

**Engineering data (WIN 733)**

|                                   |                             |
|-----------------------------------|-----------------------------|
| DC bus voltage                    | 560 V DC                    |
| Nominal AC voltage                | 380 V AC (rms)              |
| Rated voltage                     | 297 V AC (rms)              |
| Rated power                       | 5.0 kW                      |
| Rated speed                       | 3000 rpm                    |
| Rated torque                      | 16.00 Nm                    |
| Rated current                     | 11.5 A (rms)                |
| Peak torque                       | 60 Nm                       |
| Peak current                      | 39.8 A (rms)                |
| Stall torque                      | 20 Nm                       |
| Stall current                     | 11.6 A (rms)                |
| No load speed                     | 3650 rpm                    |
| EMF constant ±10%                 | 104 V AC (rms)<br>/ 1000rpm |
| Theoretical torque constant ±10%  | 1.72 Nm / A<br>(rms)        |
| Torque constant ±10% @ rated load | 1.39 Nm / A<br>(rms)        |
| Number of poles                   | 10                          |
| Electrical time constant          | 8.99 ms                     |
| Winding terminal resistance       | 0.701 Ω                     |
| Rotary field terminal inductance  | 6.3 mH                      |

**Customs info**

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

**Mechanical data (setting 48)**

|                         |                        |
|-------------------------|------------------------|
| Max mechanical speed    | 9000 rpm               |
| Mech. time constant     | 0.62 ms                |
| Thermal time constant   | 65 min                 |
| Rotor inertia           | 15.1 kgcm <sup>2</sup> |
| Protection              | IP64                   |
| Color                   | RAL 9005               |
| Cooling                 | Convection             |
| Motor-only mass         | 11.2 kg                |
| Max. axial force 20kh   | 143 N                  |
| Max. radial force 20kh  | 754 N*                 |
| Max. axial force 100kh  | 84 N                   |
| Max. radial force 100kh | 441 N*                 |

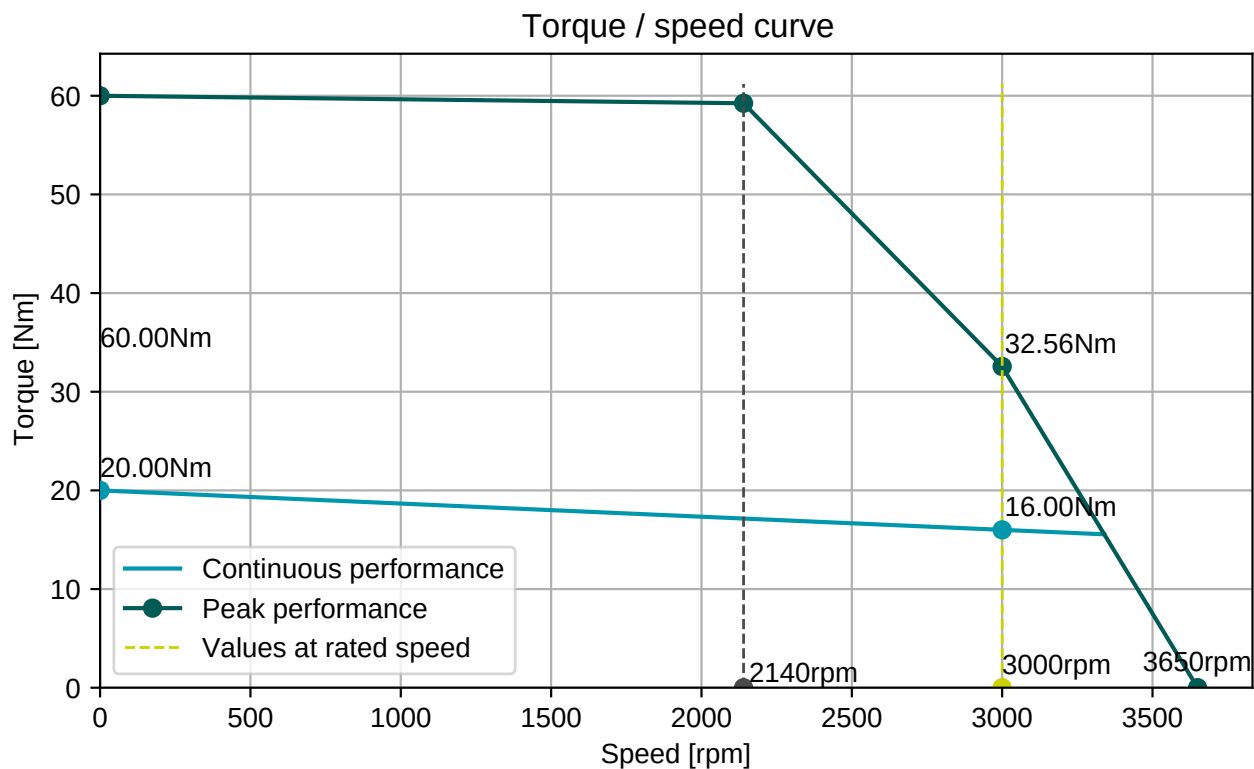
\* Defined for point of action at ½ output shaft length

**Sensors**

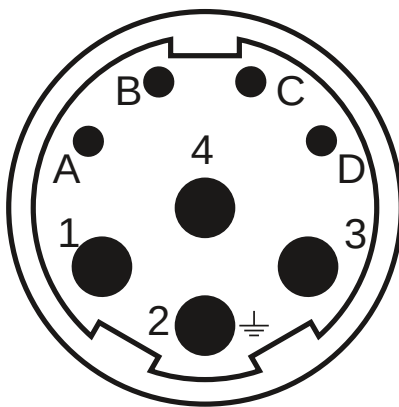
|             |                                              |
|-------------|----------------------------------------------|
| Temperature | PT1000 {PT1000}                              |
| Feedback    | EKM36 (HDSL) multi-turn,<br>18+12 bits, SIL2 |

**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+ |

