

**Engineering data (WIN 778)**

|                                      |                             |
|--------------------------------------|-----------------------------|
| DC bus voltage                       | 36 V DC                     |
| Nominal AC voltage                   | 23 V AC (rms)               |
| Rated voltage                        | 16 V AC (rms)               |
| Rated power                          | 181 W                       |
| Rated speed                          | 1500 rpm                    |
| Rated torque                         | 1.15 Nm                     |
| Rated current                        | 11.25 A (rms)               |
| Peak torque                          | 3.45 Nm                     |
| Peak current                         | 44.2 A (rms)                |
| Stall torque                         | 1.15 Nm                     |
| Stall current                        | 10 A (rms)                  |
| No load speed                        | 3270 rpm                    |
| EMF constant ±10%                    | 6.9 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 0.11 Nm / A<br>(rms)        |
| Torque constant ±10%<br>@ rated load | 0.10 Nm / A<br>(rms)        |
| Number of poles                      | 10                          |
| Electrical time constant             | 2.21 ms                     |
| Winding terminal<br>resistance       | 0.34 Ω                      |
| Rotary field terminal<br>inductance  | 0.75 mH                     |

**Customs info**

|         |          |
|---------|----------|
| HS Code | 85015100 |
|---------|----------|

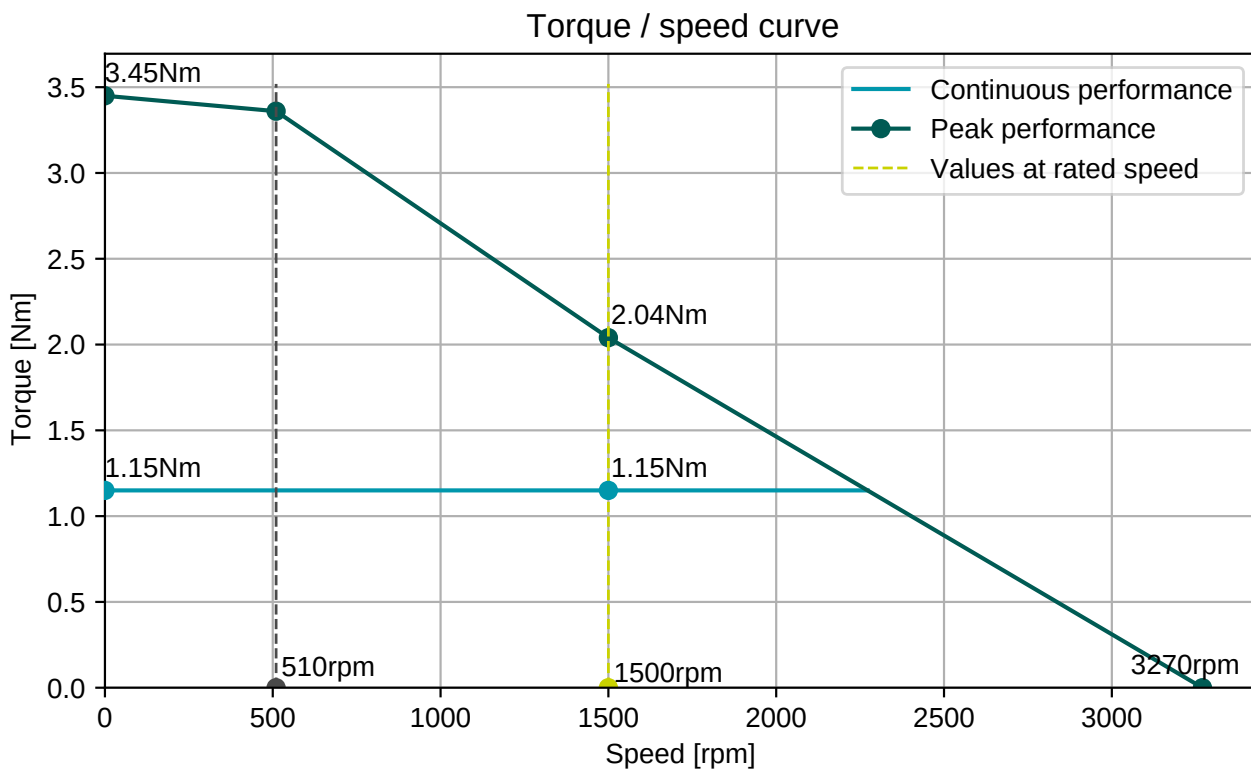
**Mechanical data (setting 29)**

|                         |                        |
|-------------------------|------------------------|
| Max mechanical speed    | 12000 rpm              |
| Mech. time constant     | 1.40 ms                |
| Thermal time constant   | 21 min                 |
| Rotor inertia           | 0.31 kgcm <sup>2</sup> |
| Protection              | IP64                   |
| Color                   | RAL 9005               |
| Cooling                 | Convection             |
| Motor-only mass         | 1.5 kg                 |
| Max. axial force 20kh   | 68 N                   |
| Max. radial force 20kh  | 357 N*                 |
| Max. axial force 100kh  | 40 N                   |
| Max. radial force 100kh | 209 N*                 |

\* Defined for point of action at ½ output shaft length

**Sensors**

|             |                                                 |
|-------------|-------------------------------------------------|
| Temperature | PT1000 {PT1000}                                 |
| Feedback    | EQI1131 (EnDat 2.2) multi-turn,<br>19 + 12 bits |



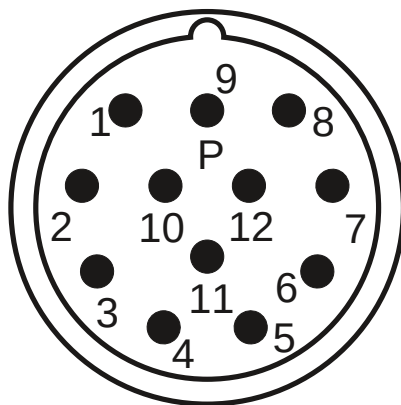
**BGC110N00001216000**

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 |

