| Engineering motordata (WIN 719) | | |
|---|---|---|
| DC bus voltage | 560 | V DC |
| Nominal AC voltage | 380 | V AC (rms) |
| Rated voltage | 269 | V AC (rms) |
| Rated power | 635 | W |
| Rated speed | 6000 | rpm |
| Rated torque | 1.01 | Nm |
| Rated current | 1.99 | A (rms) |
| Peak torque | 3.45 | Nm |
| Peak current | 7.8 | A (rms) |
| Stall torque | 1.15 | Nm |
| Stall current | 1.78 | A (rms) |
| No load speed | 9680 | rpm |
| EMF constant ±10% | 39 | V AC (rms) / 1000rpm |
| Theoretical torque constant ±10% | 0.65 | Nm / A (rms) |
| Torque constant ±10% @ rated load | 0.51 | Nm / A (rms) |
| Number of poles | 10 | |
| Electrical time constant | 2.15 | ms |
| Winding terminal resistance | 10.71 | Ω |
| Rotary field terminal inductance | 23 | mH |

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

| Mechanical motor data (setting 48) | | |
|---|---|---|
| Max mechanical speed | 12000 | rpm |
| Mech. time constant | 1.38 | ms |
| Thermal time constant | 21 | min |
| Rotor inertia | 0.31 | kgcm² |
| Protection | IP64 | |
| Color | RAL 9005 | |
| Cooling | Convection | |
| Motor-only mass | 2 | kg |
| Max. axial force 20kh | 43 | N |
| Max. radial force 20kh* | 225 | N |
| Max. axial force 100kh | 25 | N |
| Max. radial force 100kh* | 131 | N |

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

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

| Gearbox engineering data | | |
|---|---|---|
| Gear ratio | 32 | |
| Efficiency* | 92 | % |
| Torsional stiffness | 4.8 | Nm/arcmin |
| Number of stages | 2 | |
| Rated output torque | 38 | Nm |
| Cycling output torque | 77 | Nm |
| Max output torque | 103 | Nm |
| Emergency output torque | 150 | Nm |
| Rated input speed | 4500 | rpm |
| Max input speed | 10000 | rpm |
| Operating temperature | <-25; 90> | °C |
| Max. backlash | < 5 | arcmin |
| Service life | 20000 | h |

** at rated speed & torque*

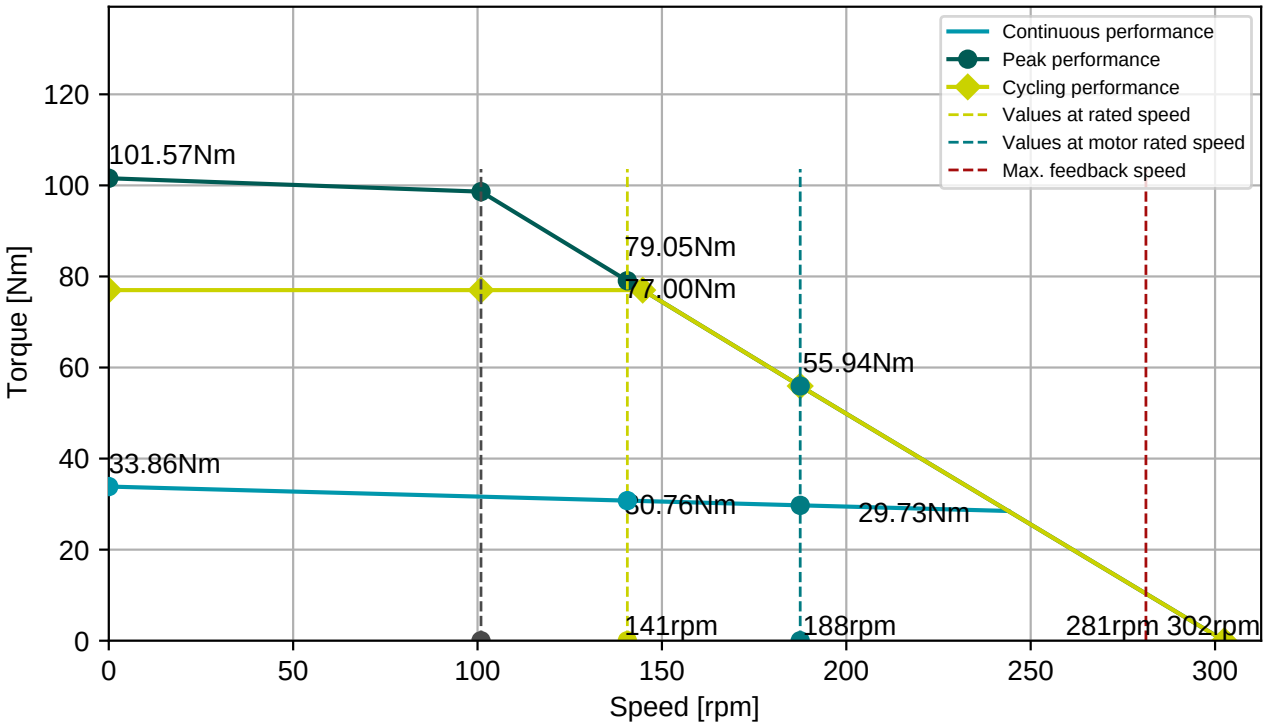
| Lubrication | |
|---|---|
| Type | Standard |
| Lubricant | Oil (lifetime lubrication) |

| Gearbox mechanical data | | |
|---|---|---|
| Radial force for 20'000h* | 3200 | N |
| Axial force for 20'000h | 4400 | N |
| Output shaft design | Shaft key | |
| Mass | 2.47 | kg |
| Input inertia | 0.213 | kgcm² |
| Protection | IP65 | |

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

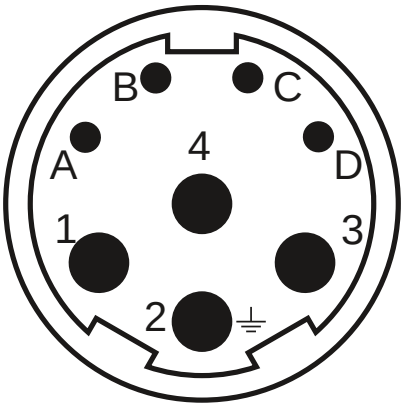
| Actuator data | | |
|---|---|---|
| Rated speed | 141 | rpm |
| Rated torque | 30.76 | Nm |
| Cycling torque | 77.00 | Nm |
| Peak torque | 101.57 | Nm |
| Emergency stop torque | 110.40 | Nm |
| EMF constant ±10% | 1248.0 | V AC (rms) / 1000rpm |
| Torque constant ±10% @ rated load | 14.94 | Nm / A (rms) |
| Total mass | 4.47 | kg |
| Output inertia | 535.6 | kgcm² |

Torque / speed curve

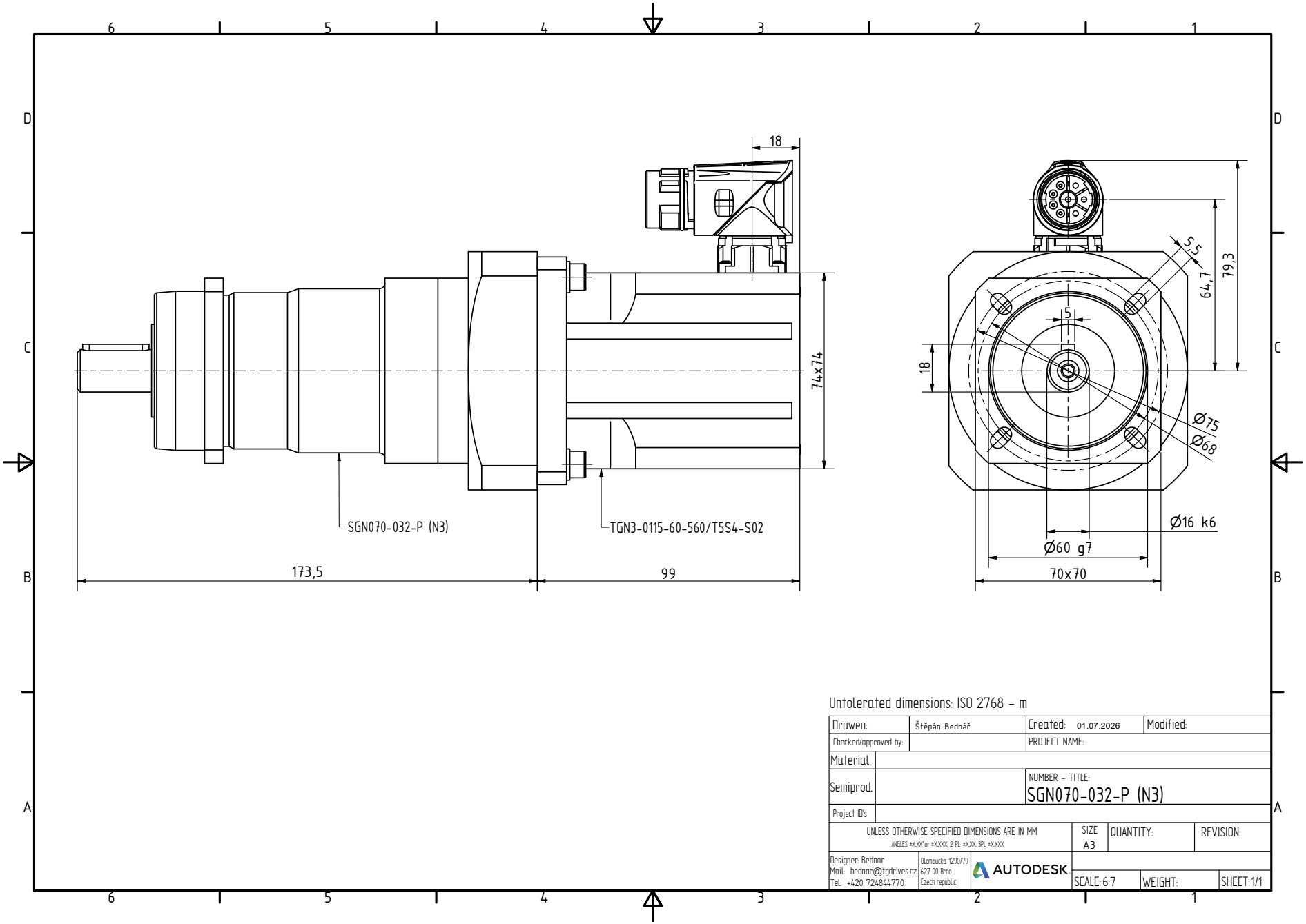



**BGC110N00001216000**

M23, 8 poles, rotary

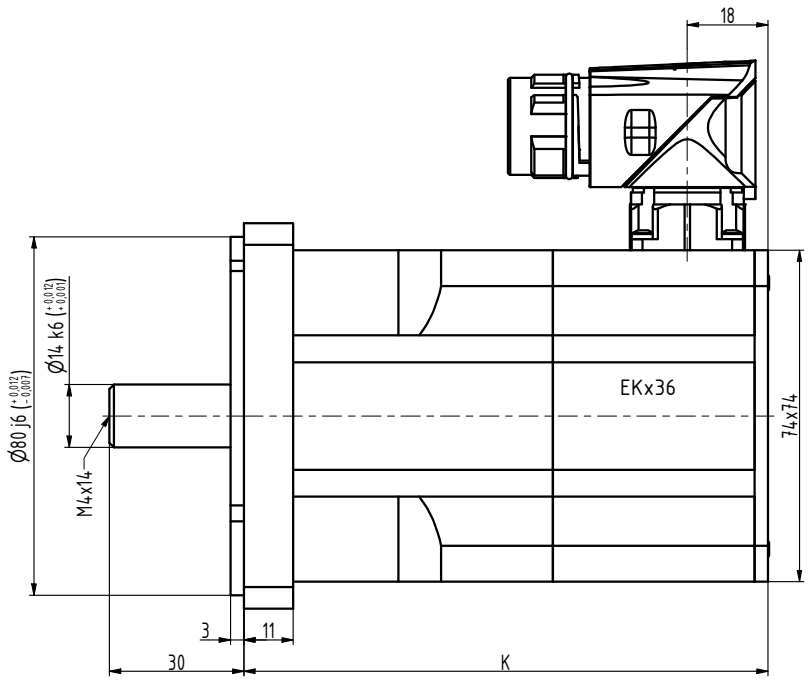


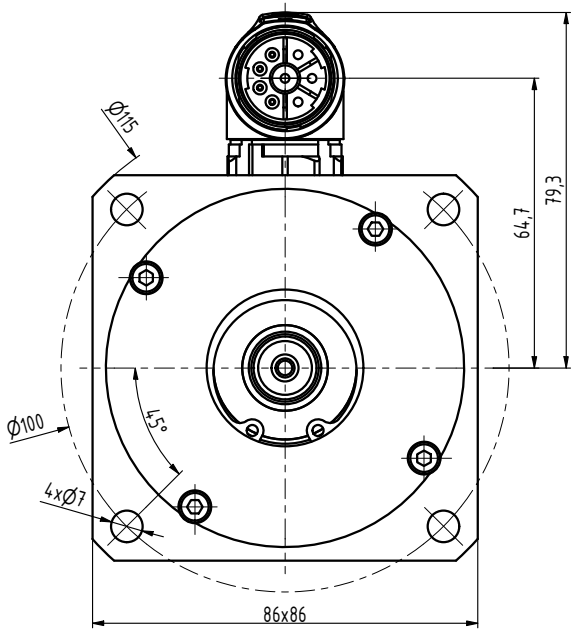

| Connector 1 (283) | |
|---|---|
| **1** | U |
| **4** | V |
| **3** | W |
| **2** | PE |
| **A** | Brake+ |
| **B** | Brake- |
| **C** | GND/DSL- |
| **D** | +Us/DSL+ |




Untolerated dimensions: ISO 2768 - m

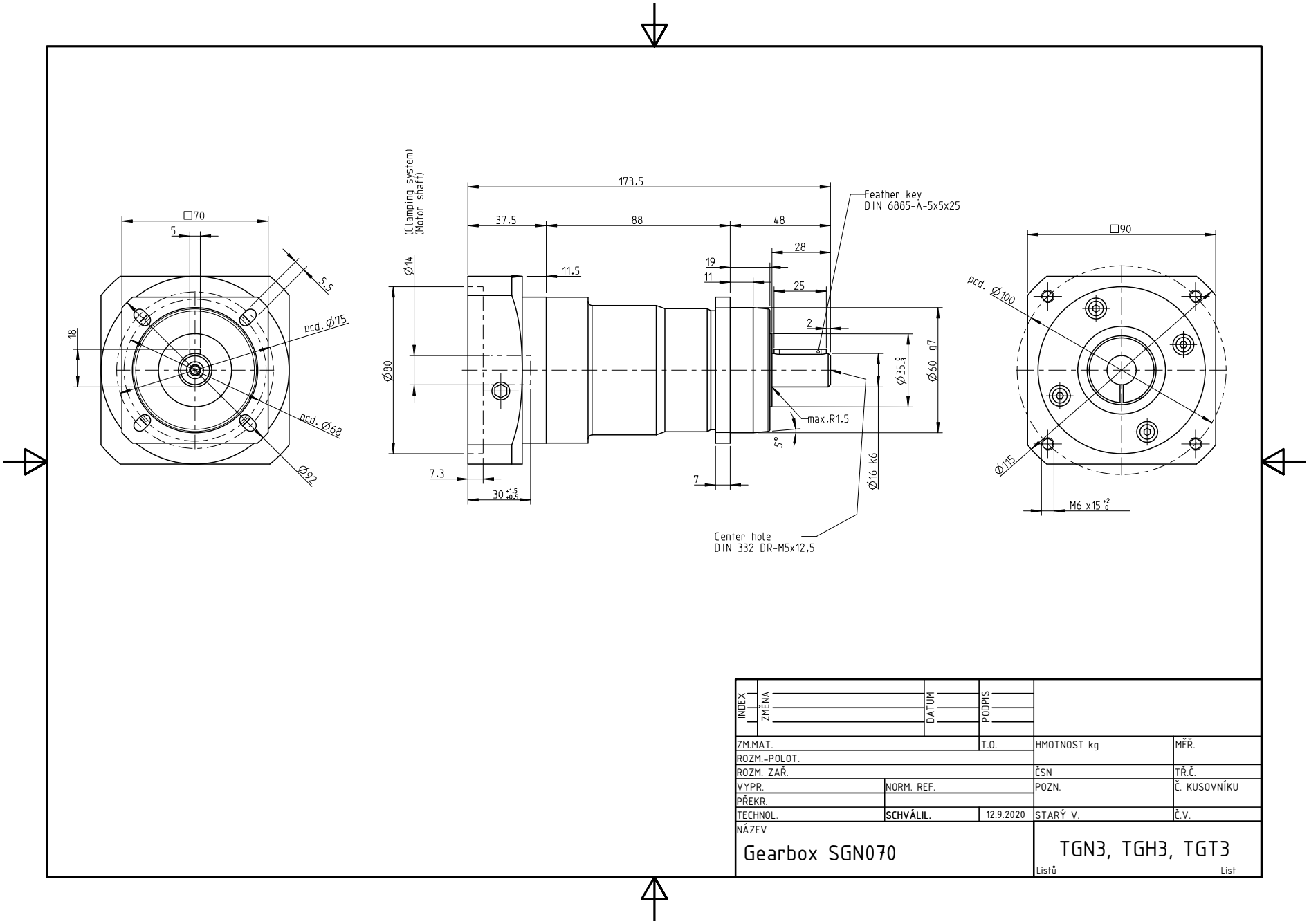
| | | | |
|---|---|---|---|
| Drawen: | Štěpán Bednář | Created: 01.07.2026 | Modified: |
| Checked/approved by: | | PROJECT NAME: | |
| Material | | | |
| Semiprod. | | NUMBER - TITLE: SGN070-032-P (N3) | |
| Project ID's | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM ANGLES ±X.XX° or ±X.XXX, 2 PL ±X.XX, 3PL ±X.XXX | | SIZE A3 / QUANTITY: / REVISION: | |
| Designer: Bednar Mail: bednar@tgdrives.cz Tel: +420 724844770 | Olomoucka 1290/79 627 00 Brno Czech republic | AUTODESK | SCALE: 6:7 / WEIGHT: / SHEET: 1/1 |




| TYP | K |
|---|---|
| N3-0115 | 99 |
| N3-0205 | 117 |
| N3-0280 | 135 |
| N3-0350 | 153 |
| N3-0420 | 171 |
| N3-0480 | 189 |

| 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. Ošlejšek 30.05.20201 | | | | | |
| TECHNOL. | | SCHVÁLIL Ošlejšek | 27.10.2017 | STARÝ V. | Č.V. |
| NÁZEV: Motor N3 | | | | N3119 06 Z_S4_S1 | |
| | | | | Listů | List |




| INDEX | ZMĚNA | DATUM | PODPIS | |
|---|---|---|---|---|
| | | | | |

| | | | | |
|---|---|---|---|---|
| ZM.MAT. | | T.O. | HMOTNOST kg | MĚŘ. |
| ROZM.-POLOT. | | | | |
| ROZM. ZAŘ. | | | ČSN | TŘ.Č. |
| VYPR. | NORM. REF. | | POZN. | Č. KUSOVNÍKU |
| PŘEKR. | | | | |
| TECHNOL. | SCHVÁLIL. | 12.9.2020 | STARÝ V. | Č.V. |

NÁZEV

Gearbox SGN070

TGN3, TGH3, TGT3

Listů List