

Engineering motordata (WIN 782)

DC bus voltage	320 V DC
Nominal AC voltage	220 V AC (rms)
Rated voltage	173 V AC (rms)
Rated power	1.3 kW
Rated speed	4500 rpm
Rated torque	2.75 Nm
Rated current	5.25 A (rms)
Peak torque	10.5 Nm
Peak current	18.9 A (rms)
Stall torque	3.5 Nm
Stall current	5.2 A (rms)
No load speed	5420 rpm
EMF constant ±10%	40.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.67 Nm / A (rms)
Torque constant ±10% @ rated load	0.52 Nm / A (rms)
Number of poles	10
Electrical time constant	2.89 ms
Winding terminal resistance	1.8 Ω
Rotary field terminal inductance	5.2 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 48)

Max mechanical speed	12000 rpm
Mech. time constant	0.72 ms
Thermal time constant	27 min
Rotor inertia	1.04 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	2 kg
Max. axial force 20kh	59 N
Max. radial force 20kh	311 N*
Max. axial force 100kh	35 N
Max. radial force 100kh	182 N*

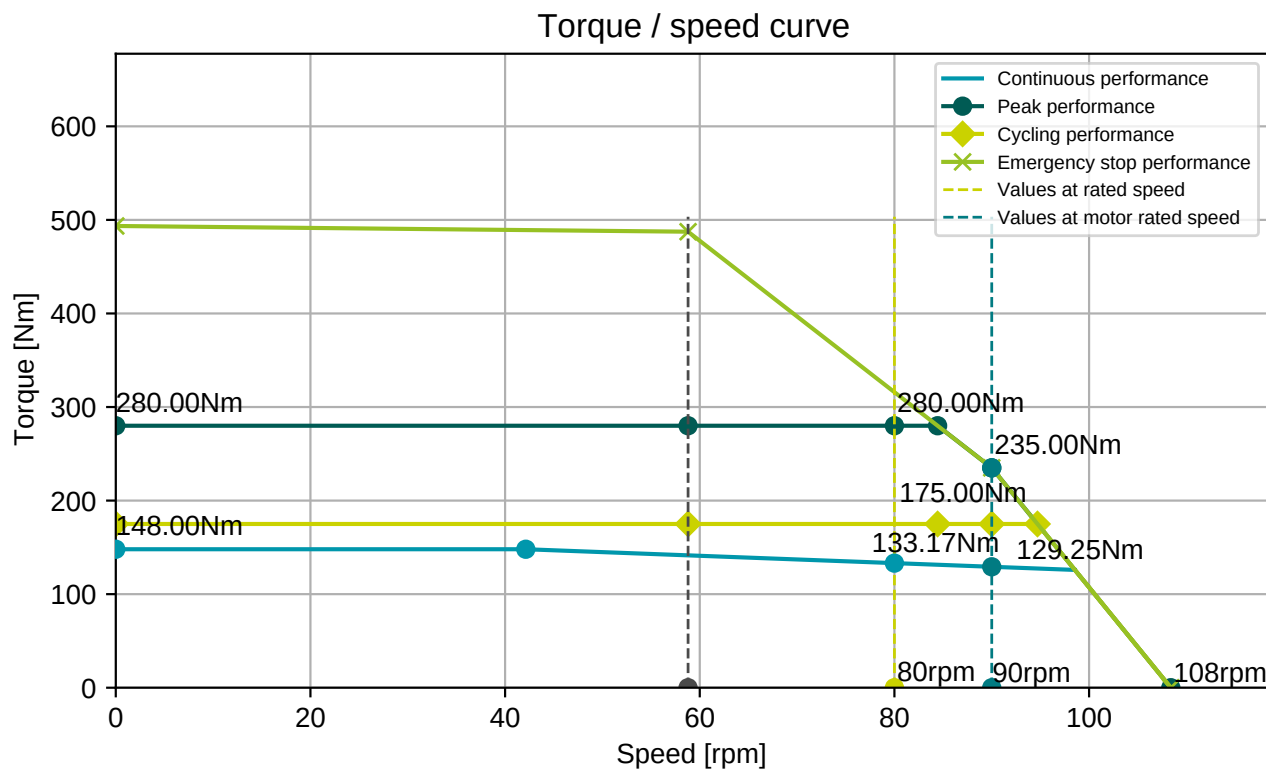
* Defined for point of action at ½ output shaft length

Sensors

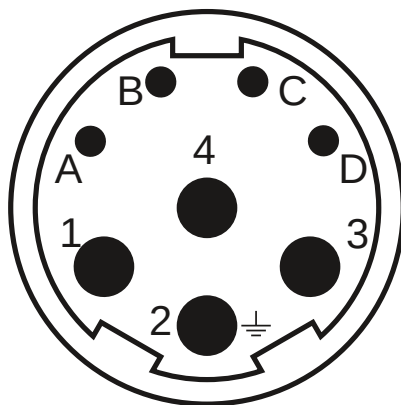
Temperature	PT1000 {PT1000}
Feedback	EKM36 (HDSL) multi-turn, 17 + 12 bits

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	50	Radial force for 20'000h	4900 N*
Efficiency	94 %*	Radial force for 30'000h	4350 N*
Torsional stiffness	79 Nm/arcmin	Max. radial force	4900 N*
Number of stages	2	Axial force for 20'000h	9500 N
Rated output torque	148 Nm	Axial force for 30'000h	8400 N
Cycling output torque	175 Nm	Max. axial force	9500 N
Max output torque	280 Nm	Tilting moment for 20'000h	475 Nm
Emergency output torque	600 Nm	Tilting moment for 30'000h	422 Nm
Rated input speed	4000 rpm	Max. bending moment	38 Nm
Max input speed	10000 rpm	Output shaft design	Smooth shaft
Operating temperature	<-25; 90> °C	Mass	7.98 kg
Max. backlash	< 5 arcmin	Input inertia	0.324 kgcm ²
Service life	20000 h	Protection	IP65
* at rated speed & torque		* Defined for point of action at ½ output shaft length	

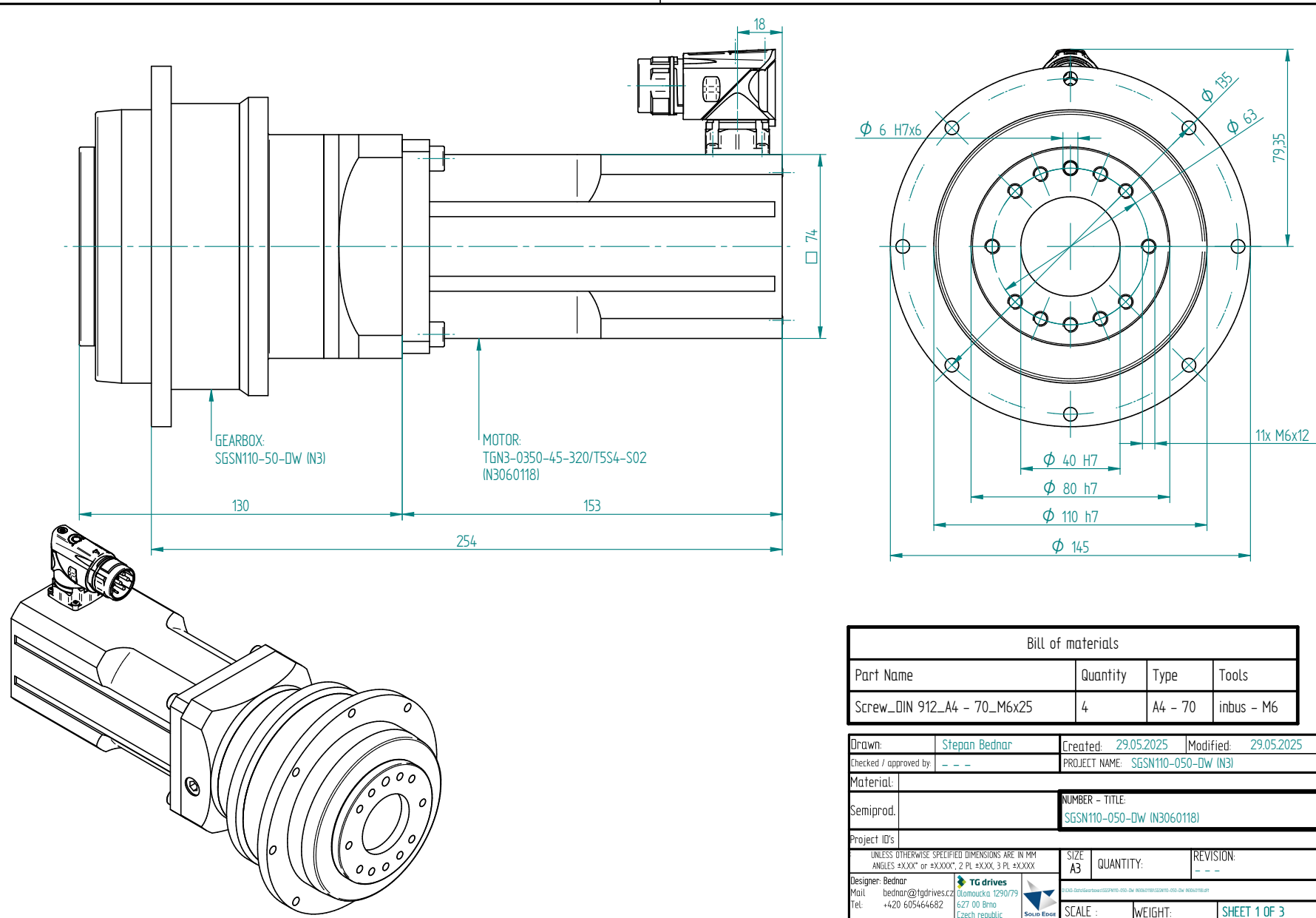
Lubrication		Actuator data	
Type	Standard	Rated speed	80 rpm
Lubricant	Castrol Optigear Synthetic 800/150	Rated torque	133.17 Nm
		Cycling torque	175.00 Nm
		Peak torque	280.00 Nm
		Emergency stop torque	525.00 Nm
		EMF constant ±10%	2025.0 V AC (rms) / 1000rpm
		Torque constant ±10% @ rated load	24.62 Nm / A (rms)
		Total mass	9.98 kg
		Output inertia	3410.0 kgcm ²

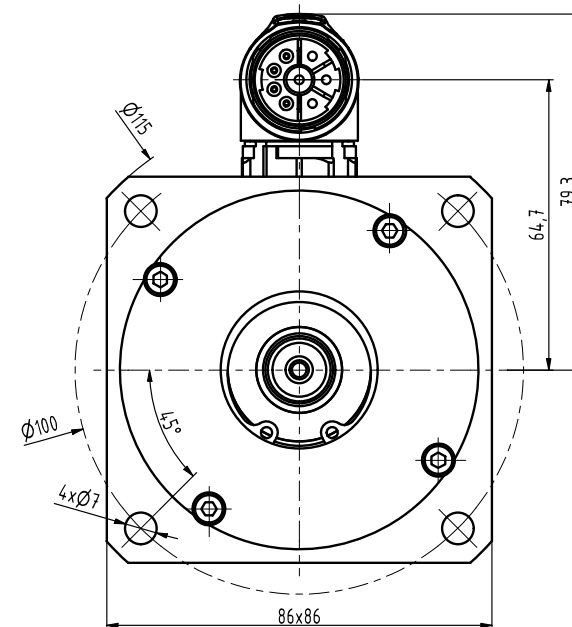
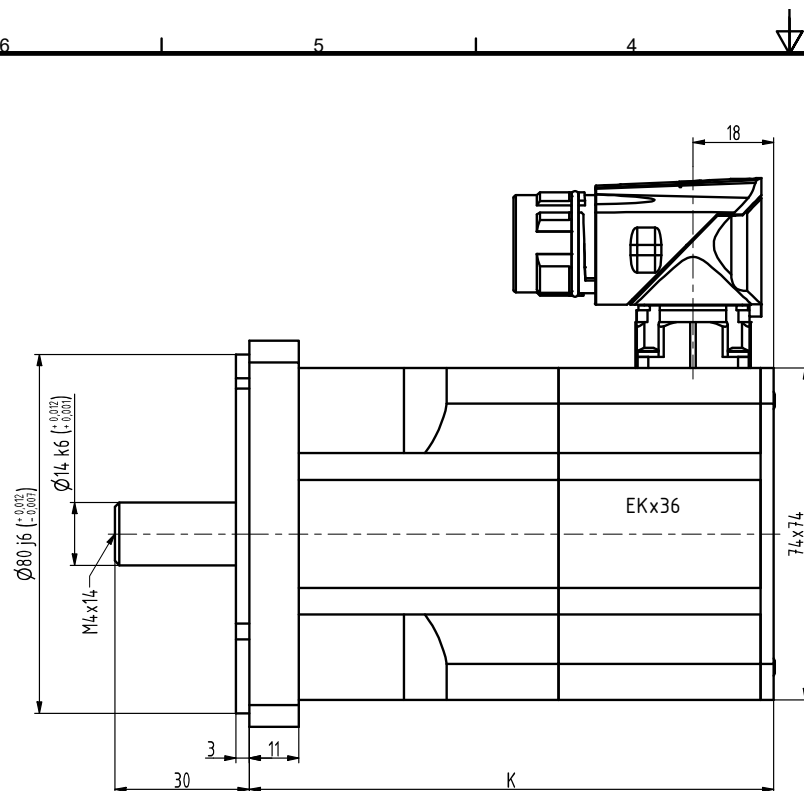

BGC110N00001216000

M23, 8 poles, rotary


Connector 1 (283)

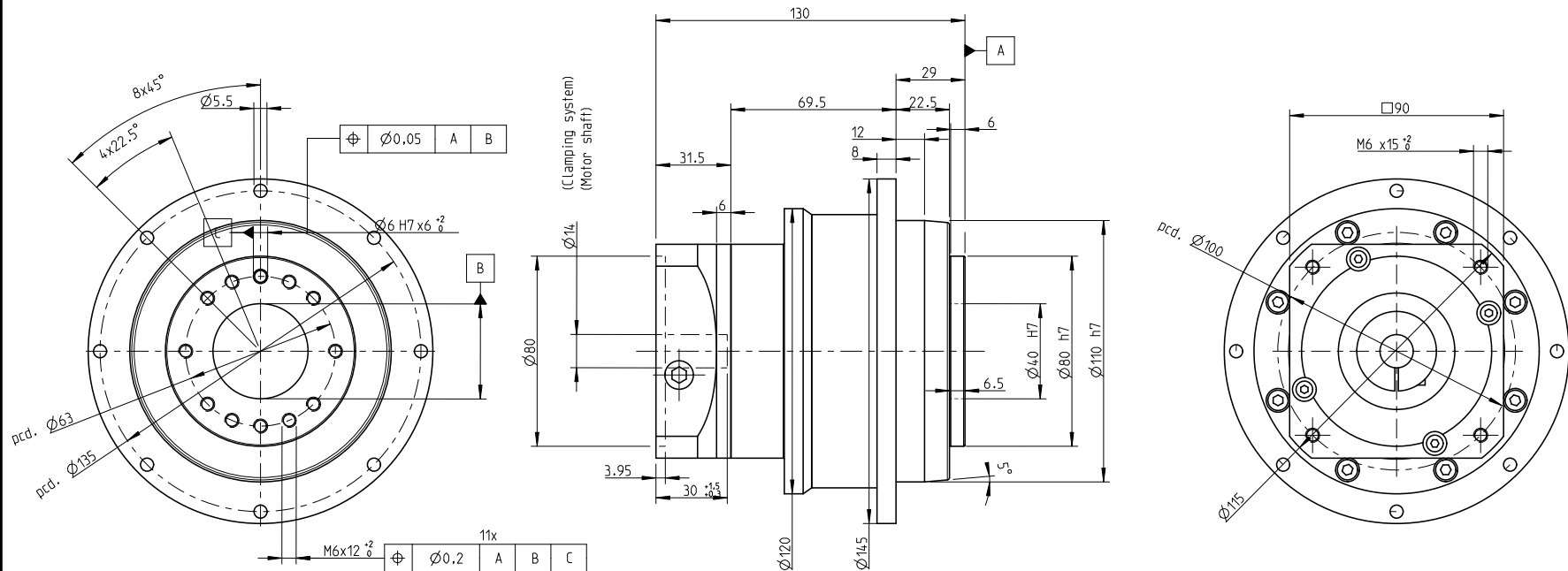
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	GND/DSL-
D	+Us/DSL+





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

INDEX	ZNAČKA	DATUM	PODPIS		
ZN.MAT.		T.O.		H.MOTNOST kg	MÉR.
ROZM.-POLOT.				ČSN	TR.Č.
POM. ZAŘ.				POZN.	Č. KUSOVNIKU
VYPR.	Ošlejšek	NORM.REF.			
PŘEKR.	Ošlejšek 30.05.20201				
TECHNOL.	SCHVÁLIL Ošlejšek	27.10.2017	STARÝ V.	Č.V.	
NAZEV				N3119 06 Z_S4_S1	
Motor N3				Listů	List



INDEX	ZNĚNA	DATUM	PODPIS	
ZM.MAT.		T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.			ČSN	TR.Č.
ROZM. ZAR.			POZN.	Č. KUSOVNÍKU
VYPR.	NORM. REF.			
PŘEKR.				
TECHNOL.	SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.
NÁZEV	Gearbox SGSN110		TGN3, TGH3, TGT3	
			Listů	List