

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

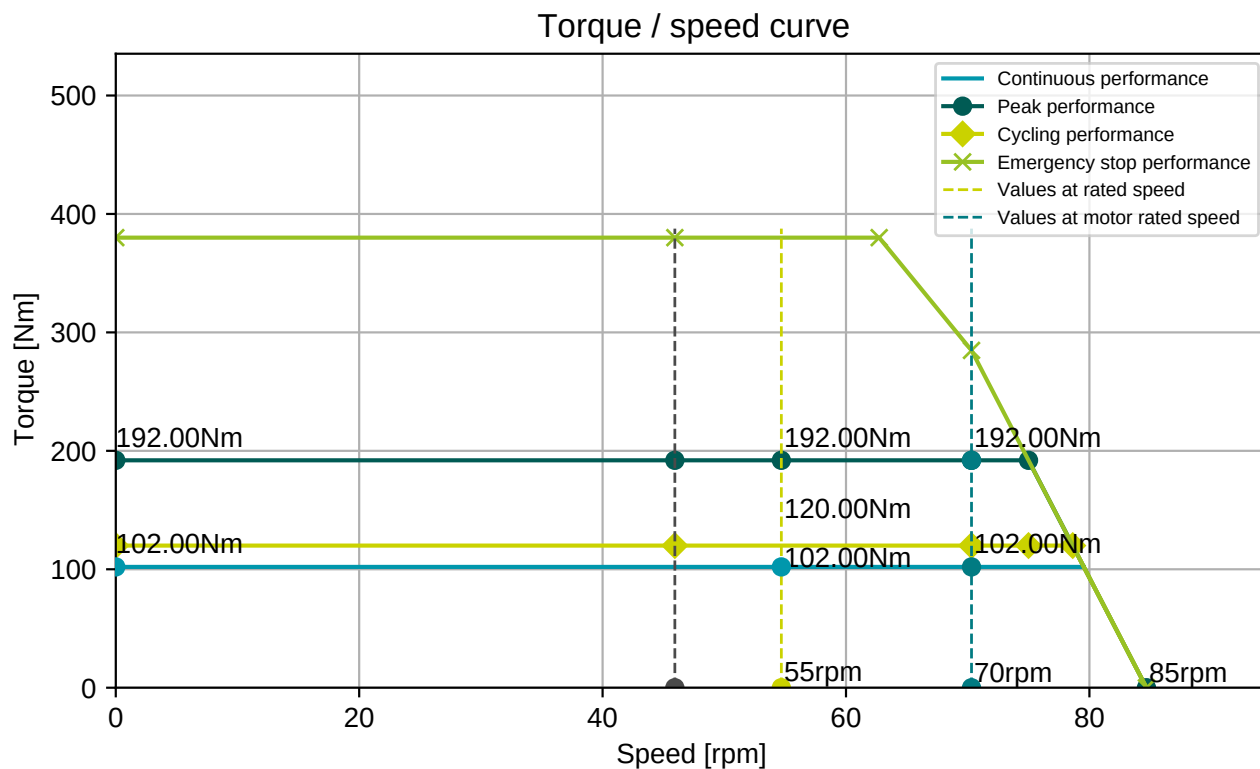
Sensors

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

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	64	Radial force for 20'000h	2400 N
Efficiency	89 %*	Radial force for 30'000h	2100 N
Torsional stiffness	49.5 Nm/arcmin	Max. radial force	3800 N
Number of stages	2	Axial force for 20'000h	3300 N
Rated output torque	102 Nm	Axial force for 30'000h	3300 N
Cycling output torque	120 Nm	Max. axial force	5200 N
Max output torque	192 Nm	Tilting moment for 20'000h	475 Nm
Emergency output torque	380 Nm	Tilting moment for 30'000h	422 Nm
Rated input speed	3500 rpm	Max. bending moment	38 Nm
Max input speed	6500 rpm	Output shaft design	Flange with dowel hole
Operating temperature	<-25; 90> °C	Mass	8.33 kg
Max. backlash	< 9 arcmin	Input inertia	1.416 kgcm ²
Service life	20000 h	Protection	IP54

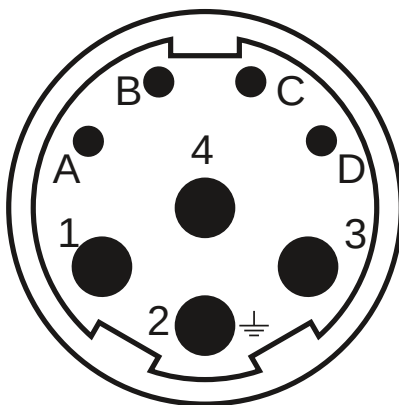
* at rated speed & torque

Lubrication		Actuator data	
Type	Standard	Rated speed	55 rpm
Lubricant	Castrol Optigear Synthetic 800/150	Rated torque	102.00 Nm
		Cycling torque	120.00 Nm
		Peak torque	192.00 Nm
		Emergency stop torque	380.00 Nm
		EMF constant ±10%	2592.0 V AC (rms) / 1000rpm
		Torque constant ±10% @ rated load	29.84 Nm / A (rms)
		Total mass	10.33 kg
		Output inertia	10059.8 kgcm ²



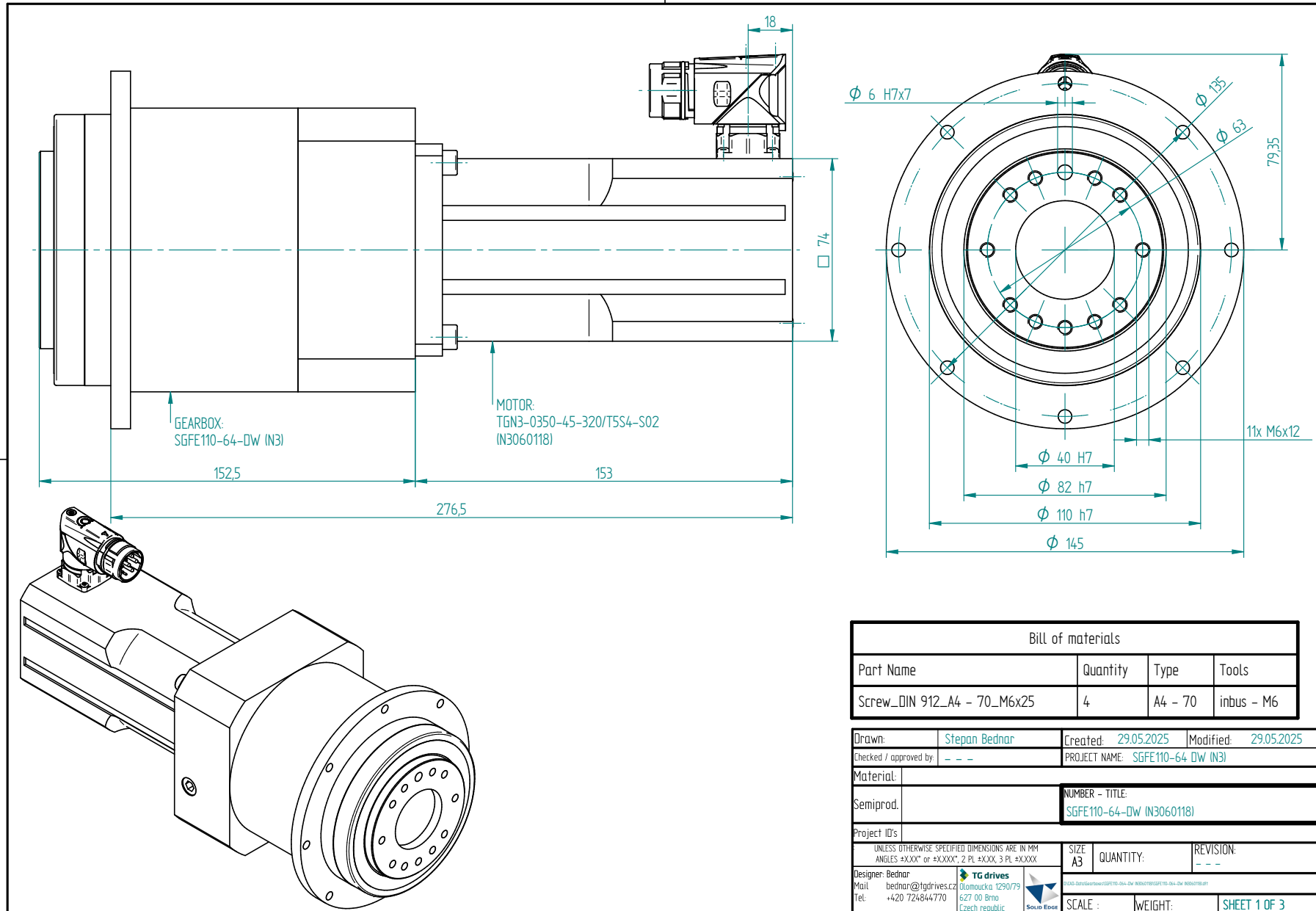
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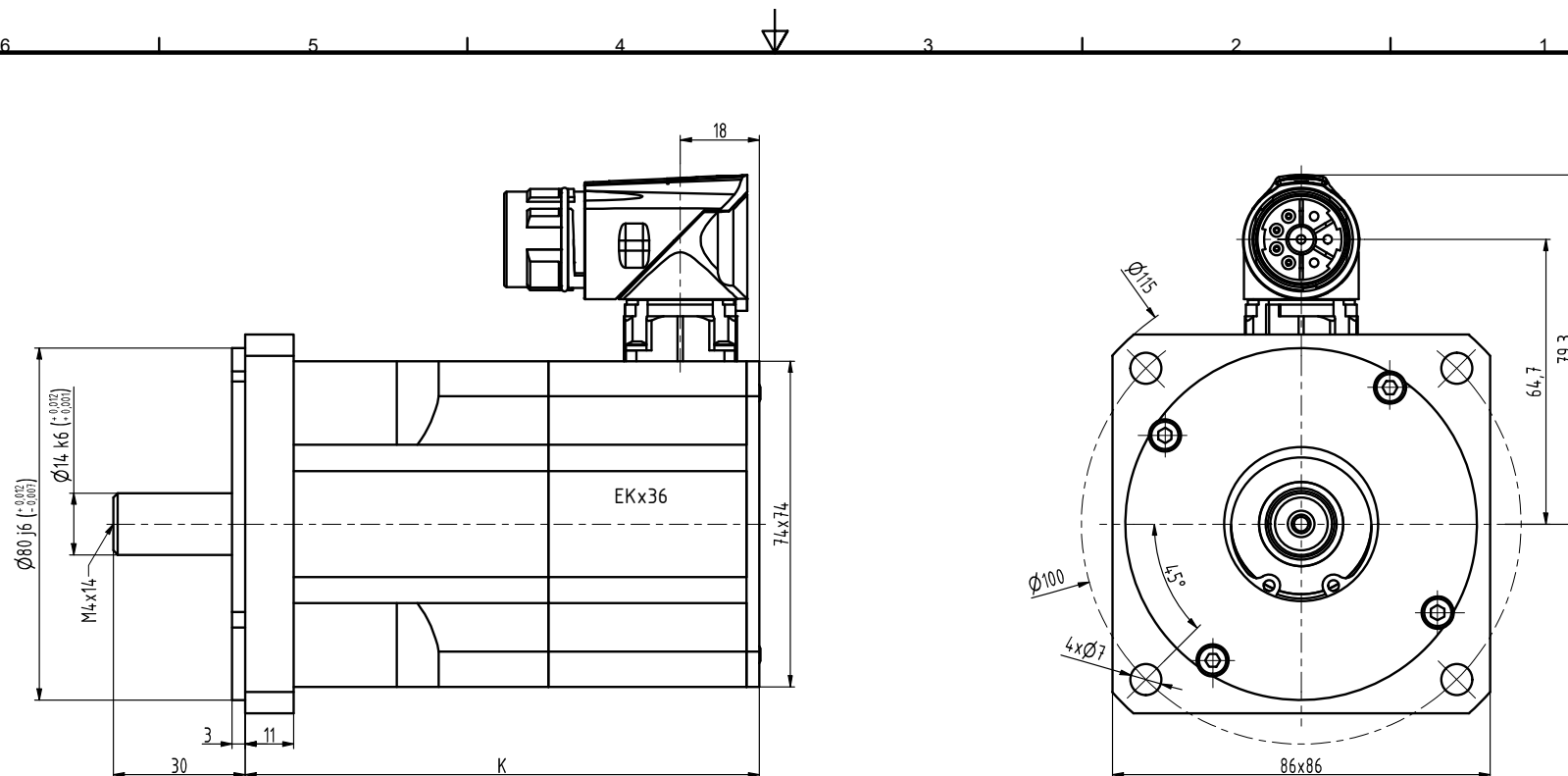
M23, 8 poles, rotary



Connector 1 (283)

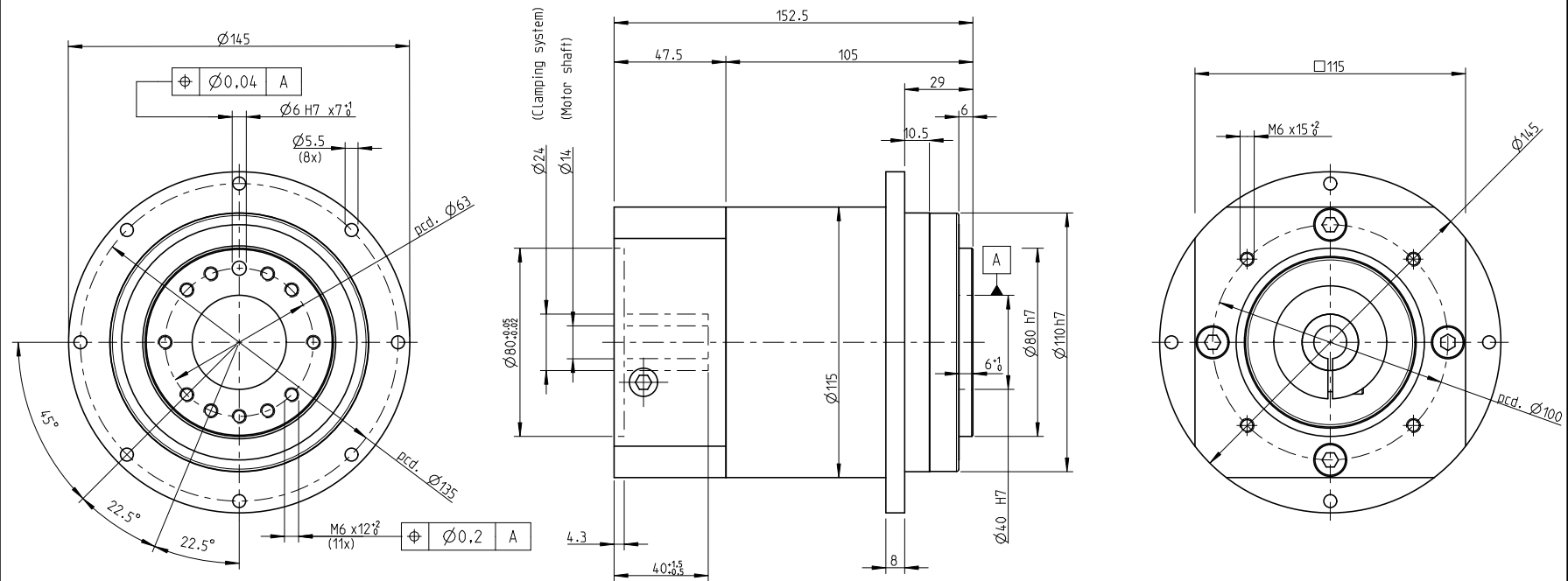
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	GND/DSL-
D	+Us/DSL+





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	MĚR.
ROZM.-POLOT.				ČSN	TR.Č.
POM. ZAŘ.		NORM.REF.		POZN.	Č. KUSOVNIKU
VYPR. Ošlejšek		30.05.20201			
PŘEKR. Ošlejšek		27.10.2017			
TECHNOL.		SCHVÁLIL Ošlejšek			
NÁZEV		STARÝ V.			
Motor N3				N3119 06 Z_S4_S1	
				Listů	List



INDEX	ZMENA	DATUM	PODPIS		
ZMMAT.			T.O.	HMOTNOST kg	MÉR.
ROZM.-POLOT.					
ROZM. ZAR.				ČSN	TRČ.
VYPR.	NORM. REF.			POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.	SCHVÁLIL.	12.9.2020		STARÝ V.	Č.V.
NÁZEV	Gearbox SGFE110			TGN3, TGH3, TGT3	
				Listů	List