

**Engineering data (WIN 1165)**

|                                      |                             |
|--------------------------------------|-----------------------------|
| DC bus voltage                       | 560 V DC                    |
| Nominal AC voltage                   | 380 V AC (rms)              |
| Rated voltage                        | 349 V AC (rms)              |
| Rated power                          | 8.6 kW                      |
| Rated speed                          | 3000 rpm                    |
| Rated torque                         | 27.30 Nm                    |
| Rated current                        | 16.18 A (rms)               |
| Peak torque                          | 180 Nm                      |
| Peak current                         | 101.8 A (rms)               |
| Stall torque                         | 60 Nm                       |
| Stall current                        | 30 A (rms)                  |
| No load speed                        | 3140 rpm                    |
| EMF constant ±10%                    | 125 V AC (rms)<br>/ 1000rpm |
| Theoretical torque<br>constant ±10%  | 2.067 Nm / A<br>(rms)       |
| Torque constant ±10%<br>@ rated load | 1.687 Nm / A<br>(rms)       |
| Number of poles                      | 10                          |
| Electrical time constant             | 18.75 ms                    |
| Winding terminal<br>resistance       | 0.16 Ω                      |
| Rotary field terminal<br>inductance  | 3 mH                        |

**Customs info**

|         |          |
|---------|----------|
| HS Code | 85015230 |
|---------|----------|

**Mechanical data (setting 16)**

|                         |                       |
|-------------------------|-----------------------|
| Max mechanical speed    | 6000 rpm              |
| Mech. time constant     | 0.69 ms               |
| Thermal time constant   | 108 min               |
| Rotor inertia           | 107 kgcm <sup>2</sup> |
| Protection              | IP64                  |
| Color                   | RAL 9005              |
| Cooling                 | Convection            |
| Motor-only mass         | 33.5 kg               |
| Max. axial force 20kh   | 274 N                 |
| Max. radial force 20kh  | 1443 N*               |
| Max. axial force 100kh  | 160 N                 |
| Max. radial force 100kh | 844 N*                |

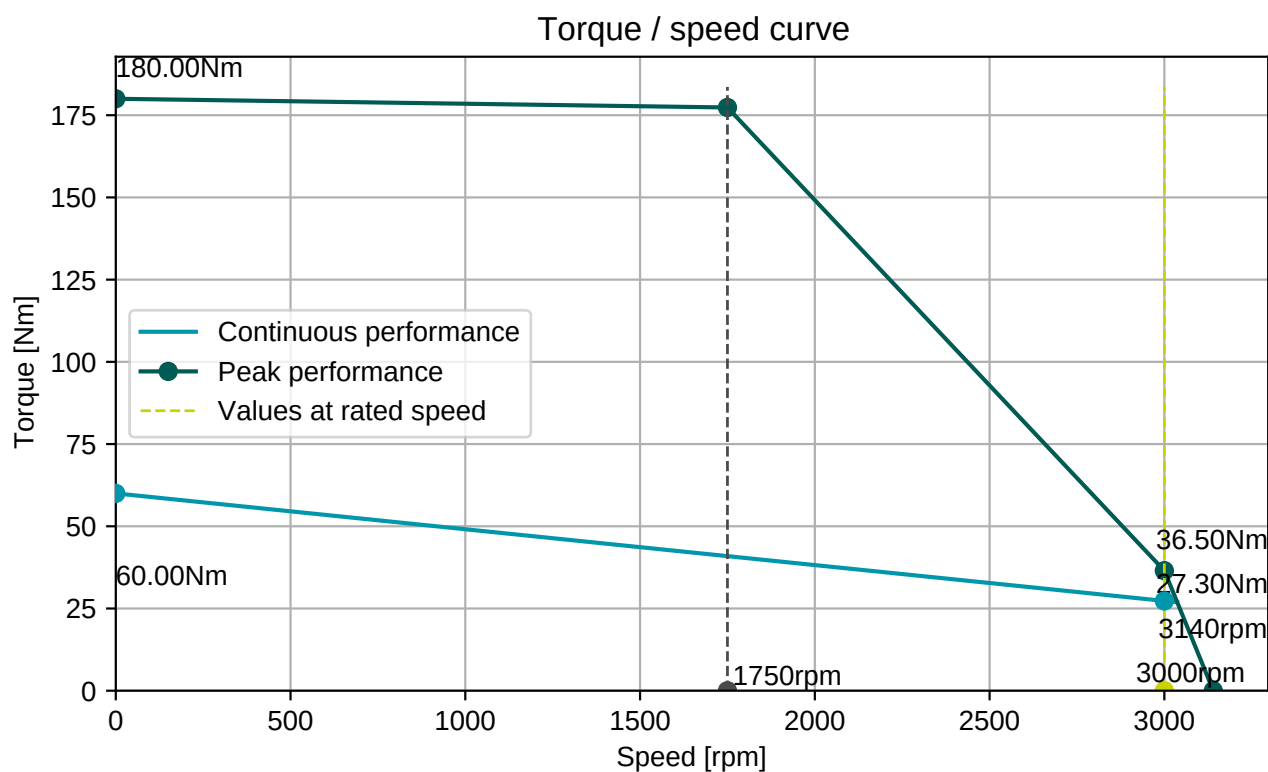
\* Defined for point of action at ½ output shaft length

**Sensors**

|             |                                                      |
|-------------|------------------------------------------------------|
| Temperature | PT1000 {PT1000}                                      |
| Feedback    | SRM50 (Hiperface) multi-turn,<br>1024 sin/cos+12bits |

**Brake**

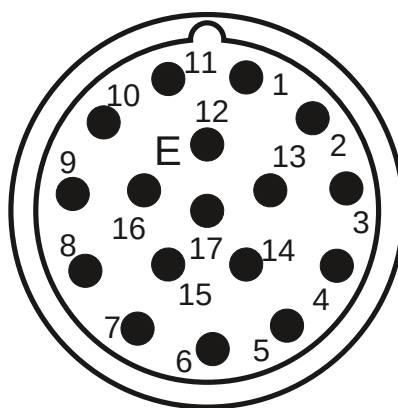
|                |                        |
|----------------|------------------------|
| Braking torque | 36.00 Nm               |
| Voltage        | 24 V DC                |
| Power @20°C    | 26.0 W                 |
| Current @20°C  | 1.08 A                 |
| Inertia        | 6.20 kgcm <sup>2</sup> |
| Mass           | 2.85 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 (130)**

|      |            |
|------|------------|
| 1/9  | SIN/REFSIN |
| 3/11 | COS/REFCOS |
| 5/13 | DATA/DATA- |
| 4/2  | Us/GND     |
| 14/7 | Therm      |

