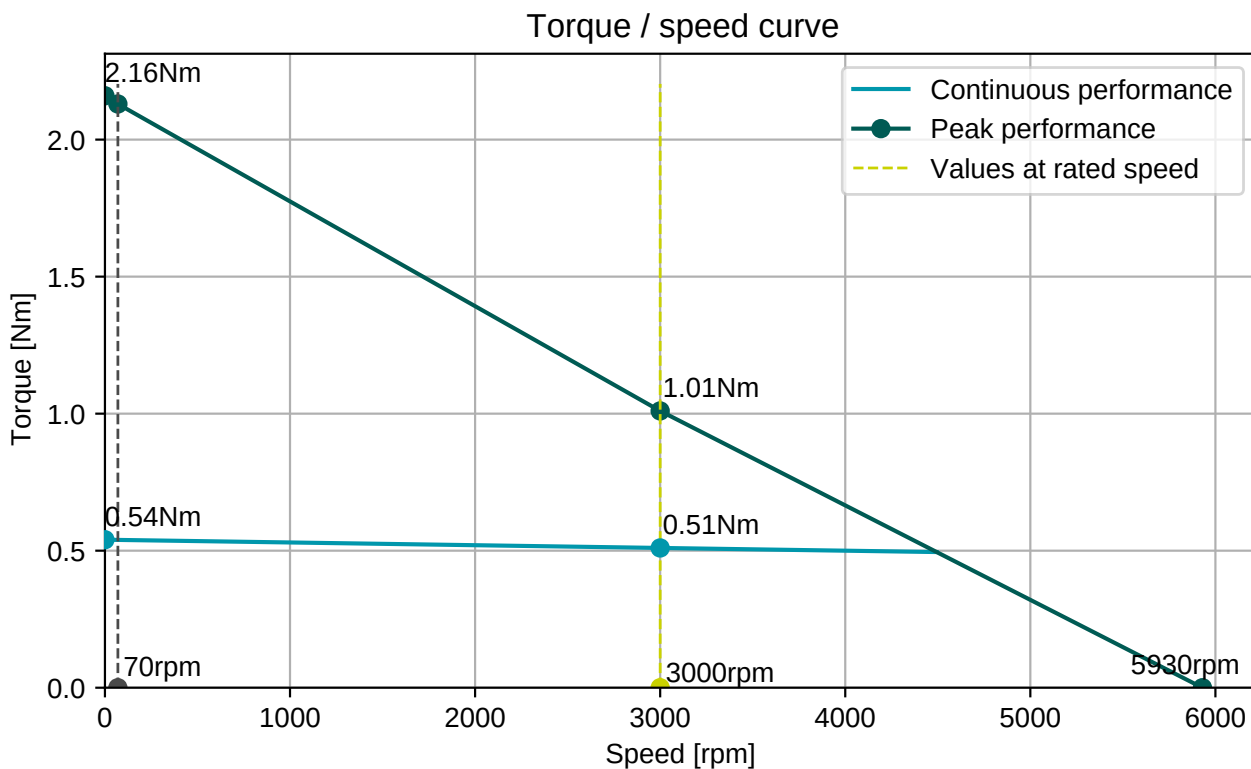


| Engineering data (WIN 978)           |                             | Mechanical data (setting 48)                                                                           |                        |
|--------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------|------------------------|
| DC bus voltage                       | 48 V DC                     | Max mechanical speed                                                                                   | 12000 rpm              |
| Nominal AC voltage                   | 33 V AC (rms)               | Mech. time constant                                                                                    | 1.45 ms                |
| Rated voltage                        | 25 V AC (rms)               | Thermal time constant                                                                                  | 12 min                 |
| Rated power                          | 160 W                       | Rotor inertia                                                                                          | 0.07 kgcm <sup>2</sup> |
| Rated speed                          | 3000 rpm                    | Protection                                                                                             | IP64                   |
| Rated torque                         | 0.51 Nm                     | Color                                                                                                  | RAL 9005               |
| Rated current                        | 6.01 A (rms)                | Cooling                                                                                                | Convection             |
| Peak torque                          | 2.16 Nm                     | Motor-only mass                                                                                        | 1.15 kg                |
| Peak current                         | 27.5 A (rms)                | Max. axial force 20kh                                                                                  | 45 N                   |
| Stall torque                         | 0.54 Nm                     | Max. radial force 20kh                                                                                 | 234 N*                 |
| Stall current                        | 6 A (rms)                   | Max. axial force 100kh                                                                                 | 26 N                   |
| No load speed                        | 5930 rpm                    | Max. radial force 100kh                                                                                | 137 N*                 |
| EMF constant ±10%                    | 5.5 V AC (rms)<br>/ 1000rpm | * Defined for point of action at ½ output shaft length                                                 |                        |
| Theoretical torque constant ±10%     | 0.09 Nm / A<br>(rms)        |                                                                                                        |                        |
| Torque constant ±10%<br>@ rated load | 0.08 Nm / A<br>(rms)        | <b>Sensors</b><br>Temperature PT1000 {PT1000}<br>Feedback EKM36 (HDSL) multi-turn,<br>18+12 bits, SIL2 |                        |
| Number of poles                      | 6                           |                                                                                                        |                        |
| Electrical time constant             | 1.21 ms                     |                                                                                                        |                        |
| Winding terminal resistance          | 0.99 Ω                      |                                                                                                        |                        |
| Rotary field terminal inductance     | 1.2 mH                      |                                                                                                        |                        |
| Customs info                         |                             |                                                                                                        |                        |
| HS Code                              | 85015100                    |                                                                                                        |                        |


**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+ |

