

### Engineering data (WIN -100090)

|                                      |                            |
|--------------------------------------|----------------------------|
| DC bus voltage                       | 48 V DC                    |
| Nominal AC voltage                   | 33 V AC (rms)              |
| Rated voltage                        | 25 V AC (rms)              |
| Rated power                          | 251 W                      |
| Rated speed                          | 1500 rpm                   |
| Rated torque                         | 1.60 Nm                    |
| Rated current                        | 8.2 A (rms)                |
| Peak torque                          | 6.65 Nm                    |
| Peak current                         | 36.03 A (rms)              |
| Stall torque                         | 1.75 Nm                    |
| Stall current                        | 8.14 A (rms)               |
| No load speed                        | 2510 rpm                   |
| EMF constant ±10%                    | 13 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 0.22 Nm / A<br>(rms)       |
| Torque constant ±10%<br>@ rated load | 0.20 Nm / A<br>(rms)       |
| Number of poles                      | 10                         |
| Electrical time constant             | 1.42 ms                    |
| Winding terminal<br>resistance       | 0.549 Ω                    |
| Rotary field terminal<br>inductance  | 0.78 mH                    |

### Customs info

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

### Mechanical data (setting 29)

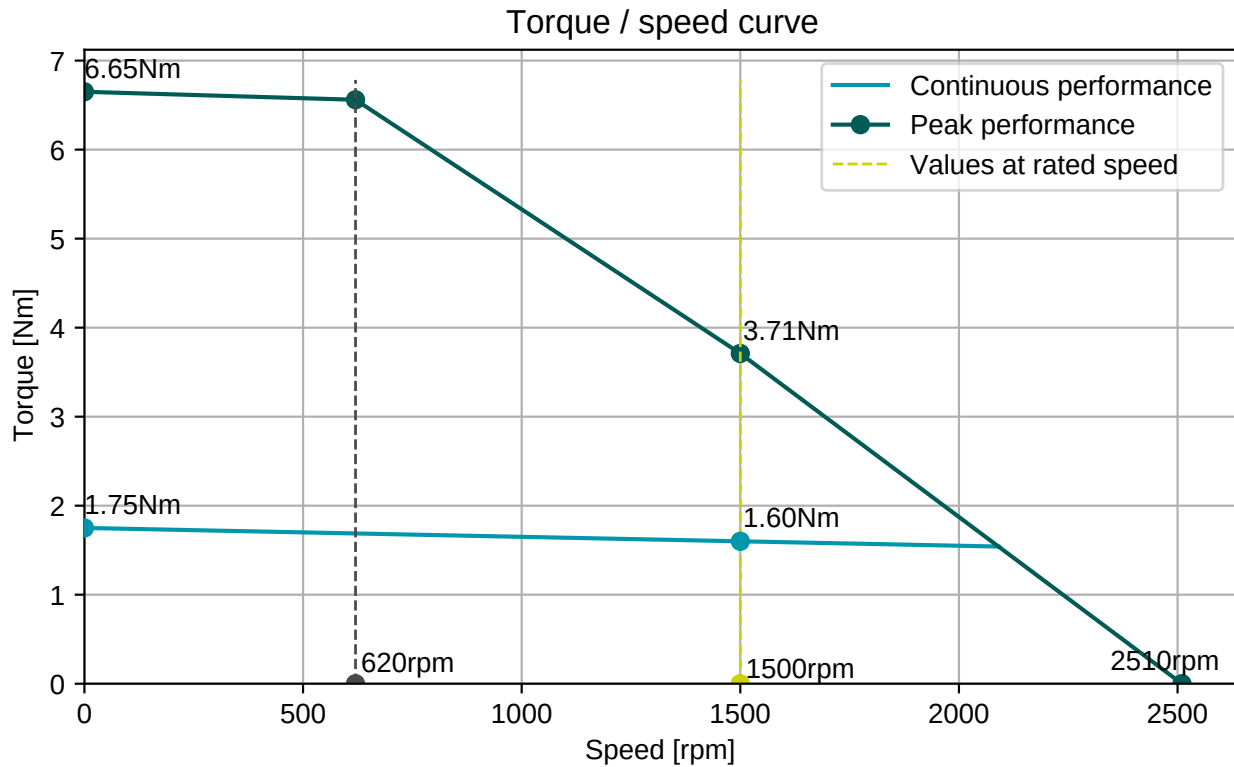
|                       |                        |
|-----------------------|------------------------|
| Max mechanical speed  | 12000 rpm              |
| Mech. time constant   | 1.40 ms                |
| Thermal time constant | 28 min                 |
| Rotor inertia         | 0.68 kgcm <sup>2</sup> |
| Protection            | IP64                   |
| Color                 | RAL 9005               |
| Cooling               | Convection             |
| Motor-only mass       | 2.2 kg                 |

### Sensors

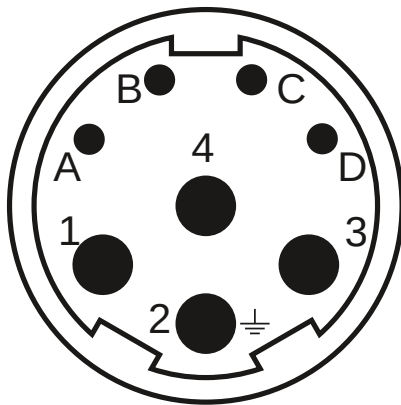
|             |                                                 |
|-------------|-------------------------------------------------|
| Temperature | PT1000 {PT1000}                                 |
| Feedback    | EQI1131 (EnDat 2.2) multi-turn,<br>19 + 12 bits |

### Brake

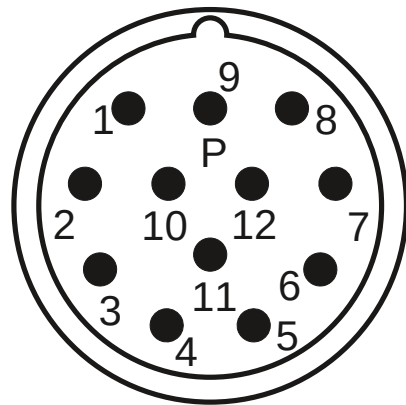
|                |                        |
|----------------|------------------------|
| Braking torque | 4.50 Nm                |
| Voltage        | 24 V DC                |
| Power @20°C    | 12.0 W                 |
| Current @20°C  | 0.50 A                 |
| Inertia        | 0.20 kgcm <sup>2</sup> |
| Mass           | 0.47 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 (293)**

|    |            |
|----|------------|
| 1  | Vcc (+5V)  |
| 2  | GND        |
| 3  | DATA       |
| 4  | DATA-      |
| 5  | CLOCK      |
| 6  | CLOCK-     |
| 7  | Therm+     |
| 8  | Therm-     |
| 9  | Vcc sensor |
| 10 | GND sensor |

