

**Engineering data (WIN 713)**

|                                      |                            |
|--------------------------------------|----------------------------|
| DC bus voltage                       | 560 V DC                   |
| Nominal AC voltage                   | 380 V AC (rms)             |
| Rated voltage                        | 289 V AC (rms)             |
| Rated power                          | 2.4 kW                     |
| Rated speed                          | 3000 rpm                   |
| Rated torque                         | 7.70 Nm                    |
| Rated current                        | 6.03 A (rms)               |
| Peak torque                          | 28.8 Nm                    |
| Peak current                         | 27.4 A (rms)               |
| Stall torque                         | 9.6 Nm                     |
| Stall current                        | 6 A (rms)                  |
| No load speed                        | 3910 rpm                   |
| EMF constant ±10%                    | 97 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 1.6 Nm / A<br>(rms)        |
| Torque constant ±10%<br>@ rated load | 1.3 Nm / A<br>(rms)        |
| Number of poles                      | 10                         |
| Electrical time constant             | 6.01 ms                    |
| Winding terminal<br>resistance       | 1.98 Ω                     |
| Rotary field terminal<br>inductance  | 11.9 mH                    |

**Customs info**

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

**Mechanical data (setting 16)**

|                         |                        |
|-------------------------|------------------------|
| Max mechanical speed    | 9000 rpm               |
| Mech. time constant     | 0.60 ms                |
| Thermal time constant   | 35 min                 |
| Rotor inertia           | 4.49 kgcm <sup>2</sup> |
| Protection              | IP64                   |
| Color                   | RAL 9005               |
| Cooling                 | Convection             |
| Motor-only mass         | 7.2 kg                 |
| Max. axial force 20kh   | 131 N                  |
| Max. radial force 20kh  | 691 N*                 |
| Max. axial force 100kh  | 77 N                   |
| Max. radial force 100kh | 404 N*                 |

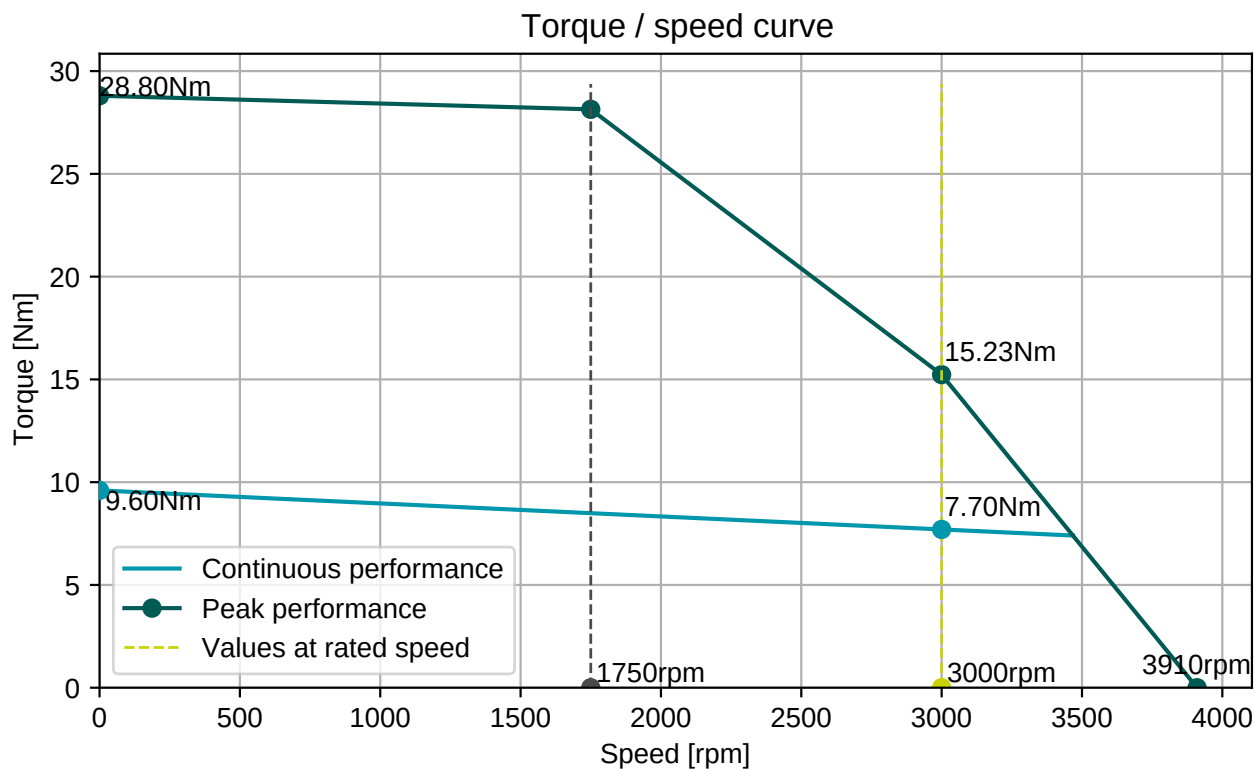
\* Defined for point of action at ½ output shaft length

**Sensors**

|             |                                                       |
|-------------|-------------------------------------------------------|
| Temperature | PT1000 {PT1000}                                       |
| Feedback    | SRS50 (Hiperface) single-turn,<br>1024 sin/cos+12bits |

**Brake**

|                |                        |
|----------------|------------------------|
| Braking torque | 9.00 Nm                |
| Voltage        | 24 V DC                |
| Power @20°C    | 18.0 W                 |
| Current @20°C  | 0.75 A                 |
| Inertia        | 0.60 kgcm <sup>2</sup> |
| Mass           | 0.82 kg                |


**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      |

