Purpose:
To inform customers of enhancements made to GN3-20 and GN3-40 Controllers.

Description of Enhancements:

1. **Surge Suppression**: A surge supressor has been added to all Model 20 and Model 40 Motion Controllers to absorb high voltage spikes on the input power such as lightning strikes. This suppressor is mounted on the TB3 incoming power terminal block and is fully encased in heatshrink material. The unit is rated for 2.5 amps maximum and provides both line-to-line and line-to-ground protection, independent of the input voltage rating of the motion controller. The resulting increase in ability to withstand high voltage spikes should benefit the user with higher noise immunity and greater power supply reliability.

2. **Extended I/O Connector**: All Model 20 and Model 40 Motion Controllers, which include the Extended I/O option, are now equipped with shorter locking latches to provide superior latching of low profile cable connectors compatible with Pamux I/O.

Documentation:
A new Appendix H-1 for the Model 20/40 Installation and Operation Manual is attached, documenting the surge suppressor wiring.

Compatibility:

1. **Extended I/O Connector Use with Old Cables**: To use a new Motion Controller with old-style extended I/O cables, you may have to remove a strain relief from the cable.

2. **Hi-Pot Testing**: If you are performing Hi-Pot testing on incoming Motion Controllers, you will have to disconnect the surge suppressor during testing.

3. **Functionality**: Product functionality should be unaffected by these improvements.
**Product Identification:**

All Model 20 and Model 40 Motion Controllers with a v2.1a or later suffix to their Model Number include these enhancements.