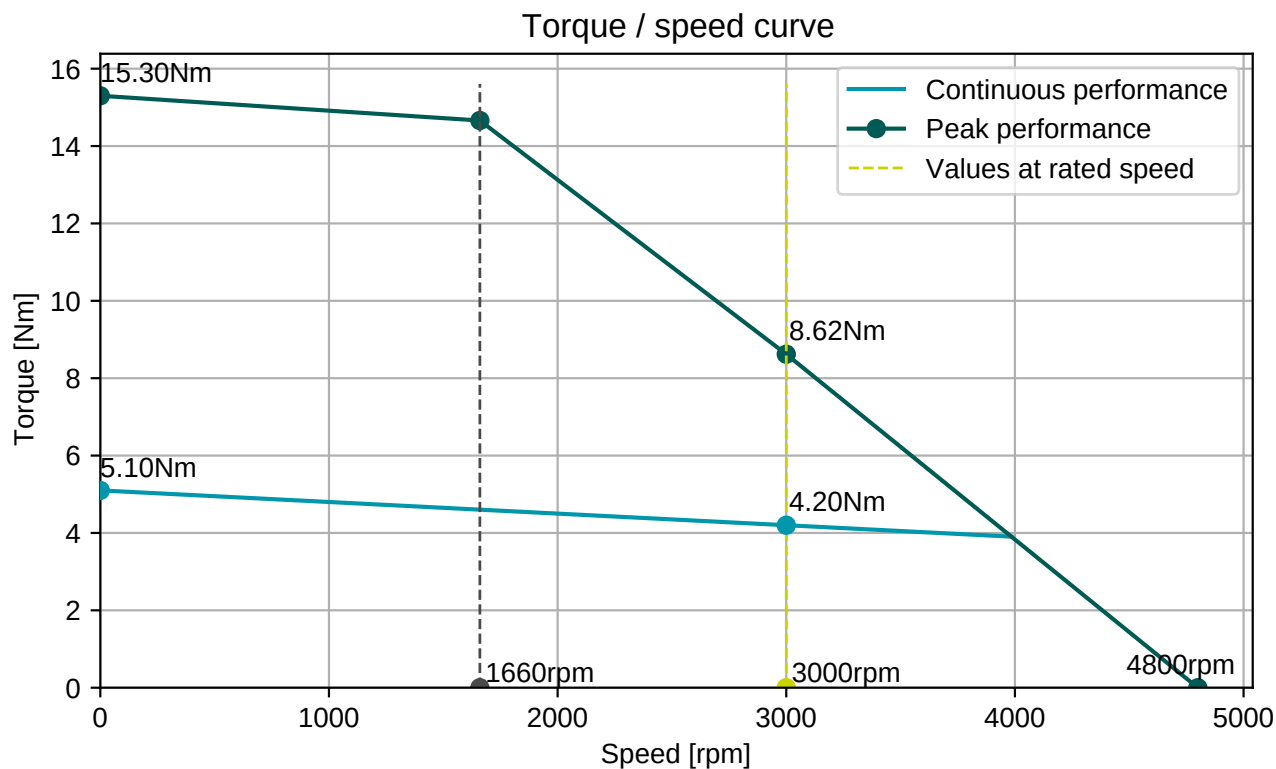


| Engineering data (WIN 708)           |                              | Mechanical data (setting 46)                           |                                                     |
|--------------------------------------|------------------------------|--------------------------------------------------------|-----------------------------------------------------|
| DC bus voltage                       | 320 V DC                     | Max mechanical speed                                   | 9000 rpm                                            |
| Nominal AC voltage                   | 220 V AC (rms)               | Mech. time constant                                    | 0.77 ms                                             |
| Rated voltage                        | 155 V AC (rms)               | Thermal time constant                                  | 25 min                                              |
| Rated power                          | 1.3 kW                       | Rotor inertia                                          | 2.04 kgcm <sup>2</sup>                              |
| Rated speed                          | 3000 rpm                     | Protection                                             | IP64                                                |
| Rated torque                         | 4.20 Nm                      | Color                                                  | RAL 9005                                            |
| Rated current                        | 7.01 A (rms)                 | Cooling                                                | Convection                                          |
| Peak torque                          | 15.3 Nm                      | Motor-only mass                                        | 3.8 kg                                              |
| Peak current                         | 31 A (rms)                   | Max. axial force 20kh                                  | 116 N                                               |
| Stall torque                         | 5.1 Nm                       | Max. radial force 20kh                                 | 611 N*                                              |
| Stall current                        | 6.8 A (rms)                  | Max. axial force 100kh                                 | 68 N                                                |
| No load speed                        | 4800 rpm                     | Max. radial force 100kh                                | 357 N*                                              |
| EMF constant ±10%                    | 45.5 V AC (rms)<br>/ 1000rpm | * Defined for point of action at ½ output shaft length |                                                     |
| Theoretical torque constant ±10%     | 0.75 Nm / A<br>(rms)         |                                                        |                                                     |
| Torque constant ±10%<br>@ rated load | 0.60 Nm / A<br>(rms)         |                                                        |                                                     |
| Number of poles                      | 10                           | Sensors                                                |                                                     |
| Electrical time constant             | 5.48 ms                      | Temperature                                            | PT1000 {PT1000}                                     |
| Winding terminal resistance          | 1.24 Ω                       | Feedback                                               | SKM36 (Hiperface) multi-turn,<br>128 sin/cos+12bits |
| Rotary field terminal inductance     | 6.8 mH                       | Brake                                                  |                                                     |
| Customs info                         |                              | Braking torque                                         | 9.00 Nm                                             |
| HS Code                              | 85015220                     | Voltage                                                | 24 V DC                                             |
|                                      |                              | Power @20°C                                            | 18.0 W                                              |
|                                      |                              | Current @20°C                                          | 0.75 A                                              |
|                                      |                              | Inertia                                                | 0.60 kgcm <sup>2</sup>                              |
|                                      |                              | Mass                                                   | 0.82 kg                                             |


**BGC110N00001216000**

M23, 8 poles, rotary


**AGC113N00001215000**

M23, 17 poles, rotary


**Connector 1 (9)**

|   |        |
|---|--------|
| 1 | U      |
| 4 | V      |
| 3 | W      |
| 2 | PE     |
| A | Brake+ |
| B | Brake- |
| C |        |
| D |        |

**Connector 2 (130)**

|      |            |
|------|------------|
| 1/9  | SIN/REFSIN |
| 3/11 | COS/REFCOS |
| 5/13 | DATA/DATA- |
| 4/2  | Us/GND     |
| 14/7 | Therm      |

