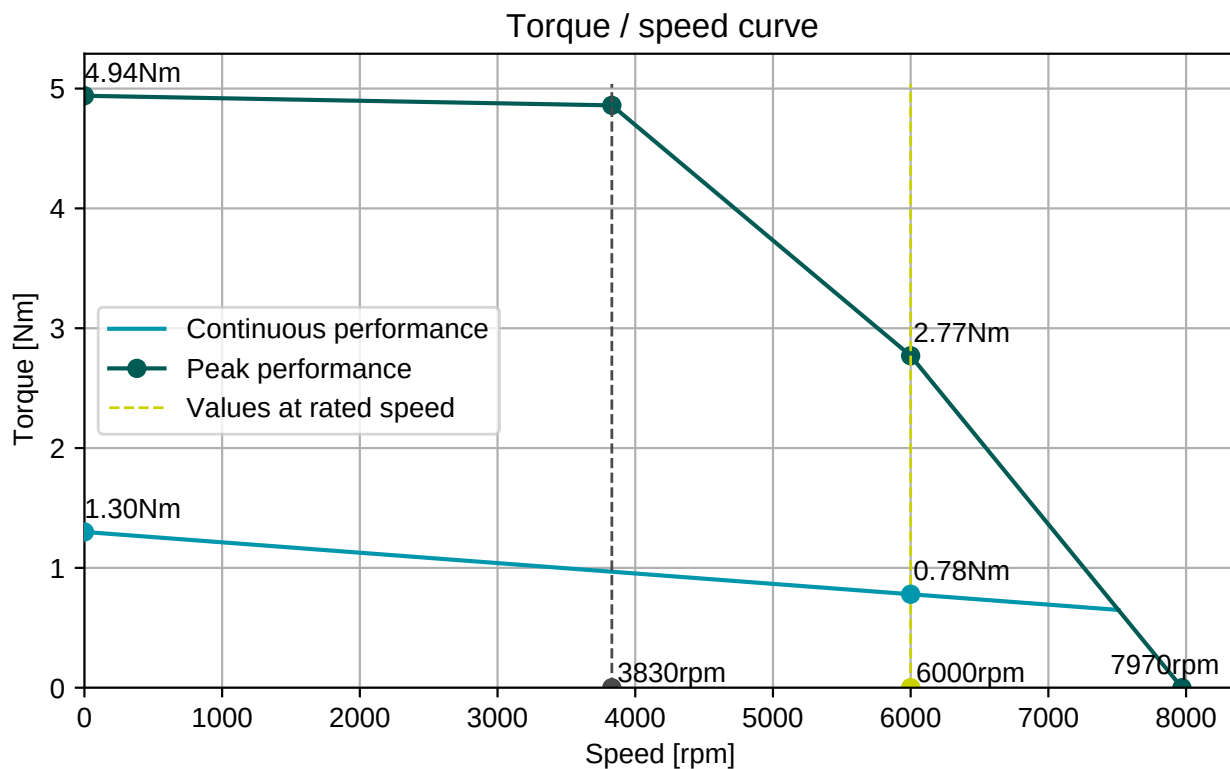


| Engineering data (WIN 1439)          |                              | Mechanical data (setting 5)                                                                                         |                       |
|--------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------|
| DC bus voltage                       | 320 V DC                     | Max mechanical speed                                                                                                | 12000 rpm             |
| Nominal AC voltage                   | 220 V AC (rms)               | Mech. time constant                                                                                                 | 1.67 ms               |
| Rated voltage                        | 165 V AC (rms)               | Thermal time constant                                                                                               | 24 min                |
| Rated power                          | 490 W                        | Rotor inertia                                                                                                       | 0.5 kgcm <sup>2</sup> |
| Rated speed                          | 6000 rpm                     | Protection                                                                                                          | IP64                  |
| Rated torque                         | 0.78 Nm                      | Color                                                                                                               | RAL 9005              |
| Rated current                        | 2.06 A (rms)                 | Cooling                                                                                                             | Convection            |
| Peak torque                          | 4.94 Nm                      | Motor-only mass                                                                                                     | 1.6 kg                |
| Peak current                         | 13.5 A (rms)                 | Max. axial force 20kh                                                                                               | 43 N                  |
| Stall torque                         | 1.3 Nm                       | Max. radial force 20kh                                                                                              | 225 N*                |
| Stall current                        | 2.86 A (rms)                 | Max. axial force 100kh                                                                                              | 25 N                  |
| No load speed                        | 7970 rpm                     | Max. radial force 100kh                                                                                             | 131 N*                |
| EMF constant ±10%                    | 27.5 V AC (rms)<br>/ 1000rpm | * Defined for point of action at ½ output shaft length                                                              |                       |
| Theoretical torque constant ±10%     | 0.455 Nm / A<br>(rms)        |                                                                                                                     |                       |
| Torque constant ±10%<br>@ rated load | 0.379 Nm / A<br>(rms)        | <b>Sensors</b><br>Temperature PT1000 {PT1000}<br>Feedback 2-pole resolver ( ER5Kd411,<br>TS2620N21E11, RE-15-1-A15) |                       |
| Number of poles                      | 10                           |                                                                                                                     |                       |
| Electrical time constant             | 1.34 ms                      |                                                                                                                     |                       |
| Winding terminal resistance          | 3.99 Ω                       |                                                                                                                     |                       |
| Rotary field terminal inductance     | 5.35 mH                      |                                                                                                                     |                       |
| Customs info                         |                              |                                                                                                                     |                       |
| HS Code                              | 85015100                     |                                                                                                                     |                       |


**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     |

