

**Engineering data (WIN 977)**

|                                      |                            |
|--------------------------------------|----------------------------|
| DC bus voltage                       | 320 V DC                   |
| Nominal AC voltage                   | 220 V AC (rms)             |
| Rated voltage                        | 185 V AC (rms)             |
| Rated power                          | 6.3 kW                     |
| Rated speed                          | 3000 rpm                   |
| Rated torque                         | 20.00 Nm                   |
| Rated current                        | 22.97 A (rms)              |
| Peak torque                          | 72 Nm                      |
| Peak current                         | 76.6 A (rms)               |
| Stall torque                         | 24 Nm                      |
| Stall current                        | 22.3 A (rms)               |
| No load speed                        | 3380 rpm                   |
| EMF constant ±10%                    | 65 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 1.08 Nm / A<br>(rms)       |
| Torque constant ±10%<br>@ rated load | 0.87 Nm / A<br>(rms)       |
| Number of poles                      | 10                         |
| Electrical time constant             | 9.09 ms                    |
| Winding terminal<br>resistance       | 0.22 Ω                     |
| Rotary field terminal<br>inductance  | 2 mH                       |

**Customs info**

|         |          |
|---------|----------|
| HS Code | 85015220 |
|---------|----------|

**Mechanical data (setting 48)**

|                         |                        |
|-------------------------|------------------------|
| Max mechanical speed    | 9000 rpm               |
| Mech. time constant     | 0.62 ms                |
| Thermal time constant   | 75 min                 |
| Rotor inertia           | 18.7 kgcm <sup>2</sup> |
| Protection              | IP64                   |
| Color                   | RAL 9005               |
| Cooling                 | Convection             |
| Motor-only mass         | 11.2 kg                |
| Max. axial force 20kh   | 147 N                  |
| Max. radial force 20kh  | 775 N*                 |
| Max. axial force 100kh  | 86 N                   |
| Max. radial force 100kh | 453 N*                 |

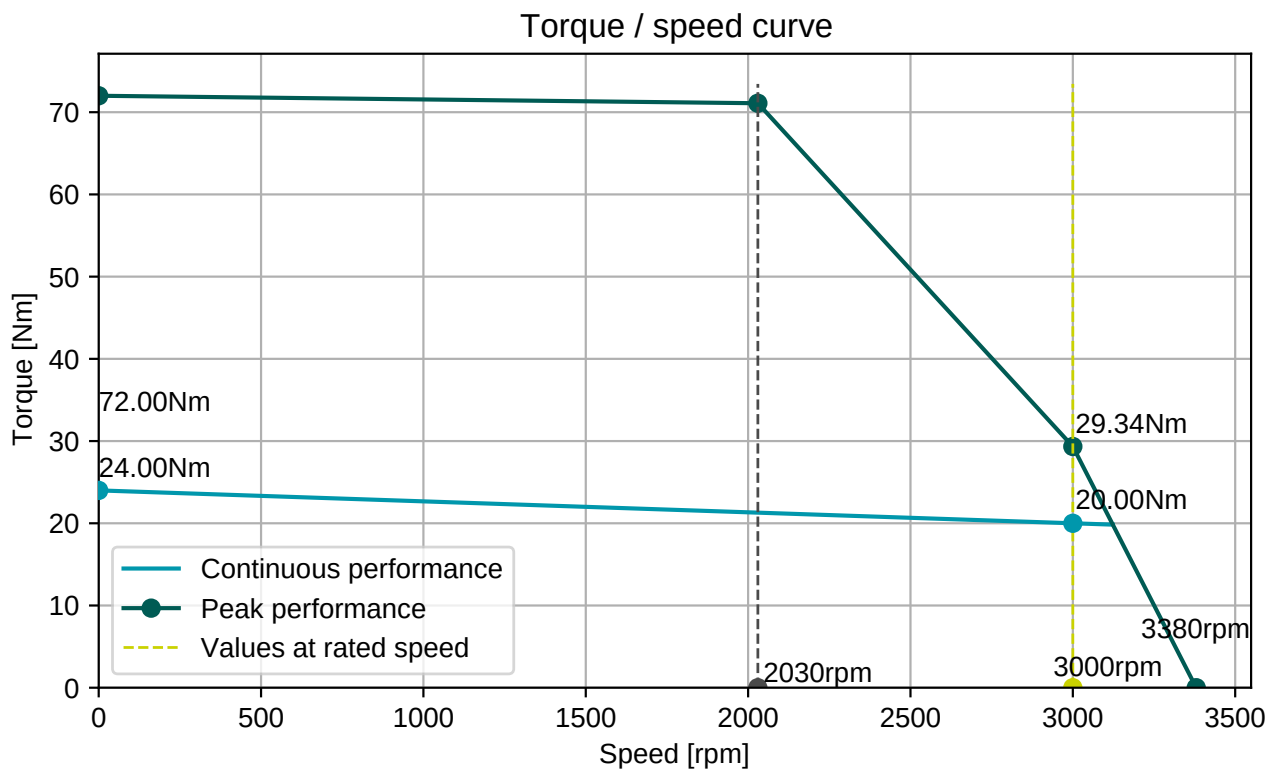
\* Defined for point of action at ½ output shaft length

**Sensors**

|             |                                          |
|-------------|------------------------------------------|
| Temperature | PT1000 {PT1000}                          |
| Feedback    | EKM36 (HDSL) multi-turn, 17 +<br>12 bits |

**Brake**

|                |                        |
|----------------|------------------------|
| Braking torque | 18.00 Nm               |
| Voltage        | 24 V DC                |
| Power @20°C    | 24.0 W                 |
| Current @20°C  | 1.00 A                 |
| Inertia        | 2.00 kgcm <sup>2</sup> |
| Mass           | 1.80 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+ |

