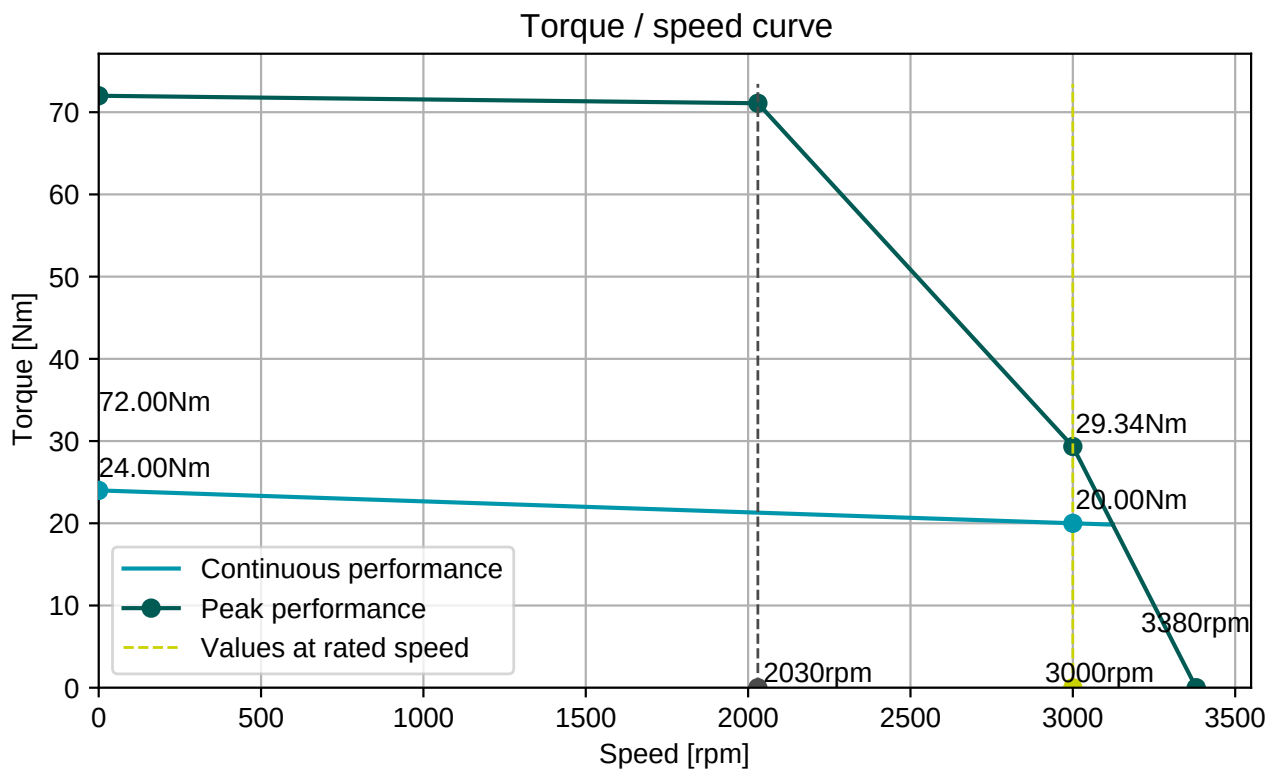


| Engineering data (WIN 977)           |                            | Mechanical data (setting 46)                                                                                                       |                        |
|--------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| DC bus voltage                       | 320 V DC                   | Max mechanical speed                                                                                                               | 9000 rpm               |
| Nominal AC voltage                   | 220 V AC (rms)             | Mech. time constant                                                                                                                | 0.62 ms                |
| Rated voltage                        | 185 V AC (rms)             | Thermal time constant                                                                                                              | 75 min                 |
| Rated power                          | 6.3 kW                     | Rotor inertia                                                                                                                      | 18.7 kgcm <sup>2</sup> |
| Rated speed                          | 3000 rpm                   | Protection                                                                                                                         | IP64                   |
| Rated torque                         | 20.00 Nm                   | Color                                                                                                                              | RAL 9005               |
| Rated current                        | 22.97 A (rms)              | Cooling                                                                                                                            | Convection             |
| Peak torque                          | 72 Nm                      | Motor-only mass                                                                                                                    | 13.5 kg                |
| Peak current                         | 76.6 A (rms)               | Max. axial force 20kh                                                                                                              | 146 N                  |
| Stall torque                         | 24 Nm                      | Max. radial force 20kh                                                                                                             | 770 N*                 |
| Stall current                        | 22.3 A (rms)               | Max. axial force 100kh                                                                                                             | 86 N                   |
| No load speed                        | 3380 rpm                   | Max. radial force 100kh                                                                                                            | 450 N*                 |
| EMF constant ±10%                    | 65 V AC (rms)<br>/ 1000rpm | * Defined for point of action at ½ output shaft length                                                                             |                        |
| Theoretical torque constant ±10%     | 1.08 Nm / A<br>(rms)       |                                                                                                                                    |                        |
| Torque constant ±10%<br>@ rated load | 0.87 Nm / A<br>(rms)       | <div>Sensors</div> <div>Temperature PT1000 {PT1000}</div> <div>Feedback SKM36 (Hiperface) multi-turn,<br/>128 sin/cos+12bits</div> |                        |
| Number of poles                      | 10                         |                                                                                                                                    |                        |
| Electrical time constant             | 9.09 ms                    |                                                                                                                                    |                        |
| Winding terminal resistance          | 0.22 Ω                     |                                                                                                                                    |                        |
| Rotary field terminal inductance     | 2 mH                       |                                                                                                                                    |                        |

| Customs info |          |
|--------------|----------|
| HS Code      | 85015220 |


**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      |

