

**Engineering data (WIN 1630)**

|                                      |                              |
|--------------------------------------|------------------------------|
| DC bus voltage                       | 560 V DC                     |
| Nominal AC voltage                   | 380 V AC (rms)               |
| Rated voltage                        | 279 V AC (rms)               |
| Rated power                          | 1.1 kW                       |
| Rated speed                          | 6000 rpm                     |
| Rated torque                         | 1.80 Nm                      |
| Rated current                        | 2.79 A (rms)                 |
| Peak torque                          | 8.4 Nm                       |
| Peak current                         | 14.1 A (rms)                 |
| Stall torque                         | 2.8 Nm                       |
| Stall current                        | 3.64 A (rms)                 |
| No load speed                        | 8150 rpm                     |
| EMF constant ±10%                    | 46.5 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 0.769 Nm / A<br>(rms)        |
| Torque constant ±10%<br>@ rated load | 0.645 Nm / A<br>(rms)        |
| Number of poles                      | 10                           |
| Electrical time constant             | 2.53 ms                      |
| Winding terminal<br>resistance       | 3.48 Ω                       |
| Rotary field terminal<br>inductance  | 8.8 mH                       |

**Customs info**

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

**Mechanical data (setting 48)**

|                         |                       |
|-------------------------|-----------------------|
| Max mechanical speed    | 12000 rpm             |
| Mech. time constant     | 0.82 ms               |
| Thermal time constant   | 25 min                |
| Rotor inertia           | 0.8 kgcm <sup>2</sup> |
| Protection              | IP64                  |
| Color                   | RAL 9005              |
| Cooling                 | Convection            |
| Motor-only mass         | 3 kg                  |
| Max. axial force 20kh   | 54 N                  |
| Max. radial force 20kh  | 286 N*                |
| Max. axial force 100kh  | 32 N                  |
| Max. radial force 100kh | 167 N*                |

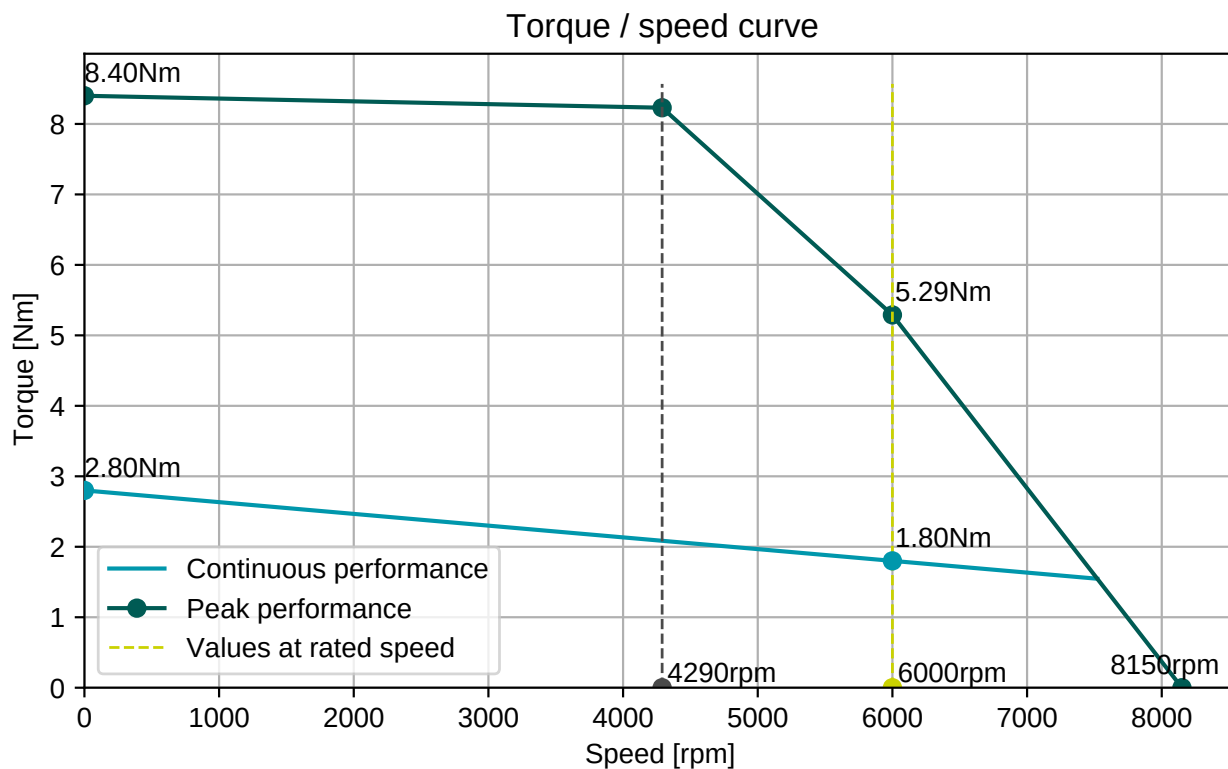
\* Defined for point of action at ½ output shaft length

**Sensors**

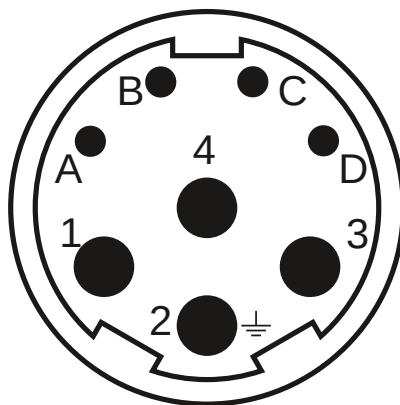
|             |                                   |
|-------------|-----------------------------------|
| Temperature | PT1000 {PT1000}                   |
| Feedback    | EES37 (HDSL) single-turn, 17 bits |

**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)**

|          |          |
|----------|----------|
| <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+ |

