



# ControlLogix Drive Module

(Cat. No. 1756-DMD30)

These release notes correspond to major revision 2, minor revision 01 of the ControlLogix Drive Module firmware. Use this firmware release with:

<b>Software Product:</b>	<b>Compatible Version:</b>
RSLogix 5000 programming software	8.02.00
RSLinx software	2.30
RSNetWorx for ControlNet software	3.00
DriveExecutive programming software	1.01

## Corrected Anomalies

- Corrected the speed PI integrator limit function (associated with bit 9 [Mtrng PwrLim] and 25 [Regen PwrLim] of parameter 304 [Limit Status]). The function no longer prevents the PI integrator from going positive while the drive is operating in the Min or Max modes. It only prevents the integrator from going negative.
- Corrected an anomaly which prevented the linking of parameter 2040 [Rail Port 0 Ch 0] through 2049 [Rail Port 0 Ch 3] to UserDefinedIntegerData input words in the Custom User Defined Controller Comm Format.
- Corrected an anomaly which caused the loss of autotuning results during a power cycle.

# Allen-Braun

## Changes

- Enabled SynchLink functionality
- Added field economy function, see Appendix B, “1756-DMD30 Specific Information” in publication 1756-UM522B-EN-P, *User Manual - ControlLogix Drive Module*
- Added new Controller Communication Format (Custom User-Defined Control). You must program the controller with version 12 of RSLogix 5000 to use this format.
- Added two configurable inverter blocks to Velocity Position Loop (VPL) logic. Both are enabled and disabled by bits in parameter 153 [Control Options]
- Parameter 102 [Spd Reg Pos Lim] - the default value has changed to 3
- Parameter 103 [Spd Reg Neg Lim] - the default value has changed to -3
- Parameter 141 [FricComp Setup] - the default value has changed to 325 and the maximum value has changed to 999
- Parameter 153 [Control Options] / bit 14 [Invt Spd Fbk] enables an inverter in the speed feedback path
- Parameter 153 [Control Options] / bit 15 [Invt Mtr Cur] enables an inverter in the current reference path
- Parameter 166 [Motor Ctrl Cmmd] / bit 18 [Fld Econ En] enables the field economy function
- Parameter 200 [Time Axis Rate] - the maximum value has changed to 20
- Parameter 204 [LimGen Y axis Mx] - the default value has changed to 0.05
- Parameter 205 [LimGen Y axis Mn] - the default value has changed to 0.25
- Parameter 206 [LimGen Y axis In] - the minimum value has changed to -8, the maximum value has changed to 8

## Changes (continued)

- Parameter 307 - added parameter 307 [Output Voltage] to the Feedback group of the DPS/PMI file
- Parameter 308 - added parameter 308 [Output Current] to the Feedback group of the DPS/PMI file
- Parameter 315 [VPL Build Number] indicates the build number of the Velocity Position Loop (VPL) firmware in the drive module
- Parameter 337 [Mtr I2T Curr Min] - the default value has changed to 0.5
- Parameter 338 [Mtr I2T Spd Min] - the default value has changed to 1
- Parameter 339 [Mtr I2T Calibrat] - the default value has changed to 2.0, the minimum value has changed to 1.1 and the maximum value has changed to 4
- Parameter 340 [Mtr I2T Trp ThrH] - the default value has changed to 1.15
- Parameter 360 [Min Flux] - the minimum value has changed to 0.1
- Parameter 382 [Lgx OutOfRun Cnfg] - the minimum value has changed to 0 Ignore
- Parameter 1010 [SL Rx Comm Frmt] - changed maximum value to 0A,4D,18B (17)
- Parameter 1020 [SL Tx Comm Frmt] - changed maximum value to 0A,4D,18B (17)
- Parameter 1228 [SL Error History] displays SynchLink faults which have occurred since the last fault clear operation or power cycle
- Parameter 2107 [Field Econ Limit] limits the field current reference when the drive is in field economy mode
- Parameter 2108 [Field Curr Out] displays the final field current reference
- Parameter 2128 [Arm Amps Fdbk] - has been deleted
- Parameter 2129 [Arm Volt Fdbk] - has been deleted

## Changes (continued)

- Parameter 2185 [Hot Field Curr] - changed default value of parameter to 0.10 Amps
- Parameter 2186 [Min Field Curr] - changed default value to 0.10 Amps
- Parameter 2187 [Field Loss Amps] - changed default value to 0.10 Amps
- Parameter 2188 [Field Off Delay] - the default value has changed to 180

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