtherNet/IP + CIP Safety

KEY BENEFITS:

- **EtherNet/IP compatibility –** provides seamless compatibility with ControlLogix® and CompactLogix™ controllers. MR-J5 is also compatible with any EtherNet/IP device that supports Class 1 communications
- **Familiar programming with Add-On Instructions (AOIs) –** programming in Studio 5000 Logix Designer® is easy using AOIs that mimic native motion instructions for a seamless and intuitive transition
- **High performance servo motors –** equipped with 26-bit battery-less absolute encoders, single-cable connectivity, and reduced footprint
- **Reduce panel space –** multi-axis amplifiers help customers save panel space, conserve energy, and simplify wiring
- **Quick Tuning™ –** fast, trouble-free servo tuning that sets control gains in 0.3 seconds to achieve optimum performance with no tuning experience
- **Preventive maintenance –** avoid unnecessary downtime due to mechanical component wear and tear
- **Integrated CIP Safety® –** every MR-J5 EtherNet/IP amplifier includes CIP Safety, helping reduce system cost and wiring complexity while simplifying integration with Compact GuardLogix® and accelerating commissioning

Pre-Configured Add-On Instructions (AOI) are Tested and Easy to Use



EtherNet/IP™ is a trademark of ODVA
Studio 5000 Logix Designer® is a Registered trademark of Rockwell Automation
ControlLogix® is a Registered trademark of Rockwell Automation
CompactLogix™ is a trademark of Rockwell Automation

Available Instructions

MMAJ	Motion Axis Jog
MMAM	Motion Axis Move
MMAH	Motion Axis Home
MMAT	Motion Axis Torque
MMRP	Redefine the position
MMAG	Motion Axis Gear [Only for J4]
MMAS	Motion Axis Stop
MMAFR	Motion Axis Fault Reset
MMSO/MMSF	Motion Axis Servo On/Off
MMASD/MMASR	Motion Axis Shutdown/Shutdown Reset
MMAW/MMDW	Motion Arm/Disarm Watch
MMAR/MMDR	Motion Arm/Disarm Registration
MMRE	Motion Read Error
MMWriteR	Motion Write Parameter RAM
MMReadP	Motion Read Parameter
MMWriteE	Motion Write EEPROM
MMCFG	Motion Axis Configuration
MCOM_MITSUBISHI	Drive Communication for MR-J4
MCOM_MITS_J5G	Drive Communication for MR-J5
MCOM_MITS_J5W2	Drive Communication for MR-J5W2
MCOM_MITS_J5W3	Drive Communication for MR-J5W3

MR-J5 CIP Safety with CompactLogix Safety PLC Benefits

- Safety communication over EtherNet/IP
- Reduced hardwired safety complexity
- Native compatibility with Compact GuardLogix
- Faster system commissioning

Available Safety Functions

STO	Safe Torque Off
SS1	Safe Stop 1
SS2	Safe Stop 2
SOS	Safety Operating Stop
SLS	Safety Limited Speed
SSM	Safe Speed Monitor
SDI	Safe Direction
SLI	Safety Limited Increment
SLT	Safety Limited Torque
SBC	Safe Brake Control

Getting Started with MR-J5 EtherNet/IP

For more information about MELSERVO-J5 products, visit our website.

QSG for MR-J5-G-N1 single axis RSLogix AOI

QSG for MR-J5W3-G multi-axis drive with RSLogix AOI

MR-J5 CIP Safety with Compact GuardLogix

MITSUBISHI ELECTRIC AUTOMATION, INC.
500 Corporate Woods Parkway, Vernon Hills, IL 60061
Ph 847.478.2100 • Fx 847.478.2253
us.MitsubishiElectric.com/fa/en

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