

**Engineering data (WIN 794)**

|                                      |                             |
|--------------------------------------|-----------------------------|
| DC bus voltage                       | 560 V DC                    |
| Nominal AC voltage                   | 380 V AC (rms)              |
| Rated voltage                        | 297 V AC (rms)              |
| Rated power                          | 3.7 kW                      |
| Rated speed                          | 2000 rpm                    |
| Rated torque                         | 17.50 Nm                    |
| Rated current                        | 8.42 A (rms)                |
| Peak torque                          | 60 Nm                       |
| Peak current                         | 28.3 A (rms)                |
| Stall torque                         | 20 Nm                       |
| Stall current                        | 8.3 A (rms)                 |
| No load speed                        | 2600 rpm                    |
| EMF constant ±10%                    | 146 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 2.41 Nm / A<br>(rms)        |
| Torque constant ±10%<br>@ rated load | 2.08 Nm / A<br>(rms)        |
| Number of poles                      | 10                          |
| Electrical time constant             | 8.92 ms                     |
| Winding terminal<br>resistance       | 1.39 Ω                      |
| Rotary field terminal<br>inductance  | 12.4 mH                     |

**Customs info**

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

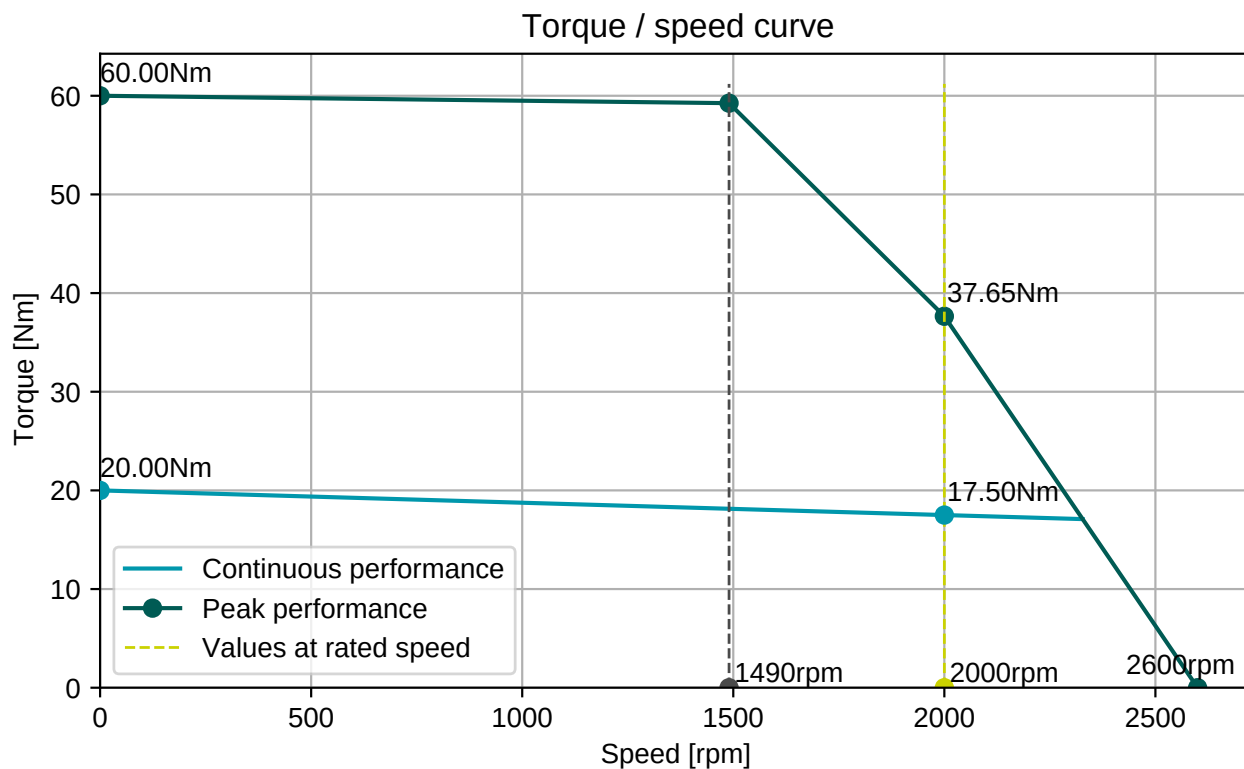
**Mechanical data (setting 5)**

|                         |                        |
|-------------------------|------------------------|
| Max mechanical speed    | 9000 rpm               |
| Mech. time constant     | 0.62 ms                |
| Thermal time constant   | 65 min                 |
| Rotor inertia           | 15.1 kgcm <sup>2</sup> |
| Protection              | IP64                   |
| Color                   | RAL 9005               |
| Cooling                 | Convection             |
| Max. axial force 20kh   | 162 N                  |
| Max. radial force 20kh  | 854 N*                 |
| Max. axial force 100kh  | 95 N                   |
| Max. radial force 100kh | 500 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     |

