S300 / S700 Firmware

Changes from 6.07 (03/2019) to 6.08 (02/2020)

General

- DRVCNFG4 Bit 0x200000 for 2 KHz digital input acquisition
- VCT functionality (similar to SR600) implemented.

Motor Support

- Switching off of field weakening (MVANGLB=MSPEED) when an AKM2G motor is loaded from the motor data base.
- Number of free motor data sets included in the output of MEMORY command.
- Motor data base 1.50 included

Feedback support

- New ASCII commands for HDSL memory modifications HDSLDIR,HDSLDEL,HDSLREAD,HDSLWRITE,HDSLDATA, HDSL2CARD,CARD2HDSL
- new parameters MTEMPTYPE, TEMPMFB, MAXTEMPMFB for Endat 2.2 and HDSL.
  MTEMPTYPE selects the connector for temperature sensor (X1/X2 or feedback for motor- and/or feedback-temperature.
  HDSL: supervision of external temperature sensor connected to the encoder instead of the feedback temperature.

Fieldbus support

- CAN: CAN-PDO’s für DI2T and MI2T implemented
- DeviceNet functionality included in the standard firmware again.
- EtherCat control word bit 0x10 has the same function as 0x800 (start home move). This improves conformance to DS402.
- New EtherCat PDO objects 0x2042 and 0x2043 implemented for real time MPHASE read/write.
- EtherCat PDO's 0x20B2 sub1/2 (ANIN1,ANIN2) processed in 250 µsec instead of 1 msec.

Bug fixes from 6.07 (03/2019) to 6.08 (02/2020)

- Problem with full display control fixed. There was no display function when at 24V "switch on" the right key has been pressed for full display functionality (S300 only). Problem with Display-Parameter S03 (analog offset) fixed.
- Hall only: MPHASE problem fixed (after clearing of error fault without COLDSTART there was a wrong commutation).
- For VSCALE1/2 = <-35...0> RPM there was a wrong scaling for the analog velocity input
- Round-off error for ANIN1/ANIN2 fixed
- motor temperature calculation for low resistance sensor fixed (PT100), NTC and PTC possible.