# SIEMENS

I CS LS LD August 26, 2013

## FAQ for SINAMICS DCM

### **Question:**

What new functions are available from firmware V1.4?

#### Answer:

Devices have been delivered with the new firmware V1.4 since the beginning of August 2013. The new available functions are described below.

#### Note:

The new CUD is required for using firmware version V1.4

| Item number       | Designation          | Order number (MLFB) | For firmware     |
|-------------------|----------------------|---------------------|------------------|
| C98043-A7100-L1   | Standard CUD         | 6RY1803-0AA00       | V1.1, V1.2, V1.3 |
| C98043-A7100-L2   | Advanced CUD         | 6RY1803-0AA05       | V1.1, V1.2, V1.3 |
| C98043-A7100-L100 | Standard CUD painted | 6RY1803-0AA20       | V1.1, V1.2, V1.3 |
| C98043-A7100-L200 | Advanced CUD painted | 6RY1803-0AA25       | V1.1, V1.2, V1.3 |
| C98043-A7100-L3   | Standard CUD         | 6RY1803-0AA00-0AA1  | All versions     |
| C98043-A7100-L4   | Advanced CUD         | 6RY1803-0AA05-0AA1  | All versions     |
| C98043-A7100-L103 | Standard CUD painted | 6RY1803-0AA20-0AA1  | All versions     |
| C98043-A7100-L204 | Advanced CUD painted | 6RY1803-0AA25-0AA1  | All versions     |

#### New functions as of firmware V1.4

| BiCOs for IOs  |
|--|
| All analog & digital inputs now have BiCOs that can be used for setting for test and       |
| simulation purposes.   |
| Know-how protection  |
| The know-how protection can be activated on SINAMICS DCM as a p-parameter                  |
| read/write disable.  |
| KP gain values greater than 200  |
| KP valuesgreater than 200 are now possible that are required for knife drives of cross     |
| cutters.   |
| Adjustment option of offset angle for CM Control Module                                    |
| In some cases the synchronizing voltage will not be picked off at the power unit, but from |
| the primary side of the converter transformer, i.e. by means of voltage transformers from  |
| the switchgear. The phase shift occurring in the converter transformer is taken into       |
| account by the software.   |
|  |

| Heating applications  |  |  |
|---|--|--|
| Rms value current control or rms value power control by means of parameters r52126                              |  |  |
| Armature current actual value rms value, r52127 Armature voltage rms value and r52128                           |  |  |
| Active power for a pure ohmic load.   |  |  |
| TM150   |  |  |
| Support of TM150 Terminal Module on SINAMICS DCM.   |  |  |
| Ethernet/IP   |  |  |
| Support of the Ethernet-based fieldbus of the Open Device Net Vendor Association                                |  |  |
| (ODVA) - a fieldbus that is widely used in automation systems. Use of the additionally                          |  |  |
| required CBE20 module also enables consistency between the office network and a                                 |  |  |
| controlled system for the SINAMICS DCM.   |  |  |
| Automatic restart   |  |  |
| The "Automatic restart active" bit is made accessible for the SINAMICS DCM so that w                            |  |  |
| this bit is set an automatic restart of the device is performed.  |  |  |
| Homing with external zero mark  |  |  |
| the SINAMICS DCM does not have any fast interrupt driven measuring input inputs on                              |  |  |
| the SinAMICS DCM does not have any last interrupt-driven measuring input inputs, on-                            |  |  |
| evaluation are still not possible   |  |  |
| Device ontion 115   |  |  |
| Device option L15 is supplemented by a warning message that is output if the device is                          |  |  |
| automatically derated on account of L15   |  |  |
| OALink  |  |  |
| Support of an additional OA application that can be activated for CUD (or CU320-2:                              |  |  |
| license required), that enables data to be exchanged between several Control Units via                          |  |  |
| Drive-CliQ cable at the relevant connections.   |  |  |
| Extension of option list (allocation board)   |  |  |
| The option list is now extended to 24 additional options in total that can be written to the                    |  |  |
| allocation board.   |  |  |
| Function diagram screen forms   |  |  |
| Screen form(s) for digital inputs/outputs: Starter integration of function diagrams FP2050,                     |  |  |
| FP2055, FP2060, FP2065 and FP2070.  |  |  |
| Screen form(s) for analog inputs/outputs: Starter integration of function diagrams FP2075,                      |  |  |
| FP2080, FP2085, FP2090 and FP2095.  |  |  |
| Screen form(s) for definition of the fixed setpoints: Starter integration of function diagram                   |  |  |
|   |  |  |
| Screen form(s) for selection of the command data set: Starter Integration of function                           |  |  |
| alagram FP8060.   |  |  |
|   |  |  |
| Frood allu Frood.<br>Sereen form(c) for absolute value in the case of incremental encoders: Starter integration |  |  |
| of function diagram EP/750  |  |  |
| High-current electrolysis annlications  |  |  |
| To support high-current electrolysis applications, parameter p50826 Field power unit                            |  |  |
| compensation values has been included in the CM Control Module, and parameters                                  |  |  |
| p50079, p50103, p50104, p50111, p50148, p50150, p50151, p50159, p50160, p50161,                                 |  |  |
| p50179, p50192, p50260, p50541, p50543, p50546, p50550, p50563, p50961, p51592                                  |  |  |
| and p51594 can now be changed during operation.   |  |  |
| Compliance with the requirements of standard UL 508c  |  |  |
| Adaptation of the response of thermal motor model calculation to satisfy the requirements                       |  |  |
| of standard UL 508c.  |  |  |
|   |  |  |