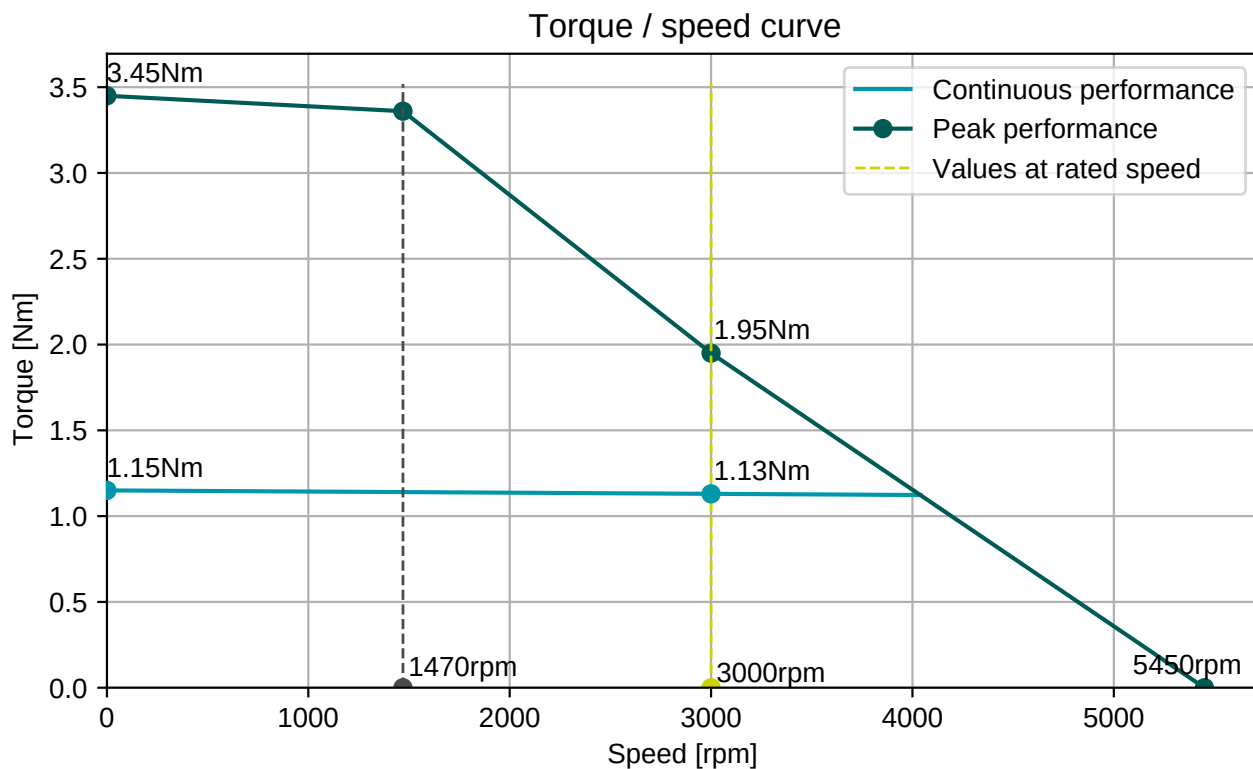


| Engineering data (WIN 1166)       |                             | Mechanical data (setting 48)                           |                                       |
|-----------------------------------|-----------------------------|--------------------------------------------------------|---------------------------------------|
| DC bus voltage                    | 48 V DC                     | Max mechanical speed                                   | 12000 rpm                             |
| Nominal AC voltage                | 34 V AC (rms)               | Mech. time constant                                    | 1.38 ms                               |
| Rated voltage                     | 25 V AC (rms)               | Thermal time constant                                  | 21 min                                |
| Rated power                       | 355 W                       | Rotor inertia                                          | 0.31 kgcm <sup>2</sup>                |
| Rated speed                       | 3000 rpm                    | Protection                                             | IP64                                  |
| Rated torque                      | 1.13 Nm                     | Color                                                  | RAL 9005                              |
| Rated current                     | 12.9 A (rms)                | Cooling                                                | Convection                            |
| Peak torque                       | 3.45 Nm                     | Motor-only mass                                        | 2 kg                                  |
| Peak current                      | 49.6 A (rms)                | Max. axial force 20kh                                  | 57 N                                  |
| Stall torque                      | 1.15 Nm                     | Max. radial force 20kh                                 | 299 N*                                |
| Stall current                     | 11.3 A (rms)                | Max. axial force 100kh                                 | 33 N                                  |
| No load speed                     | 5450 rpm                    | Max. radial force 100kh                                | 175 N*                                |
| EMF constant ±10%                 | 6.2 V AC (rms)<br>/ 1000rpm | * Defined for point of action at ½ output shaft length |                                       |
| Theoretical torque constant ±10%  | 0.1 Nm / A (rms)            |                                                        |                                       |
| Torque constant ±10% @ rated load | 0.1 Nm / A (rms)            |                                                        |                                       |
| Number of poles                   | 10                          | Sensors                                                |                                       |
| Electrical time constant          | 2.22 ms                     | Temperature                                            | PT1000 {PT1000}                       |
| Winding terminal resistance       | 0.27 Ω                      | Feedback                                               | EKM36 (HDSL) multi-turn, 17 + 12 bits |
| Rotary field terminal inductance  | 0.6 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)**

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

