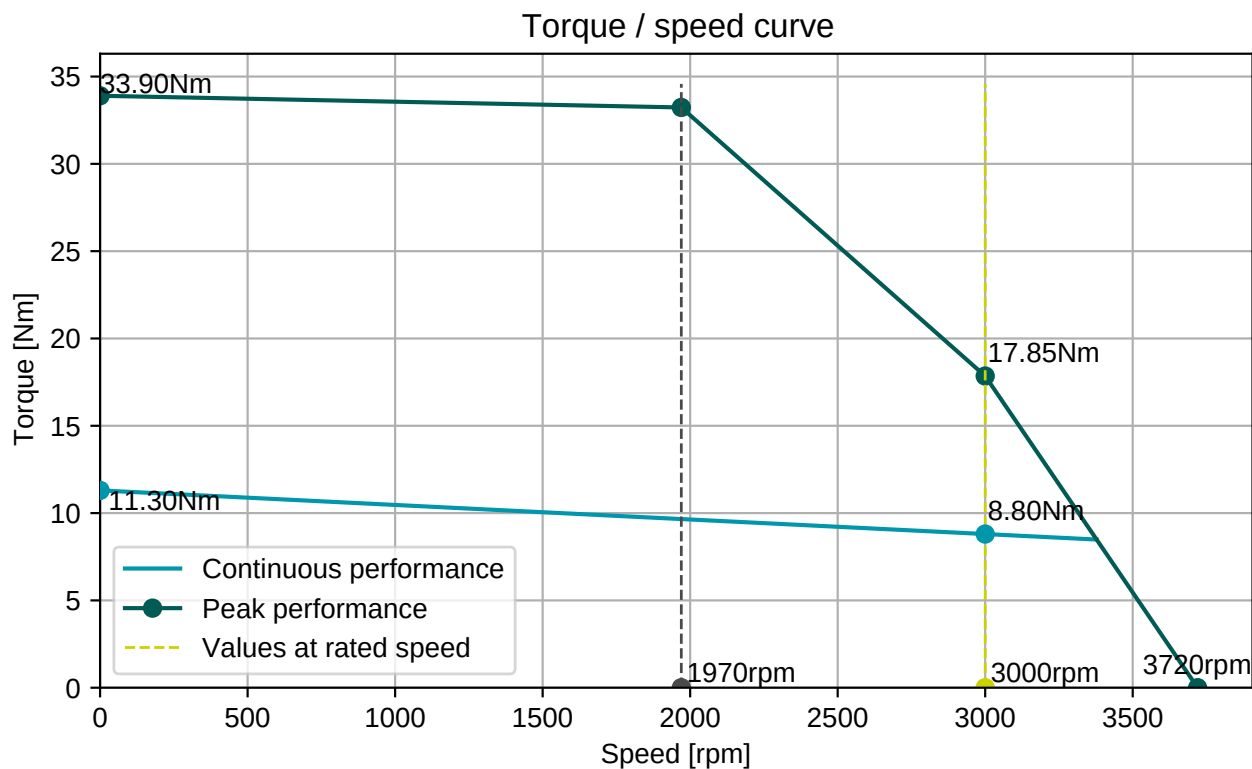


| Engineering data (WIN 829)        |                            | Mechanical data (setting 29)                           |                                                 |
|-----------------------------------|----------------------------|--------------------------------------------------------|-------------------------------------------------|
| DC bus voltage                    | 320 V DC                   | Max mechanical speed                                   | 9000 rpm                                        |
| Nominal AC voltage                | 220 V AC (rms)             | Mech. time constant                                    | 0.61 ms                                         |
| Rated voltage                     | 172 V AC (rms)             | Thermal time constant                                  | 40 min                                          |
| Rated power                       | 2.8 kW                     | Rotor inertia                                          | 5.7 kgcm <sup>2</sup>                           |
| Rated speed                       | 3000 rpm                   | Protection                                             | IP64                                            |
| Rated torque                      | 8.80 Nm                    | Color                                                  | RAL 9005                                        |
| Rated current                     | 11.42 A (rms)              | Cooling                                                | Convection                                      |
| Peak torque                       | 33.9 Nm                    | Motor-only mass                                        | 8.5 kg                                          |
| Peak current                      | 43.1 A (rms)               | Max. axial force 20kh                                  | 135 N                                           |
| Stall torque                      | 11.3 Nm                    | Max. radial force 20kh                                 | 713 N*                                          |
| Stall current                     | 11.6 A (rms)               | Max. axial force 100kh                                 | 79 N                                            |
| No load speed                     | 3720 rpm                   | Max. radial force 100kh                                | 417 N*                                          |
| EMF constant ±10%                 | 59 V AC (rms)<br>/ 1000rpm | * Defined for point of action at ½ output shaft length |                                                 |
| Theoretical torque constant ±10%  | 0.98 Nm / A<br>(rms)       | Sensors                                                |                                                 |
| Torque constant ±10% @ rated load | 0.77 Nm / A<br>(rms)       | Temperature                                            | PT1000 {PT1000}                                 |
| Number of poles                   | 10                         | Feedback                                               | EQI1131 (EnDat 2.2) multi-turn,<br>19 + 12 bits |
| Electrical time constant          | 6.27 ms                    | Brake                                                  |                                                 |
| Winding terminal resistance       | 0.59 Ω                     | Braking torque                                         | 9.00 Nm                                         |
| Rotary field terminal inductance  | 3.7 mH                     | Voltage                                                | 24 V DC                                         |
| <b>Customs info</b>               |                            | Power @20°C                                            | 18.0 W                                          |
| HS Code                           | 85015220                   | Current @20°C                                          | 0.75 A                                          |
|                                   |                            | Inertia                                                | 0.60 kgcm <sup>2</sup>                          |
|                                   |                            | Mass                                                   | 0.82 kg                                         |



**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 (293)

|    |            |
|----|------------|
| 1  | Vcc (+5V)  |
| 2  | GND        |
| 3  | DATA       |
| 4  | DATA-      |
| 5  | CLOCK      |
| 6  | CLOCK-     |
| 7  | Therm+     |
| 8  | Therm-     |
| 9  | Vcc sensor |
| 10 | GND sensor |

