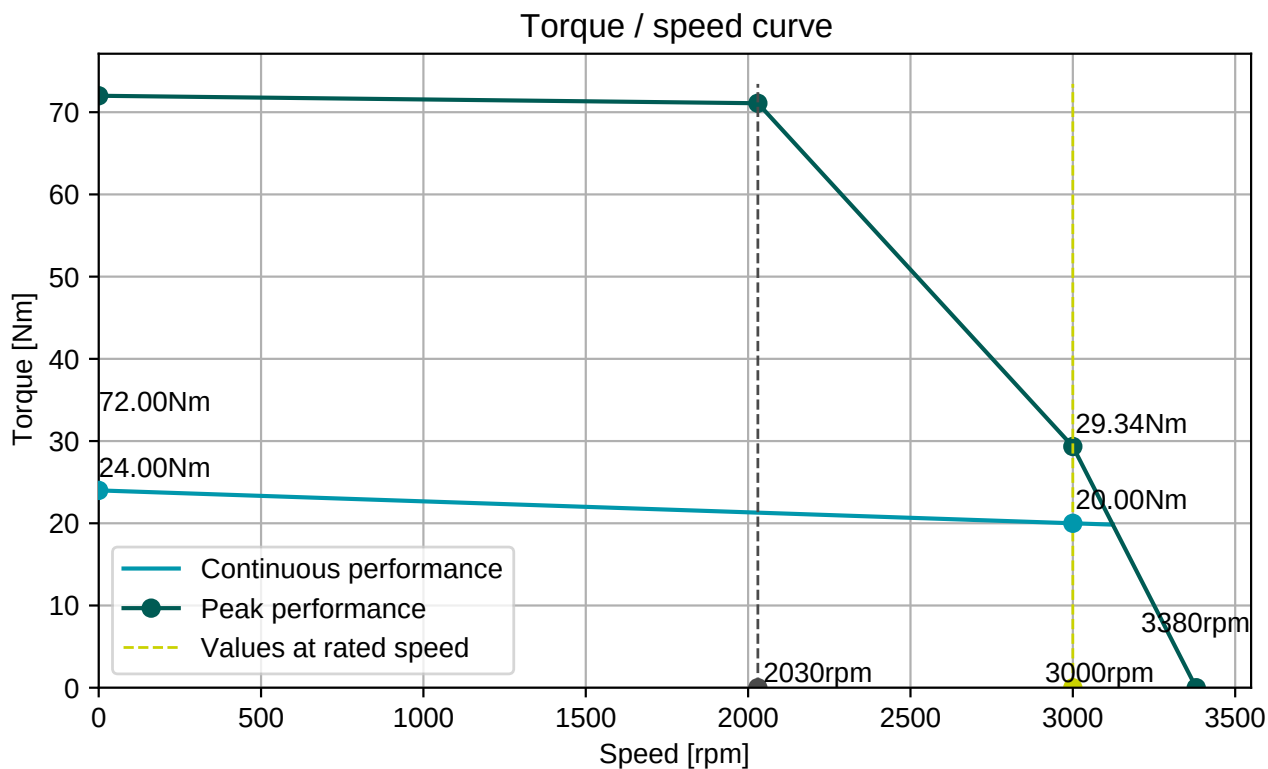


| Engineering data (WIN 977)           |                                   | Mechanical data (setting 48)                                                                                                                                                  |            |         |  |             |                 |          |                                   |
|--------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|--|-------------|-----------------|----------|-----------------------------------|
| DC bus voltage                       | 320 V DC                          | Max mechanical speed                                                                                                                                                          | 9000 rpm   |         |  |             |                 |          |                                   |
| Nominal AC voltage                   | 220 V AC (rms)                    | Mech. time constant                                                                                                                                                           | 0.62 ms    |         |  |             |                 |          |                                   |
| Rated voltage                        | 185 V AC (rms)                    | Thermal time constant                                                                                                                                                         | 75 min     |         |  |             |                 |          |                                   |
| Rated power                          | 6.3 kW                            | Rotor inertia                                                                                                                                                                 | 18.7 kgcm² |         |  |             |                 |          |                                   |
| Rated speed                          | 3000 rpm                          | Protection                                                                                                                                                                    | IP64       |         |  |             |                 |          |                                   |
| Rated torque                         | 20.00 Nm                          | Color                                                                                                                                                                         | RAL 9005   |         |  |             |                 |          |                                   |
| Rated current                        | 22.97 A (rms)                     | Cooling                                                                                                                                                                       | Convection |         |  |             |                 |          |                                   |
| Peak torque                          | 72 Nm                             | Motor-only mass                                                                                                                                                               | 11.2 kg    |         |  |             |                 |          |                                   |
| Peak current                         | 76.6 A (rms)                      | Max. axial force 20kh                                                                                                                                                         | 146 N      |         |  |             |                 |          |                                   |
| Stall torque                         | 24 Nm                             | Max. radial force 20kh                                                                                                                                                        | 770 N*     |         |  |             |                 |          |                                   |
| Stall current                        | 22.3 A (rms)                      | Max. axial force 100kh                                                                                                                                                        | 86 N       |         |  |             |                 |          |                                   |
| No load speed                        | 3380 rpm                          | Max. radial force 100kh                                                                                                                                                       | 450 N*     |         |  |             |                 |          |                                   |
| EMF constant ±10%                    | 65 V AC (rms)<br>/ 1000rpm        | * Defined for point of action at ½ output shaft length                                                                                                                        |            |         |  |             |                 |          |                                   |
| Theoretical torque constant ±10%     | 1.08 Nm / A (rms)                 |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |
| Torque constant ±10%<br>@ rated load | 0.87 Nm / A (rms)                 | <table><tr><th colspan="2">Sensors</th></tr><tr><td>Temperature</td><td>PT1000 {PT1000}</td></tr><tr><td>Feedback</td><td>EKS36 (HDSL) single-turn, 17 bits</td></tr></table> |            | Sensors |  | Temperature | PT1000 {PT1000} | Feedback | EKS36 (HDSL) single-turn, 17 bits |
| Sensors                              |                                   |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |
| Temperature                          | PT1000 {PT1000}                   |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |
| Feedback                             | EKS36 (HDSL) single-turn, 17 bits |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |
| Number of poles                      | 10                                |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |
| Electrical time constant             | 9.09 ms                           |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |
| Winding terminal resistance          | 0.22 Ω                            |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |
| Rotary field terminal inductance     | 2 mH                              |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |
| Customs info                         |                                   |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |
| HS Code                              | 85015220                          |                                                                                                                                                                               |            |         |  |             |                 |          |                                   |



**BGC110N00001216000**

M23, 8 poles, rotary



#### Connector 1 (283)

|          |          |
|----------|----------|
| <b>1</b> | U        |
| <b>4</b> | V        |
| <b>3</b> | W        |
| <b>2</b> | PE       |
| <b>A</b> | Brake+   |
| <b>B</b> | Brake-   |
| <b>C</b> | GND/DSL- |
| <b>D</b> | +Us/DSL+ |

