

**Engineering data (WIN 816)**

|                                   |                            |
|-----------------------------------|----------------------------|
| DC bus voltage                    | 560 V DC                   |
| Nominal AC voltage                | 380 V AC (rms)             |
| Rated voltage                     | 266 V AC (rms)             |
| Rated power                       | 2.8 kW                     |
| Rated speed                       | 3000 rpm                   |
| Rated torque                      | 8.80 Nm                    |
| Rated current                     | 7.41 A (rms)               |
| Peak torque                       | 33.9 Nm                    |
| Peak current                      | 27.9 A (rms)               |
| Stall torque                      | 11.3 Nm                    |
| Stall current                     | 7.5 A (rms)                |
| No load speed                     | 4170 rpm                   |
| EMF constant ±10%                 | 91 V AC (rms)<br>/ 1000rpm |
| Theoretical torque constant ±10%  | 1.51 Nm / A<br>(rms)       |
| Torque constant ±10% @ rated load | 1.19 Nm / A<br>(rms)       |
| Number of poles                   | 10                         |
| Electrical time constant          | 6.27 ms                    |
| Winding terminal resistance       | 1.42 Ω                     |
| Rotary field terminal inductance  | 8.9 mH                     |

**Customs info**

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

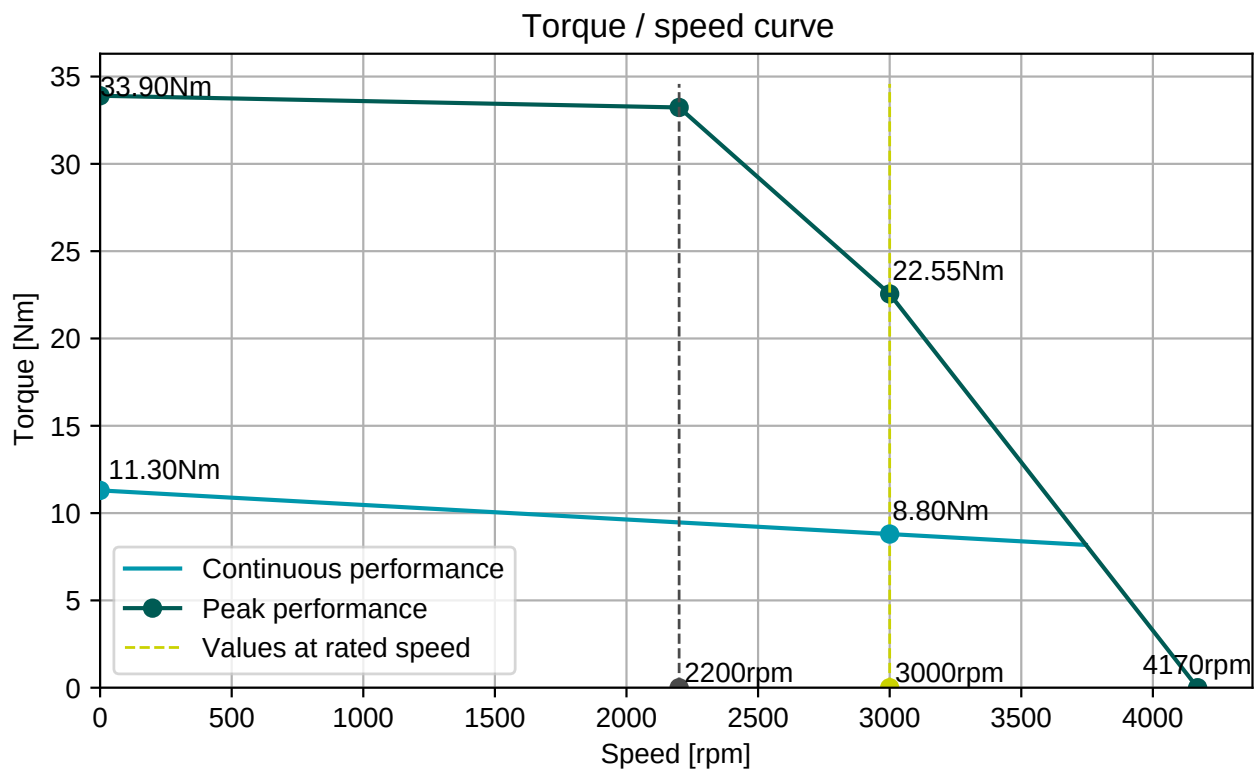
**Mechanical data (setting 16)**

|                         |                       |
|-------------------------|-----------------------|
| Max mechanical speed    | 9000 rpm              |
| Mech. time constant     | 0.62 ms               |
| Thermal time constant   | 40 min                |
| Rotor inertia           | 5.7 kgcm <sup>2</sup> |
| Protection              | IP64                  |
| Color                   | RAL 9005              |
| Cooling                 | Convection            |
| Motor-only mass         | 7.7 kg                |
| Max. axial force 20kh   | 135 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    | SRM50 (Hiperface) multi-turn,<br>1024 sin/cos+12bits |


**BGC110N00001216000**

M23, 8 poles, rotary


**AGC113N00001215000**

M23, 17 poles, rotary


**Connector 1 (9)**

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

**Connector 2 (130)**

|      |            |
|------|------------|
| 1/9  | SIN/REFSIN |
| 3/11 | COS/REFCOS |
| 5/13 | DATA/DATA- |
| 4/2  | Us/GND     |
| 14/7 | Therm      |

