

**Engineering data (WIN 704)**

|                                      |                              |
|--------------------------------------|------------------------------|
| DC bus voltage                       | 320 V DC                     |
| Nominal AC voltage                   | 220 V AC (rms)               |
| Rated voltage                        | 153 V AC (rms)               |
| Rated power                          | 597 W                        |
| Rated speed                          | 3000 rpm                     |
| Rated torque                         | 1.90 Nm                      |
| Rated current                        | 3.06 A (rms)                 |
| Peak torque                          | 6.15 Nm                      |
| Peak current                         | 12.7 A (rms)                 |
| Stall torque                         | 2.05 Nm                      |
| Stall current                        | 2.79 A (rms)                 |
| No load speed                        | 4920 rpm                     |
| EMF constant ±10%                    | 44.5 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 0.74 Nm / A<br>(rms)         |
| Torque constant ±10%<br>@ rated load | 0.62 Nm / A<br>(rms)         |
| Number of poles                      | 10                           |
| Electrical time constant             | 2.53 ms                      |
| Winding terminal<br>resistance       | 5.26 Ω                       |
| Rotary field terminal<br>inductance  | 13.3 mH                      |

**Customs info**

|         |          |
|---------|----------|
| HS Code | 85015100 |
|---------|----------|

**Mechanical data (setting 48)**

|                         |                        |
|-------------------------|------------------------|
| Max mechanical speed    | 12000 rpm              |
| Mech. time constant     | 0.92 ms                |
| Thermal time constant   | 23 min                 |
| Rotor inertia           | 0.55 kgcm <sup>2</sup> |
| Protection              | IP64                   |
| Color                   | RAL 9005               |
| Cooling                 | Convection             |
| Motor-only mass         | 2.5 kg                 |
| Max. axial force 20kh   | 64 N                   |
| Max. radial force 20kh  | 335 N*                 |
| Max. axial force 100kh  | 37 N                   |
| Max. radial force 100kh | 196 N*                 |

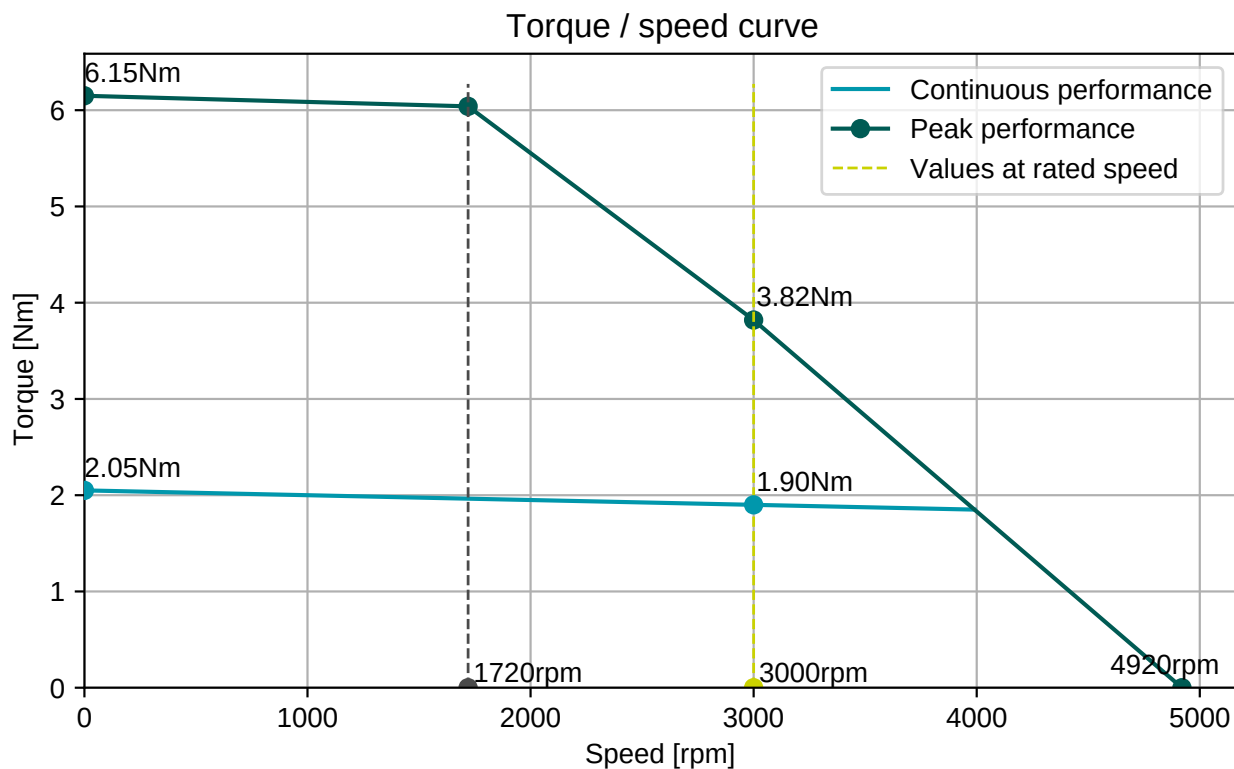
\* Defined for point of action at ½ output shaft length

**Sensors**

|             |                                   |
|-------------|-----------------------------------|
| Temperature | PT1000 {PT1000}                   |
| Feedback    | EES37 (HDSL) single-turn, 17 bits |

**Brake**

|                |                        |
|----------------|------------------------|
| Braking torque | 4.50 Nm                |
| 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+ |

