



## **1394 Servo Firmware Version 5.01** **(Catalog Number 1394-SJTxx-A)**

The 1394 Servo firmware v5.01 includes the following support, parameters, and enhancements.

### **22 kW Support**

The 1394 Servo firmware v5.01 supports the 22 kW system module (including 1394-DCLM) with parameter changes, a new parameter group, and new faults.

#### **Parameters**

The parameter changes apply to the 22 kW system module. The parameter changes are:

- Parameters 39-51 are 22 kW smart power support parameters.
- Parameter 9 is automatically configured in smart system.
- Start-up mode asks for the shunt type during setup.
- Start-up mode will not ask for the line voltage during the setup of the smart system.

#### **New System Parameter Group**

The 1394 Servo firmware v5.01 offers a new Smart Sys Data Parms group.

#### **New Faults**

The new faults are listed in the following table.

<b>Fault</b>	<b>Description</b>
Shunt TmOut	The shunt resistor watch circuit has timed out.
Cur Limit	The system module has experienced an over current condition.
Pre Charge	The system module has a pre-charge system problem.
Bus Config	The system module has determined an incorrect configuration of the bus mode (special DC link setup).

### **New Motor Support**


The following motors are now supported by the 1394 Servo firmware v5.01.

- 1326AB-B420C
- 1326AB-B530C
- 1326AB-B720C
- 1326AB-B720F
- 1326AN-B320H
- 1326AS-B360Z
- External - this is the 1394-DIM selection.

AB Parts

## New Parameters

The following table lists the new parameters.

Parameter Number	Description
7	System I/O Image. This parameter displays the processor image of hardware signals. Refer to the <i>1394 Digital AC Multi-Axis Motion Control System User Manual</i> (publication 1394-5.0).
24	Use Enable. This parameter specifies whether the hardware enable signals are used on the wiring board for input. If configured as Not Used, the HIM or ScanPort device will provide the enable signal for the axis.   <b>ATTENTION:</b> Unexpected motion can occur if parameter 23 is not properly configured to limit ScanPort control to the desired axis. If only one axis is intended to be enabled, parameter 23 must be configured to allow only that axis to move. The default is for all axis to respond.
25	Hardware Rev Level. This parameter specifies the revision level of the system module hardware.

## Enhancements

The latest enhancements supported by the 1394 Servo firmware v5.01 include the following:

- Cur Scaling fault name changed to Ring Write.
- Support added for the new SCANport attribute to indicate changes in the NV memory configuration.
- Test mode added for a no bus enable to allow manufacturing to test the 1394-DIM without applying the DC bus.
- Fault reporting that includes having the fault queue maintain a list of faults that took the drive off line.
- Parameters 18, 7, and 25 are included in the Monitor Parm group. Parameter 24 is included in the Setup group.

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