

# Add-On Instructions for Allen-Bradley PLC

## Add-On Instruction

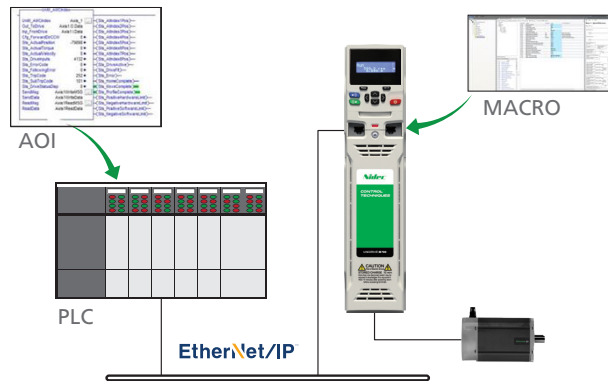
### For Unidrive M700 and Unidrive M702 AC/Servo drives.

Control Techniques' Add-On Instruction for Allen-Bradley® CompactLogix™ and ControlLogix™ PLCs expedites and simplifies the integration of the Advanced Motion Controller (AMC) on-board Unidrive M700 and M702 drives.

Incorporating the Unidrive M's ladder logic, controller tags, and user-defined variables, the AOI enables easy integration over EtherNet/IP of Control Techniques' Unidrive M into the RSLogix™ 5000 programming environment with one simple instruction. To use the Add-On Instruction, RSLogix™ 5000 version 16 or greater is required.



Unidrive M AC/Servo drives with ratings up to 4,200 HP



Download the Unidrive M AMC macro file and AOI

## Integration in 6 Simple Steps:

- Download the Unidrive M AMC macro file and AOI from: [www.controltechniques.com](http://www.controltechniques.com)
- Load the macro file in the drive using Unidrive M Connect software
- Connect the Unidrive M to the Allen-Bradley® PLC over EtherNet/IP
- Import the Unidrive M AMC AOI into the RSLogix™ 5000 environment
- Insert the AOI into your PLC program
- Write your application logic using the pre-defined data structures

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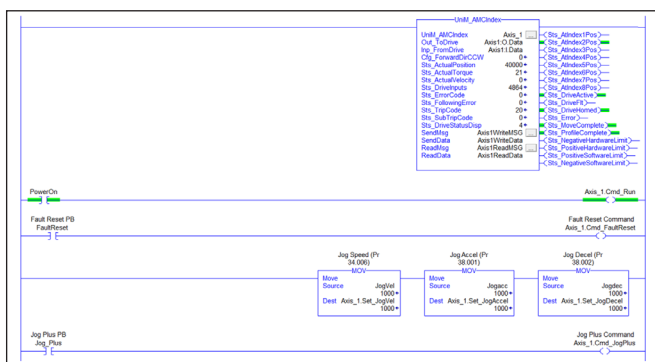
## Advanced Motion Controller

The Advanced Motion Controller (AMC) is a powerful, high performance controller onboard Unidrive M700 series universal AC/Servo drives. The AMC provides extremely fast position loop update rates and is ideally suited for demanding positioning applications. An AMC macro file for use in the Unidrive M Connect software configures the AMC onboard the Unidrive M for use with the AOI.

## AOI Motion Functionality

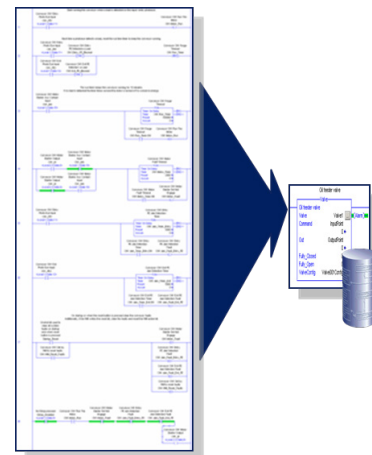
The Unidrive M AOI integrates control of the AMC onboard Unidrive M700 series drives with Allen-Bradley® PLCs.

- 8 Absolute indexing positions
- 6 Homing types
- Forward/Reverse jogging and velocity commands
- Drive status and position feedback
- Fault and trip diagnostics
- Current limit control
- Motor brake control
- Hardware and software over-travel limits



Sample RSLogix™ 5000 programming code

The AMC AOI contains over 100 lines of code to make integration of Unidrive M quick and easy!



## Rapid Integration

With the functionality built-in to the Unidrive M AOI, integration of Unidrive M drives into an RSLogix™ 5000 programming environment can be accomplished in minutes saving time and money, while promoting consistency and reducing the need for detailed device knowledge.

## Utilizing Familiar Programming Environment

The Unidrive M AOI utilizes the same variable nomenclature and ladder logic programming environment commonly used with Allen-Bradley® applications enabling easy integration into the Logix architecture. The AOI is also an open and editable file allowing for further flexibility.

## Complimentary Downloads

Go to [www.controltechniques.com](http://www.controltechniques.com) for:

- Unidrive M AOI user manual
- Sample RSLogix™ 5000 programming code
- Unidrive M700 & M702 AMC macro file
- Unidrive M AMC AOI

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[www.controltechniques.com](http://www.controltechniques.com)