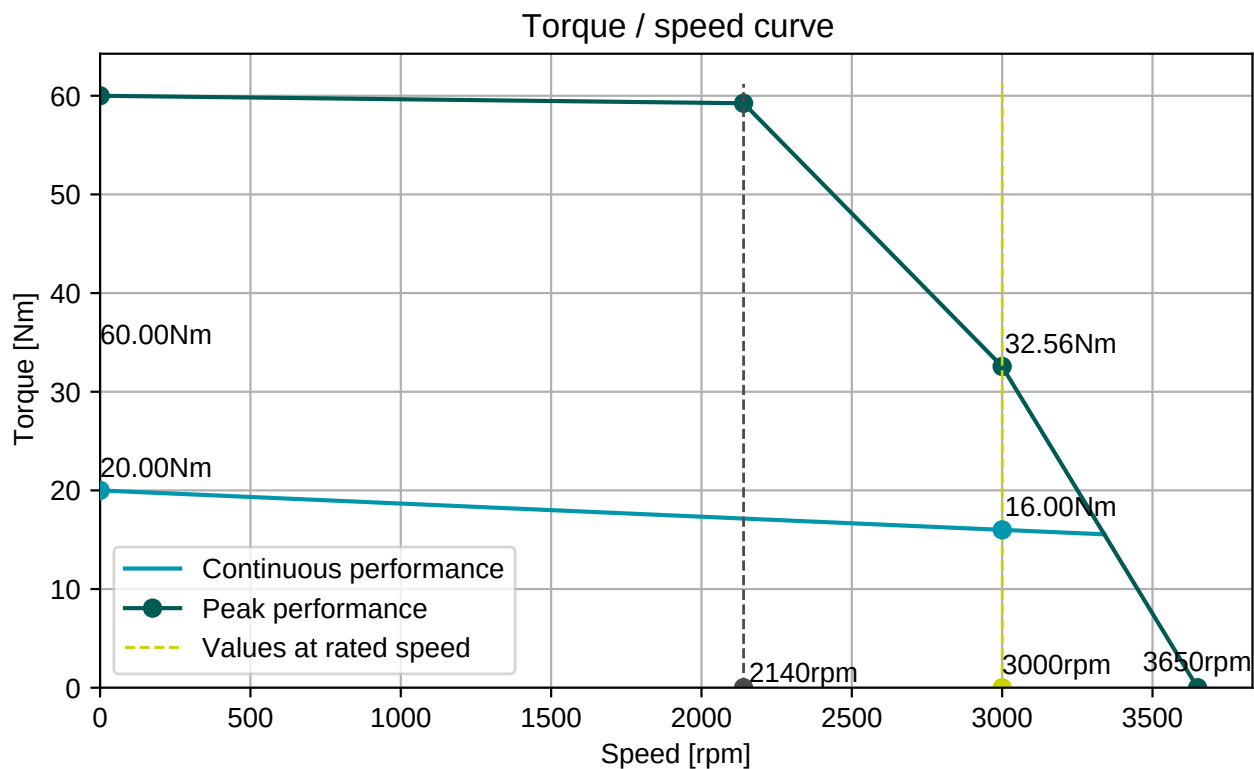


| Engineering data (WIN 733)           |                             | Mechanical data (setting 46)                           |                                               |
|--------------------------------------|-----------------------------|--------------------------------------------------------|-----------------------------------------------|
| DC bus voltage                       | 560 V DC                    | Max mechanical speed                                   | 9000 rpm                                      |
| Nominal AC voltage                   | 380 V AC (rms)              | Mech. time constant                                    | 0.62 ms                                       |
| Rated voltage                        | 297 V AC (rms)              | Thermal time constant                                  | 65 min                                        |
| Rated power                          | 5.0 kW                      | Rotor inertia                                          | 15.1 kgcm <sup>2</sup>                        |
| Rated speed                          | 3000 rpm                    | Protection                                             | IP64                                          |
| Rated torque                         | 16.00 Nm                    | Color                                                  | RAL 9005                                      |
| Rated current                        | 11.5 A (rms)                | Cooling                                                | Convection                                    |
| Peak torque                          | 60 Nm                       | Motor-only mass                                        | 12.6 kg                                       |
| Peak current                         | 39.8 A (rms)                | Max. axial force 20kh                                  | 143 N                                         |
| Stall torque                         | 20 Nm                       | Max. radial force 20kh                                 | 754 N*                                        |
| Stall current                        | 11.6 A (rms)                | Max. axial force 100kh                                 | 84 N                                          |
| No load speed                        | 3650 rpm                    | Max. radial force 100kh                                | 441 N*                                        |
| EMF constant ±10%                    | 104 V AC (rms)<br>/ 1000rpm | * Defined for point of action at ½ output shaft length |                                               |
| Theoretical torque constant ±10%     | 1.72 Nm / A<br>(rms)        |                                                        |                                               |
| Torque constant ±10%<br>@ rated load | 1.39 Nm / A<br>(rms)        |                                                        |                                               |
| Number of poles                      | 10                          | Sensors                                                |                                               |
| Electrical time constant             | 8.99 ms                     | Temperature                                            | PT1000 {PT1000}                               |
| Winding terminal resistance          | 0.701 Ω                     | Feedback                                               | SKS36 (Hiperface) single-turn,<br>128 sin/cos |
| Rotary field terminal inductance     | 6.3 mH                      | Brake                                                  |                                               |
| Customs info                         |                             | Braking torque                                         | 18.00 Nm                                      |
| HS Code                              | 85015220                    | Voltage                                                | 24 V DC                                       |
|                                      |                             | Power @20°C                                            | 24.0 W                                        |
|                                      |                             | Current @20°C                                          | 1.00 A                                        |
|                                      |                             | Inertia                                                | 2.00 kgcm <sup>2</sup>                        |
|                                      |                             | Mass                                                   | 1.80 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      |

