| Engineering motordata (WIN 1435) | | |
|---|---|---|
| DC bus voltage | 560 | V DC |
| Nominal AC voltage | 380 | V AC (rms) |
| Rated voltage | 115 | V AC (rms) |
| Rated power | 113 | W |
| Rated speed | 4500 | rpm |
| Rated torque | 0.24 | Nm |
| Rated current | 0.93 | A (rms) |
| Peak torque | 1 | Nm |
| Peak current | 4 | A (rms) |
| Stall torque | 0.26 | Nm |
| Stall current | 0.9 | A (rms) |
| No load speed | 21190 | rpm |
| EMF constant ±10% | 17.5 | V AC (rms) / 1000rpm |
| Theoretical torque constant ±10% | 0.289 | Nm / A (rms) |
| Torque constant ±10% @ rated load | 0.258 | Nm / A (rms) |
| Number of poles | 6 | |
| Electrical time constant | 1.05 | ms |
| Winding terminal resistance | 27.092 | Ω |
| Rotary field terminal inductance | 28.4 | mH |

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

| Mechanical motor data (setting 48) | | |
|---|---|---|
| Max mechanical speed | 12000 | rpm |
| Mech. time constant | 2.80 | ms |
| Thermal time constant | 12 | min |
| Rotor inertia | 0.05 | kgcm² |
| Protection | IP64 | |
| Color | RAL 9005 | |
| Cooling | Convection | |
| Motor-only mass | 0.6 | kg |

| Sensors | |
|---|---|
| Temperature | PT1000 {PT1000} |
| Feedback | EKM36 (HDSL) multi-turn, 18+12 bits, SIL2 |

| Brake | | |
|---|---|---|
| Braking torque | 0.40 | Nm |
| Voltage | 24 | V DC |
| Power @20°C | 8.0 | W |
| Current @20°C | 0.33 | A |
| Inertia | 0.02 | kgcm² |
| Mass | 0.10 | kg |

| Gearbox engineering data | | |
|---|---|---|
| Gear ratio | 47 | |
| Efficiency* | 95 | % |
| Torsional stiffness | 2.5 | Nm/arcmin |
| Rated output torque | 18 | Nm |
| Max output torque | 36 | Nm |
| Emergency output torque | 90 | Nm |
| Rated input speed | 2000 | rpm |
| Max input speed | 5000 | rpm |
| Operating temperature | <-25; 50> | °C |
| Max. backlash | < 1.5 | arcmin |
| Service life | 6000 | h |

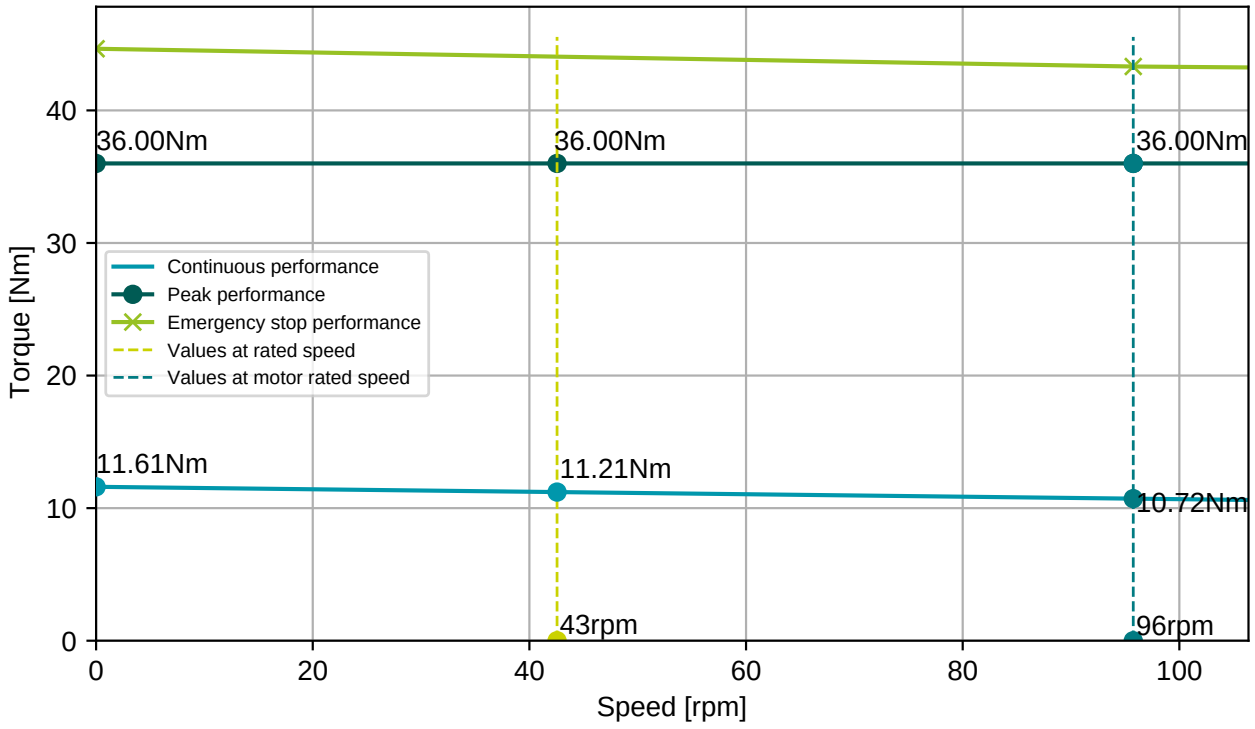
** at rated speed & torque*

| Lubrication | |
|---|---|
| Type | Standard |
| Lubricant | TRIBOL GR TT 1 PD |

| Gearbox mechanical data | | |
|---|---|---|
| Max. radial force | 1440 | N |
| Max. axial force | 1900 | N |
| Output shaft design | Flange | |
| Mass | 0.47 | kg |
| Input inertia | 0.007 | kgcm² |
| Protection | IP64 | |

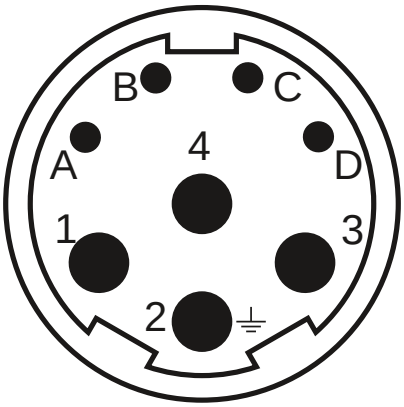
| Actuator data | | |
|---|---|---|
| Rated speed | 43 | rpm |
| Rated torque | 11.21 | Nm |
| Peak torque | 36.00 | Nm |
| Emergency stop torque | 47.00 | Nm |
| EMF constant ±10% | 822.5 | V AC (rms) / 1000rpm |
| Torque constant ±10% @ rated load | 11.52 | Nm / A (rms) |
| Total mass | 1.17 | kg |
| Output inertia | 125.9 | kgcm² |

Torque / speed curve

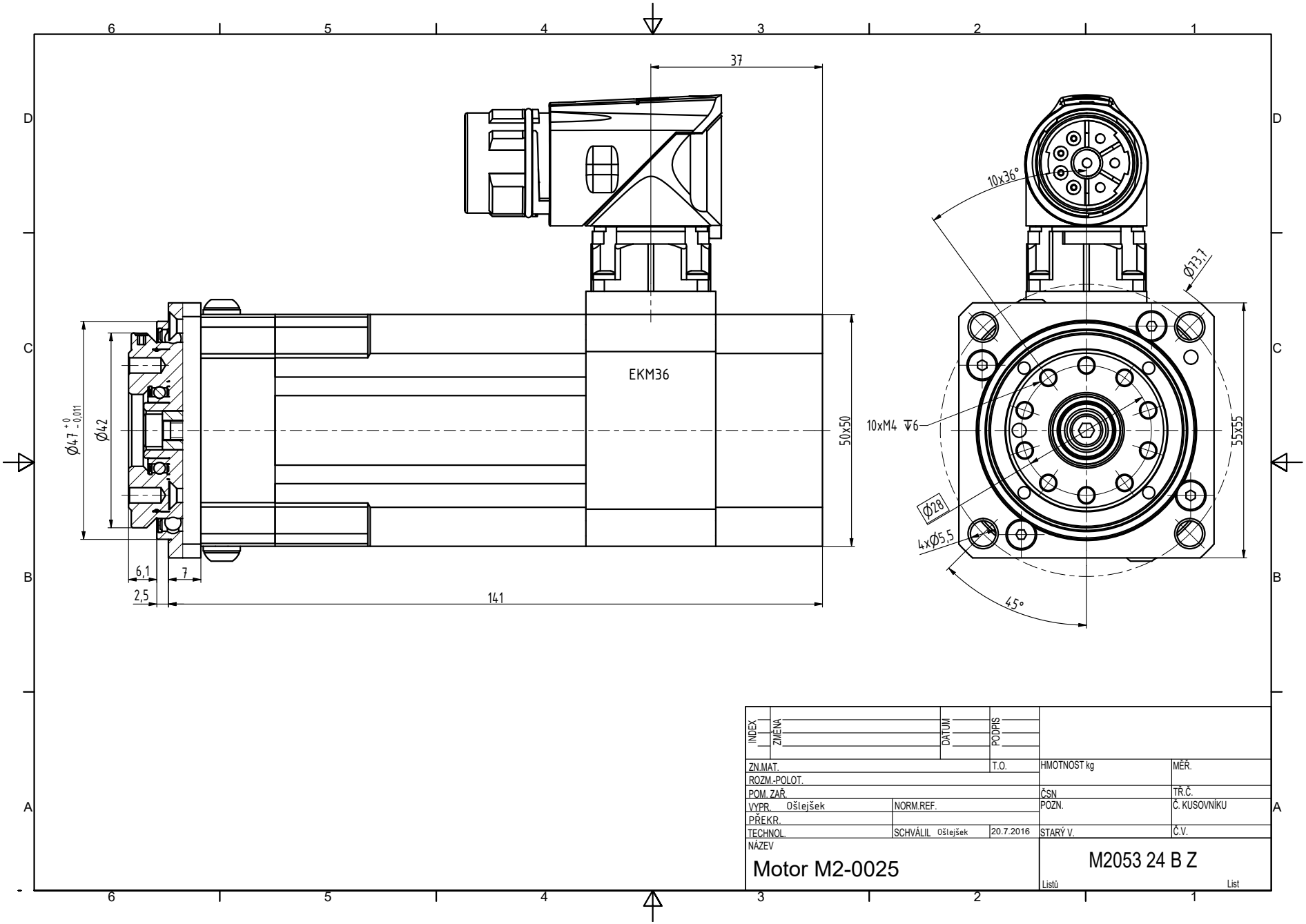



**BGC110N00001216000**

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+ |


37
EKM36
50x50
Ø47 +0 -0,011
Ø42
6,1
7
2,5
141
10x36°
Ø13,7
10xM4 ↧6
55x55
Ø28
4xØ5,5
45°
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.
TECHNOL.
SCHVÁLIL Ošlejšek
20.7.2016
STARÝ V.
Č.V.
NÁZEV
Motor M2-0025
M2053 24 B Z
Listů
List