

**Engineering data (WIN 940)**

|                                      |                             |
|--------------------------------------|-----------------------------|
| DC bus voltage                       | 560 V DC                    |
| Nominal AC voltage                   | 380 V AC (rms)              |
| Rated voltage                        | 308 V AC (rms)              |
| Rated power                          | 7.9 kW                      |
| Rated speed                          | 3000 rpm                    |
| Rated torque                         | 25.00 Nm                    |
| Rated current                        | 17.69 A (rms)               |
| Peak torque                          | 114 Nm                      |
| Peak current                         | 83 A (rms)                  |
| Stall torque                         | 38 Nm                       |
| Stall current                        | 21.5 A (rms)                |
| No load speed                        | 3550 rpm                    |
| EMF constant ±10%                    | 107 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 1.77 Nm / A<br>(rms)        |
| Torque constant ±10%<br>@ rated load | 1.41 Nm / A<br>(rms)        |
| Number of poles                      | 10                          |
| Electrical time constant             | 13.44 ms                    |
| Winding terminal<br>resistance       | 0.32 Ω                      |
| Rotary field terminal<br>inductance  | 4.3 mH                      |

**Customs info**

|         |          |
|---------|----------|
| HS Code | 85015230 |
|---------|----------|

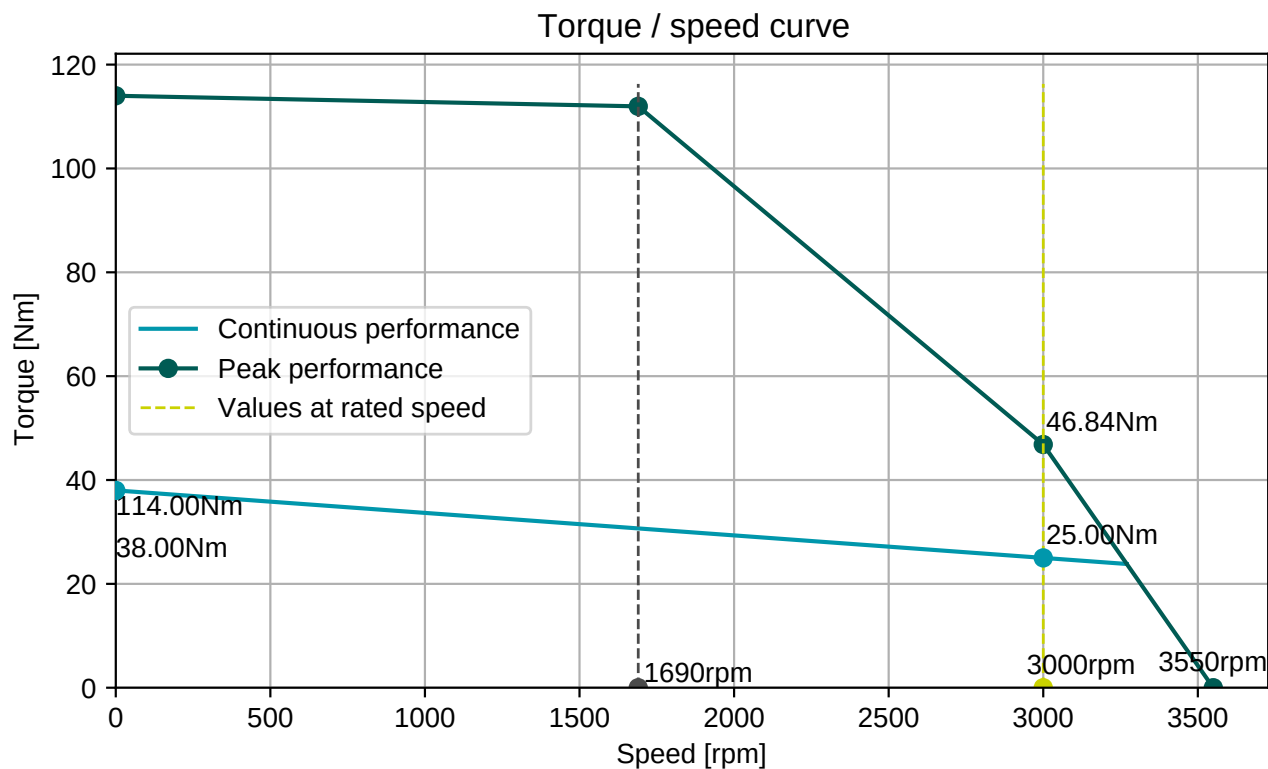
**Mechanical data (setting 48)**

|                         |                        |
|-------------------------|------------------------|
| Max mechanical speed    | 6000 rpm               |
| Mech. time constant     | 0.71 ms                |
| Thermal time constant   | 57 min                 |
| Rotor inertia           | 39.9 kgcm <sup>2</sup> |
| Protection              | IP64                   |
| Color                   | RAL 9005               |
| Cooling                 | Convection             |
| Motor-only mass         | 9.2 kg                 |
| Max. axial force 20kh   | 141 N                  |
| Max. radial force 20kh  | 741 N*                 |
| Max. axial force 100kh  | 82 N                   |
| Max. radial force 100kh | 434 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 |


**BGC110N00001216000**

M23, 8 poles, rotary


**Connector 1 (283)**

|   |          |
|---|----------|
| 1 | U        |
| 4 | V        |
| 3 | W        |
| 2 | PE       |
| A | Brake+   |
| B | Brake-   |
| C | GND/DSL- |
| D | +Us/DSL+ |

