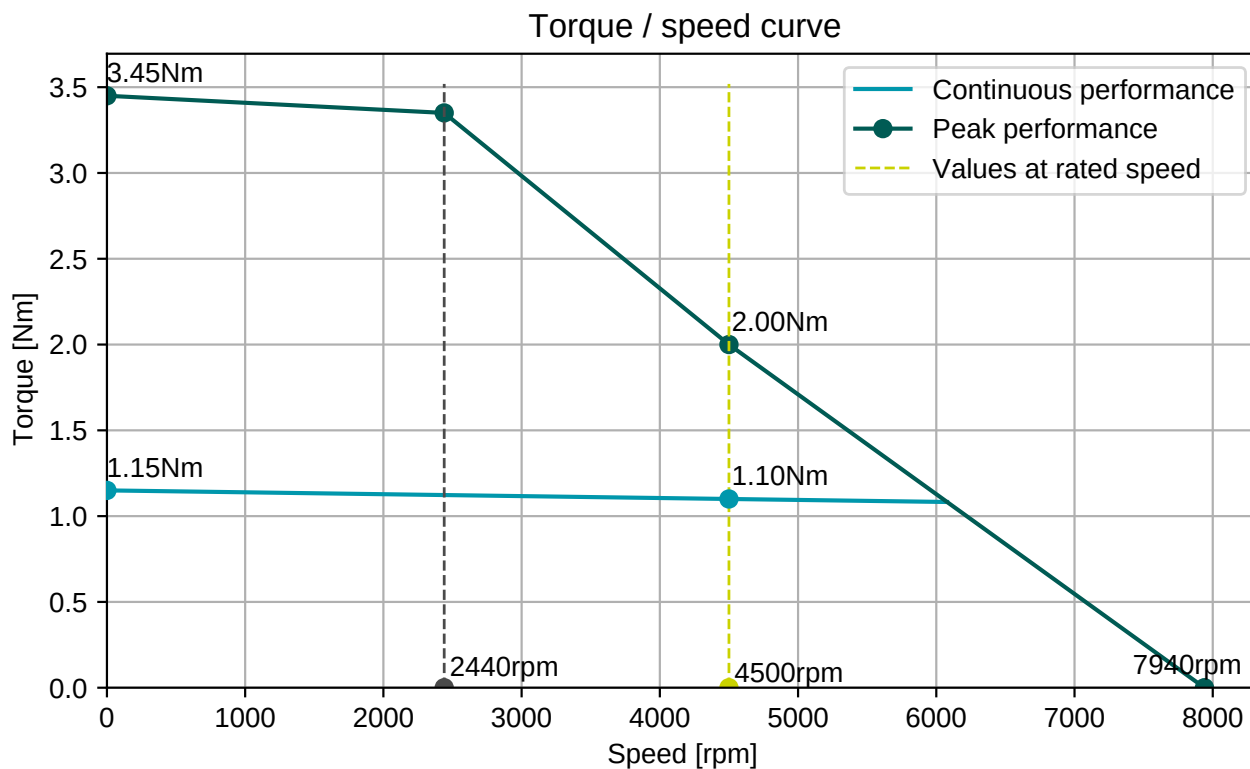


| Engineering data (WIN 960)           |                              | Mechanical data (setting 48)                           |                                   |
|--------------------------------------|------------------------------|--------------------------------------------------------|-----------------------------------|
| DC bus voltage                       | 320 V DC                     | Max mechanical speed                                   | 12000 rpm                         |
| Nominal AC voltage                   | 220 V AC (rms)               | Mech. time constant                                    | 1.39 ms                           |
| Rated voltage                        | 154 V AC (rms)               | Thermal time constant                                  | 21 min                            |
| Rated power                          | 518 W                        | Rotor inertia                                          | 0.31 kgcm <sup>2</sup>            |
| Rated speed                          | 4500 rpm                     | Protection                                             | IP64                              |
| Rated torque                         | 1.10 Nm                      | Color                                                  | RAL 9005                          |
| Rated current                        | 2.94 A (rms)                 | Cooling                                                | Convection                        |
| Peak torque                          | 3.45 Nm                      | Motor-only mass                                        | 2 kg                              |
| Peak current                         | 11.1 A (rms)                 | Max. axial force 20kh                                  | 50 N                              |
| Stall torque                         | 1.15 Nm                      | Max. radial force 20kh                                 | 261 N*                            |
| Stall current                        | 2.53 A (rms)                 | Max. axial force 100kh                                 | 29 N                              |
| No load speed                        | 7940 rpm                     | Max. radial force 100kh                                | 153 N*                            |
| EMF constant ±10%                    | 27.5 V AC (rms)<br>/ 1000rpm | * Defined for point of action at ½ output shaft length |                                   |
| Theoretical torque constant ±10%     | 0.45 Nm / A<br>(rms)         |                                                        |                                   |
| Torque constant ±10%<br>@ rated load | 0.37 Nm / A<br>(rms)         |                                                        |                                   |
| Number of poles                      | 10                           | Sensors                                                |                                   |
| Electrical time constant             | 2.23 ms                      | Temperature                                            | PT1000 {PT1000}                   |
| Winding terminal resistance          | 5.37 Ω                       | Feedback                                               | EDS35 (HDSL) single-turn, 24 bits |
| Rotary field terminal inductance     | 12 mH                        | Brake                                                  |                                   |
| Customs info                         |                              | Braking torque                                         | 4.50 Nm                           |
| HS Code                              | 85015100                     | Voltage                                                | 24 V DC                           |
|                                      |                              | Power @20°C                                            | 12.0 W                            |
|                                      |                              | Current @20°C                                          | 0.50 A                            |
|                                      |                              | Inertia                                                | 0.20 kgcm <sup>2</sup>            |
|                                      |                              | Mass                                                   | 0.47 kg                           |


**BGC110N00001216000**

M23, 8 poles, rotary


**Connector 1 (283)**

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

