

**Engineering data (WIN 728)**

|                                      |                            |
|--------------------------------------|----------------------------|
| DC bus voltage                       | 320 V DC                   |
| Nominal AC voltage                   | 220 V AC (rms)             |
| Rated voltage                        | 164 V AC (rms)             |
| Rated power                          | 3.3 kW                     |
| Rated speed                          | 3000 rpm                   |
| Rated torque                         | 10.50 Nm                   |
| Rated current                        | 14.73 A (rms)              |
| Peak torque                          | 36 Nm                      |
| Peak current                         | 52.5 A (rms)               |
| Stall torque                         | 12 Nm                      |
| Stall current                        | 14.2 A (rms)               |
| No load speed                        | 4310 rpm                   |
| EMF constant ±10%                    | 51 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 0.84 Nm / A<br>(rms)       |
| Torque constant ±10%<br>@ rated load | 0.71 Nm / A<br>(rms)       |
| Number of poles                      | 10                         |
| Electrical time constant             | 8.10 ms                    |
| Winding terminal<br>resistance       | 0.42 Ω                     |
| Rotary field terminal<br>inductance  | 3.4 mH                     |

**Customs info**

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

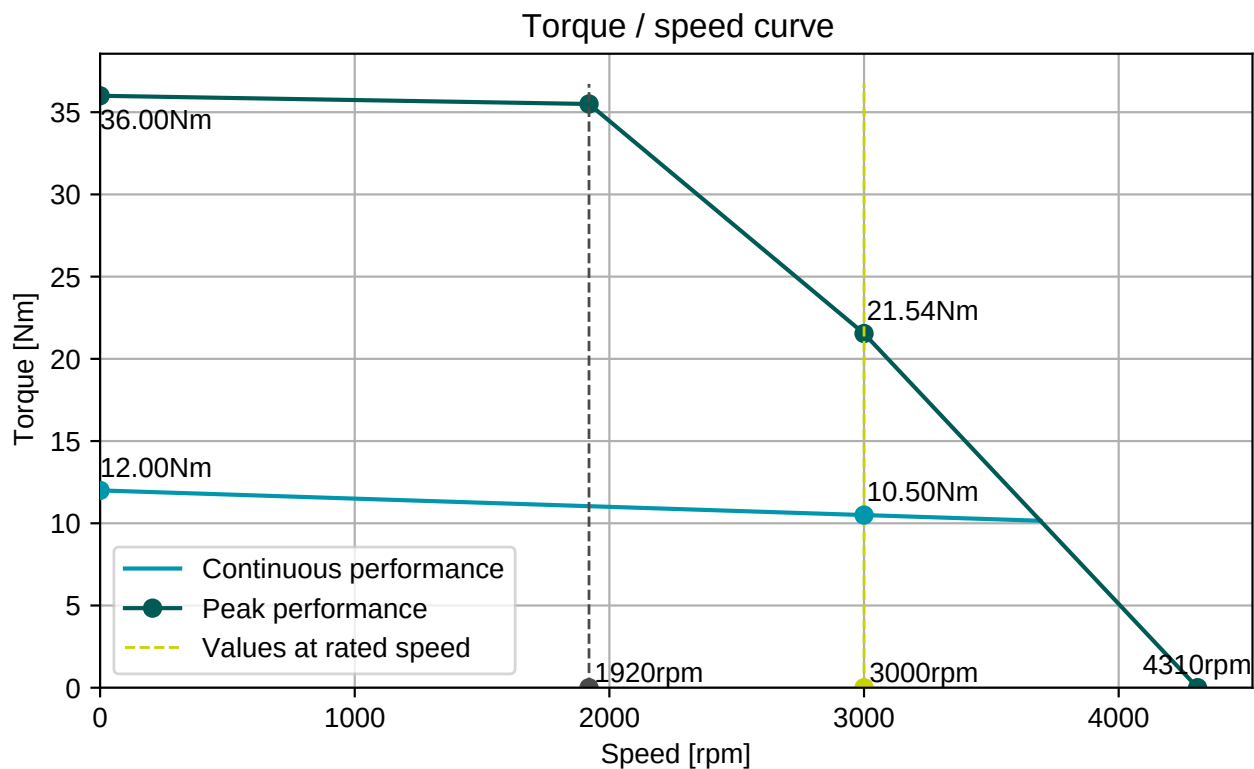
**Mechanical data (setting 48)**

|                         |                       |
|-------------------------|-----------------------|
| Max mechanical speed    | 9000 rpm              |
| Mech. time constant     | 0.81 ms               |
| Thermal time constant   | 45 min                |
| Rotor inertia           | 7.9 kgcm <sup>2</sup> |
| Protection              | IP64                  |
| Color                   | RAL 9005              |
| Cooling                 | Convection            |
| Motor-only mass         | 11.2 kg               |
| Max. axial force 20kh   | 126 N                 |
| Max. radial force 20kh  | 665 N*                |
| Max. axial force 100kh  | 74 N                  |
| Max. radial force 100kh | 389 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+ |

