

**Engineering data (WIN 1029)**

|                                   |                             |
|-----------------------------------|-----------------------------|
| DC bus voltage                    | 560 V DC                    |
| Nominal AC voltage                | 380 V AC (rms)              |
| Rated voltage                     | 329 V AC (rms)              |
| Rated power                       | 4.6 kW                      |
| Rated speed                       | 2000 rpm                    |
| Rated torque                      | 22.00 Nm                    |
| Rated current                     | 9.52 A (rms)                |
| Peak torque                       | 72 Nm                       |
| Peak current                      | 30.7 A (rms)                |
| Stall torque                      | 24 Nm                       |
| Stall current                     | 9 A (rms)                   |
| No load speed                     | 2340 rpm                    |
| EMF constant ±10%                 | 162 V AC (rms)<br>/ 1000rpm |
| Theoretical torque constant ±10%  | 2.68 Nm / A<br>(rms)        |
| Torque constant ±10% @ rated load | 2.31 Nm / A<br>(rms)        |
| Number of poles                   | 10                          |
| Electrical time constant          | 8.89 ms                     |
| Winding terminal resistance       | 1.35 Ω                      |
| Rotary field terminal inductance  | 12 mH                       |

**Customs info**

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

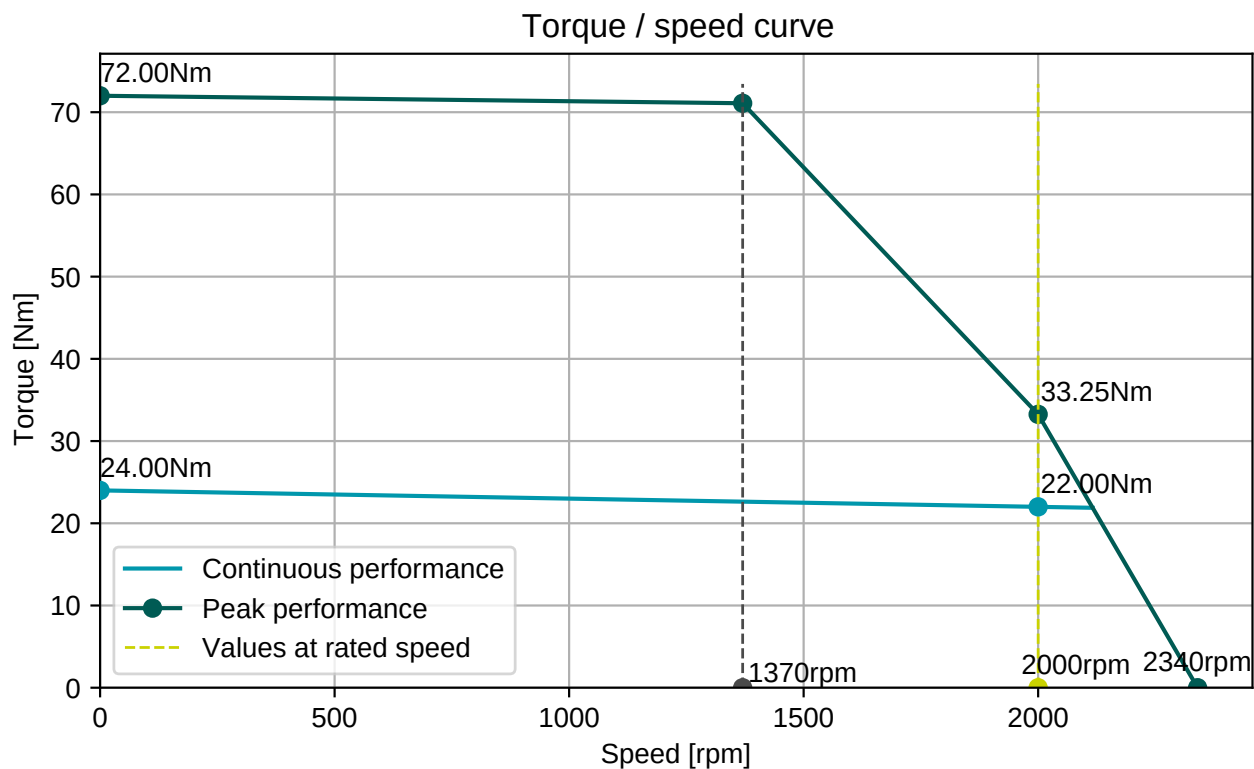
**Mechanical data (setting 5)**

|                         |                        |
|-------------------------|------------------------|
| Max mechanical speed    | 9000 rpm               |
| Mech. time constant     | 0.61 ms                |
| Thermal time constant   | 75 min                 |
| Rotor inertia           | 18.7 kgcm <sup>2</sup> |
| Protection              | IP64                   |
| Color                   | RAL 9005               |
| Cooling                 | Convection             |
| Max. axial force 20kh   | 167 N                  |
| Max. radial force 20kh  | 881 N*                 |
| Max. axial force 100kh  | 98 N                   |
| Max. radial force 100kh | 515 N*                 |

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

**Sensors**

|             |                                                           |
|-------------|-----------------------------------------------------------|
| Temperature | PTC 111-K13 {PTC 111-K13<br>Reissmann}                    |
| Feedback    | 2-pole resolver ( ER5Kd411,<br>TS2620N21E11, RE-15-1-A15) |


**BGC110N00001216000**

M23, 8 poles, rotary


**AGC052N00001215000**

M23, 12 poles, rotary


**Connector 1 (9)**

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

**Connector 2 (10)**

|   |        |
|---|--------|
| 2 | Therm+ |
| 3 | S4     |
| 4 | S3     |
| 5 | R2     |
| 6 | Therm- |
| 7 | S2     |
| 8 | S1     |
| 9 | R1     |

