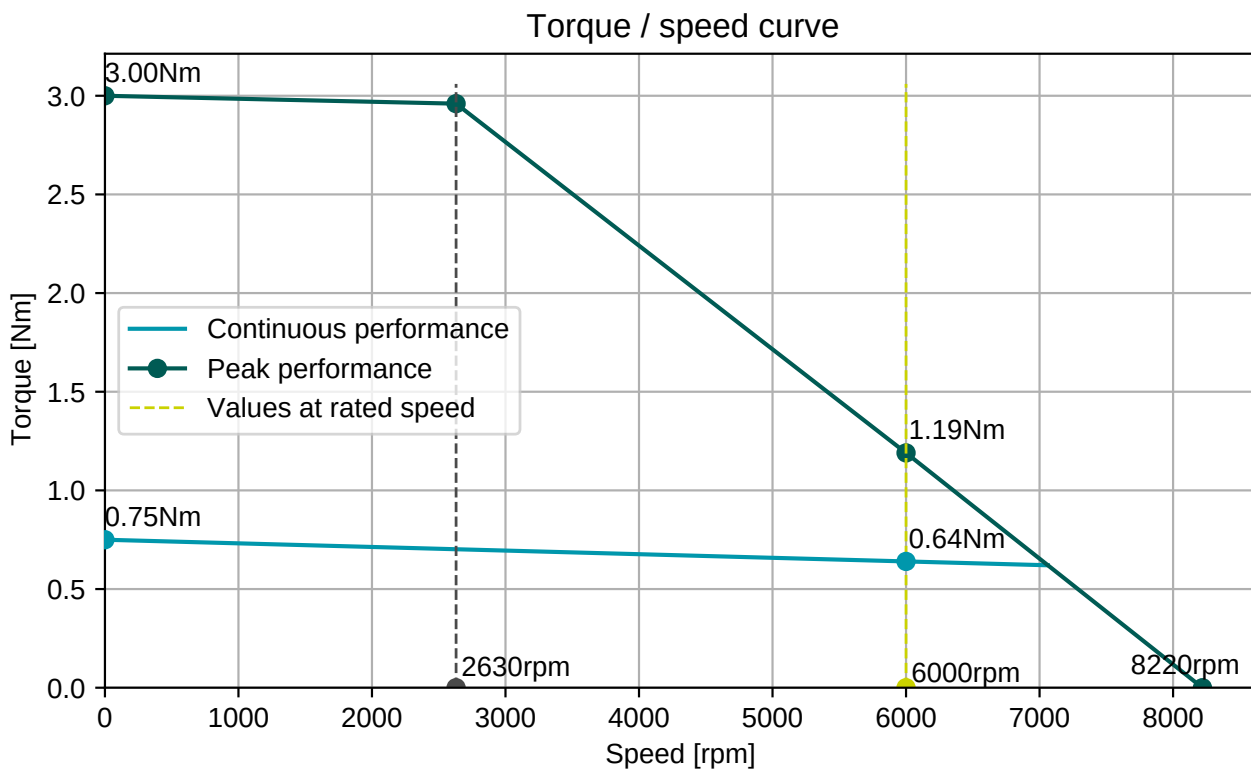


| Engineering data (WIN 819)           |                              | Mechanical data (setting 48)                           |                                        |
|--------------------------------------|------------------------------|--------------------------------------------------------|----------------------------------------|
| DC bus voltage                       | 320 V DC                     | Max mechanical speed                                   | 12000 rpm                              |
| Nominal AC voltage                   | 220 V AC (rms)               | Mech. time constant                                    | 1.08 ms                                |
| Rated voltage                        | 190 V AC (rms)               | Thermal time constant                                  | 12 min                                 |
| Rated power                          | 402 W                        | Rotor inertia                                          | 0.09 kgcm <sup>2</sup>                 |
| Rated speed                          | 6000 rpm                     | Protection                                             | IP64                                   |
| Rated torque                         | 0.64 Nm                      | Color                                                  | RAL 9005                               |
| Rated current                        | 1.57 A (rms)                 | Cooling                                                | Convection                             |
| Peak torque                          | 3 Nm                         | Motor-only mass                                        | 1.35 kg                                |
| Peak current                         | 7.9 A (rms)                  | Max. axial force 20kh                                  | 39 N                                   |
| Stall torque                         | 0.75 Nm                      | Max. radial force 20kh                                 | 206 N*                                 |
| Stall current                        | 1.71 A (rms)                 | Max. axial force 100kh                                 | 23 N                                   |
| No load speed                        | 8220 rpm                     | Max. radial force 100kh                                | 121 N*                                 |
| EMF constant ±10%                    | 26.5 V AC (rms)<br>/ 1000rpm | * Defined for point of action at ½ output shaft length |                                        |
| Theoretical torque constant ±10%     | 0.44 Nm / A<br>(rms)         |                                                        |                                        |
| Torque constant ±10%<br>@ rated load | 0.41 Nm / A<br>(rms)         |                                                        |                                        |
| Number of poles                      | 6                            | Sensors                                                |                                        |
| Electrical time constant             | 1.35 ms                      | Temperature                                            | PT1000 {PT1000}                        |
| Winding terminal resistance          | 13.36 Ω                      | Feedback                                               | EEM37 (HDSL) multi-turn,<br>17+12 bits |
| Rotary field terminal inductance     | 18 mH                        | Brake                                                  |                                        |
| Customs info                         |                              | Braking torque                                         | 2.00 Nm                                |
| HS Code                              | 85015100                     | Voltage                                                | 24 V DC                                |
|                                      |                              | Power @20°C                                            | 11.0 W                                 |
|                                      |                              | Current @20°C                                          | 0.46 A                                 |
|                                      |                              | Inertia                                                | 0.08 kgcm <sup>2</sup>                 |
|                                      |                              | Mass                                                   | 0.20 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+ |

