DMC-1200 Controller

New features for Rev 1.0r & 2.0r April 17, 2009:

- Added Stop Code 16 for Stepper Position Maintenance Mode
- Added QR command

New feature for Rev 1.0q & 2.0q December 22, 2006:

No new features added

New feature for Rev 1.0p & 2.0p October 3, 2005:

- Added Stepper Motor Position Maintenance Mode (http://www.galilmc.com/support/appnotes/optima/note2445.pdf)
- Added ECAM with two linear segments (http://www.galilmc.com/support/appnotes/optima/note2444.pdf)

New feature for Rev 1.00 & 2.00 July 6, 2004 :

- Improved BS command for AMP-540
- Added ELO support. TA3 and CN operand added for abort input application program disable
- Added Ramp to Gearing based on position. Added GD command for Gearing Distance and _GP returns lost distance
- Position Follower Mode added (PT command)

New feature for Rev 1.0n & 2.0n December 18, 2003:

- Added RS-1 functionality to temporarily set controller back to factory defaults without doing a Master Reset
- Added ~a to ~h operands for variable axis designators
- Added AG, AU, AW, BR, QH, and TA for AMP-19540
- Modified BS command for AMP-19540
- Added TK command to set peak motor torque
- Optimized cornering motion profile

Added bus communication interrupt within IN command

New feature for Rev 1.0m & 2.0m December 23, 2002:

- Added LC command to set stepper in low current mode via ampen
- Added BK and SL commands to debug user application programs
- Added GA interrogation
- Added AUTOERR special label
- Added _RS operand
- Added double read of selective axis abort input
- Special bus interrupts added for new software drivers

New feature for Rev 1.01 & 2.01 April 9, 2002:

- OE and DV can now use "?"
- JP command will no longer inhibit Timer interrupt
- @AN function will no longer inhibit interrupts in fast firmware

New feature for Rev 1.0k October 21, 2000:

- Operand _EO returns the state of echo-on
- Operand BV returns the number of axes

New feature for Rev 1.0j May 5, 2000:

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New feature for Rev 1.0i March 8, 2000:

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New feature for Rev 1.0h December 8, 1999:

1. '

New feature for Rev 1.0e October 21, 1999:

- Can start with a comment line in an application program
- BZ<t, where t is the time of the BZ timeout
- Option jumper now causes Motor Off on power up
 Note: must have controller operating system rev 2.0 or higher

New feature for Rev 1.0d June 24, 1999:

• AD, AP, AV when not running won't generate error

New feature for Rev 1.0b February 8, 1999:

Analog inputs can be recorded through record array with AF

New feature for Rev 1.0a December 28, 1998:

- A virtual axis, N, added for commands GA,SP,PR,JG,AC,DC,IT,ST,DP,RP,BG,EA,PA
- Analog inputs now reported as part of QR record
- Ability to abort motion on an individual axis with the fourth field of CN as a 1

New feature for Rev 1.0 September 18, 1998:

- Auxiliary encoders can be used as general inputs
- SQRT function resolution improved to give .0001 accuracy
- #CMDERR subroutine upgraded for multitasking:
 - Threads other than 0 are shut off if cause error
 - o IN command on thread 0 can be interrupted
 - It is possible to restart from specific threads after command error subroutine. Sample format XQ_ED2(or ED3),_ED1,1 Consult factory for more information.

- _VM returns instantaneous vector velocity
- Two coordinated masters S and T:
 - o BGST STST AMST
 - o VA2000,4000 VDT=10000
- CN can be interrogated _CN0, _CN1, _CN2
- ECAM slave tables and slave modulus can be changed if that axis is not actively engaged in ECAM mode.
- KI resolution extended to 1/128
- Fourth field of II is a mask where a 1 will make an input active high for interrupt. _II1 returns mask.
- _AVX will return the vector distance traveled in the specified coordinate system, where X is either S or T coordinate system.