

**Engineering data (WIN 731)**

|                                   |                            |
|-----------------------------------|----------------------------|
| DC bus voltage                    | 560 V DC                   |
| Nominal AC voltage                | 380 V AC (rms)             |
| Rated voltage                     | 296 V AC (rms)             |
| Rated power                       | 4.3 kW                     |
| Rated speed                       | 3000 rpm                   |
| Rated torque                      | 13.80 Nm                   |
| Rated current                     | 9.89 A (rms)               |
| Peak torque                       | 48 Nm                      |
| Peak current                      | 35.6 A (rms)               |
| Stall torque                      | 16 Nm                      |
| Stall current                     | 10.1 A (rms)               |
| No load speed                     | 3950 rpm                   |
| EMF constant ±10%                 | 96 V AC (rms)<br>/ 1000rpm |
| Theoretical torque constant ±10%  | 1.59 Nm / A<br>(rms)       |
| Torque constant ±10% @ rated load | 1.40 Nm / A<br>(rms)       |
| Number of poles                   | 10                         |
| Electrical time constant          | 8.52 ms                    |
| Winding terminal resistance       | 0.88 Ω                     |
| Rotary field terminal inductance  | 7.5 mH                     |

**Customs info**

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

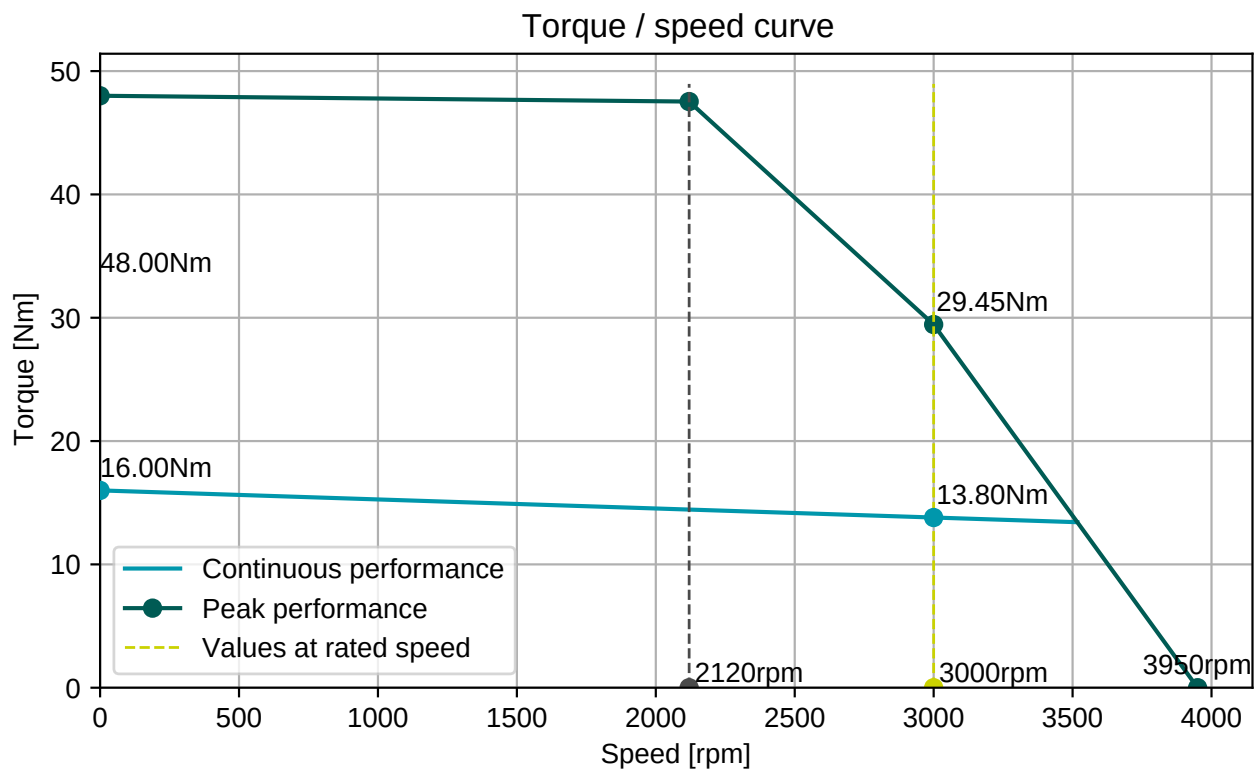
**Mechanical data (setting 48)**

|                         |                        |
|-------------------------|------------------------|
| Max mechanical speed    | 9000 rpm               |
| Mech. time constant     | 0.70 ms                |
| Thermal time constant   | 55 min                 |
| Rotor inertia           | 11.5 kgcm <sup>2</sup> |
| Protection              | IP64                   |
| Color                   | RAL 9005               |
| Cooling                 | Convection             |
| Motor-only mass         | 11.2 kg                |
| Max. axial force 20kh   | 136 N                  |
| Max. radial force 20kh  | 713 N*                 |
| Max. axial force 100kh  | 79 N                   |
| Max. radial force 100kh | 417 N*                 |

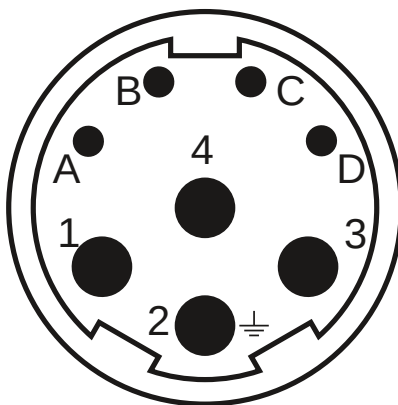
\* Defined for point of action at ½ output shaft length

**Sensors**

|             |                                        |
|-------------|----------------------------------------|
| Temperature | PT1000 {PT1000}                        |
| Feedback    | EDM35 (HDSL) multi-turn,<br>20+12 bits |


**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+ |

