| Engineering motordata (WIN 1336) | | |
|---|---|---|
| DC bus voltage | 320 | V DC |
| Nominal AC voltage | 220 | V AC (rms) |
| Rated voltage | 170 | V AC (rms) |
| Rated power | 358 | W |
| Rated speed | 4500 | rpm |
| Rated torque | 0.76 | Nm |
| Rated current | 1.66 | A (rms) |
| Peak torque | 2.4 | Nm |
| Peak current | 6.2 | A (rms) |
| Stall torque | 0.95 | Nm |
| Stall current | 1.69 | A (rms) |
| No load speed | 6410 | rpm |
| EMF constant ±10% | 34 | V AC (rms) / 1000rpm |
| Theoretical torque constant ±10% | 0.562 | Nm / A (rms) |
| Torque constant ±10% @ rated load | 0.458 | Nm / A (rms) |
| Number of poles | 10 | |
| Electrical time constant | 1.97 | ms |
| Winding terminal resistance | 8.391 | Ω |
| Rotary field terminal inductance | 16.5 | mH |

| Customs info | |
|---|---|
| HS Code | 85015100 |

| Mechanical motor data (setting 48) | | |
|---|---|---|
| Max mechanical speed | 12000 | rpm |
| Mech. time constant | 2.30 | ms |
| Thermal time constant | 25 | min |
| Rotor inertia | 0.5 | kgcm² |
| Protection | IP64 | |
| Color | RAL 9005 | |
| Cooling | Convection | |
| Motor-only mass | 2.5 | kg |

| Sensors | |
|---|---|
| Temperature | PT1000 {PT1000} |
| Feedback | EKM36 (HDSL) multi-turn, 17 + 12 bits |

| Gearbox engineering data | | |
|---|---|---|
| Gear ratio | 75 | |
| Efficiency* | 70 | % |
| Torsional stiffness | 8 | Nm/arcmin |
| Rated output torque | 50 | Nm |
| Max output torque | 125 | Nm |
| Rated input speed | 2000 | rpm |
| Max input speed | 5000 | rpm |
| Operating temperature | <-25; 50> | °C |
| Max. backlash | < 0.5 | arcmin |
| Service life | 6000 | h |

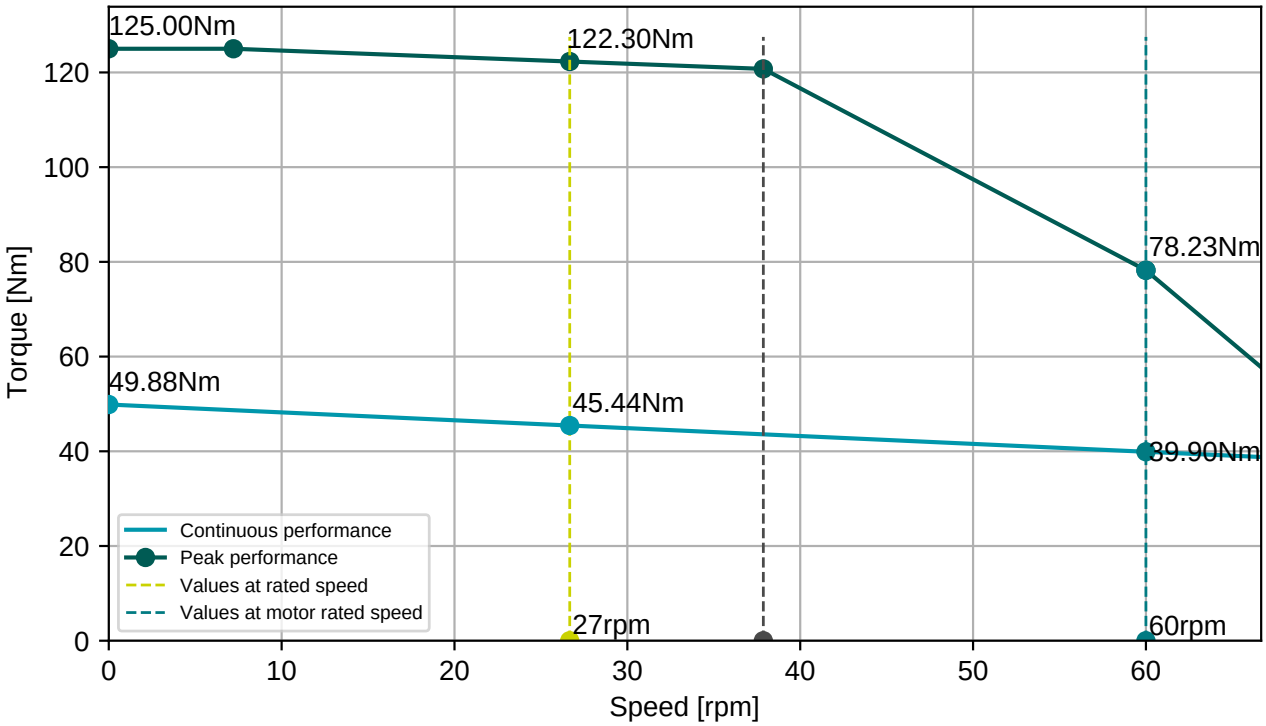
** at rated speed & torque*

| Lubrication | |
|---|---|
| Type | Standard |
| Lubricant | Mobil SHC150 |

| Gearbox mechanical data | | |
|---|---|---|
| Max. radial force | 2800 | N |
| Max. axial force | 4100 | N |
| Output shaft design | Flange | |
| Mass | 1.35 | kg |
| Input inertia | 0.061 | kgcm² |
| Protection | IP64 | |

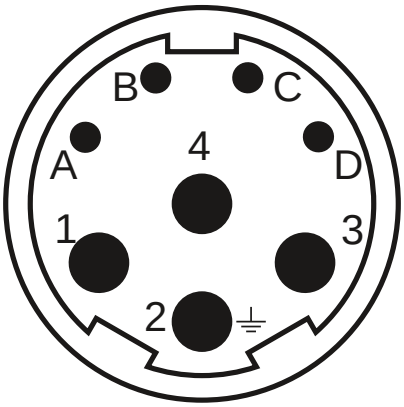
| Actuator data | | |
|---|---|---|
| Rated speed | 27 | rpm |
| Rated torque | 45.44 | Nm |
| Peak torque | 125.00 | Nm |
| EMF constant ±10% | 2550.0 | V AC (rms) / 1000rpm |
| Torque constant ±10% @ rated load | 24.04 | Nm / A (rms) |
| Total mass | 3.85 | kg |
| Output inertia | 3155.6 | kgcm² |

Torque / speed curve

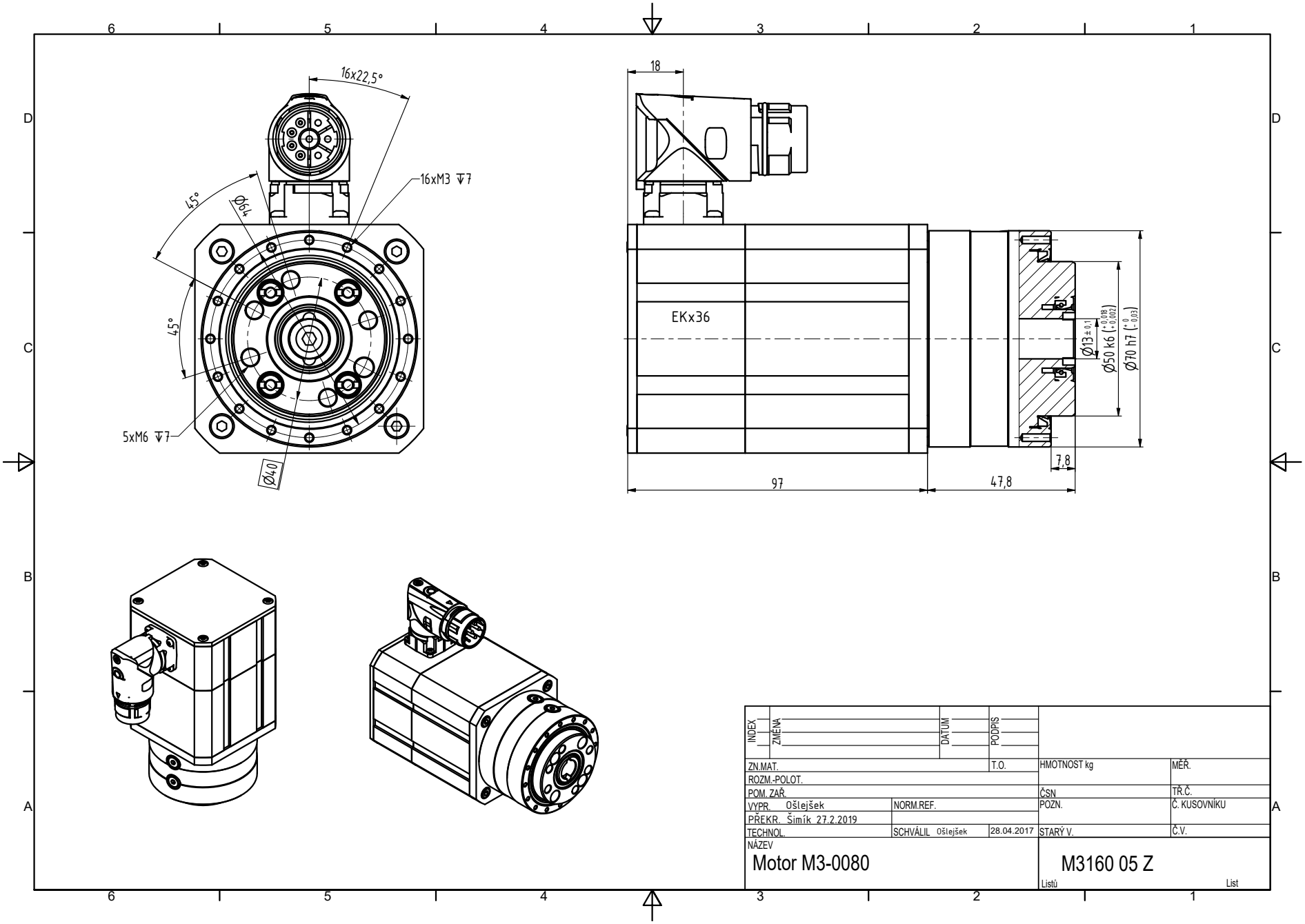



**BGC110N00001216000**

M23, 8 poles, rotary




| Connector 1 (283) | |
|---|---|
| **1** | U |
| **4** | V |
| **3** | W |
| **2** | PE |
| **A** | Brake+ |
| **B** | Brake- |
| **C** | GND/DSL- |
| **D** | +Us/DSL+ |


16x22,5°
16xM3 ↧7
45°
Ø64
45°
5xM6 ↧7
Ø40
18
EKx36
Ø13±0,1
Ø50 k6 (+0,018 +0,002)
Ø70 h7 (0 -0,03)
7,8
97
47,8
INDEX
ZMĚNA
DATUM
PODPIS
ZN.MAT.
T.O.
HMOTNOST kg
MĚŘ.
ROZM.-POLOT.
POM. ZAŘ.
ČSN
TŘ.Č.
VYPR. Ošlejšek
NORM.REF.
POZN.
Č. KUSOVNÍKU
PŘEKR. Šimík 27.2.2019
TECHNOL.
SCHVÁLIL Ošlejšek
28.04.2017
STARÝ V.
Č.V.
NÁZEV
Motor M3-0080
M3160 05 Z
Listů
List