

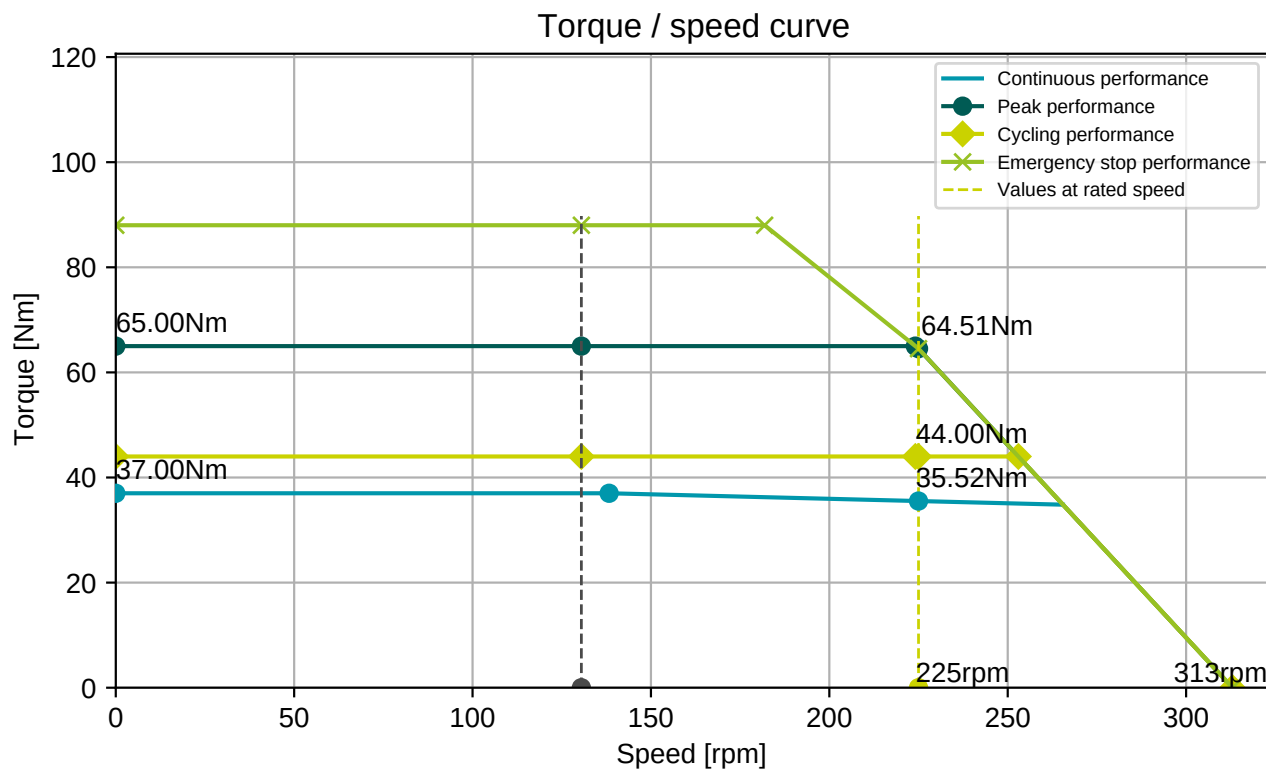
Engineering motordata (WIN 991)		Mechanical motor data (setting 48)	
DC bus voltage	320 V DC	Max mechanical speed	12000 rpm
Nominal AC voltage	220 V AC (rms)	Mech. time constant	0.94 ms
Rated voltage	168 V AC (rms)	Thermal time constant	23 min
Rated power	872 W	Rotor inertia	0.55 kgcm ²
Rated speed	4500 rpm	Protection	IP64
Rated torque	1.85 Nm	Color	RAL 9005
Rated current	4.03 A (rms)	Cooling	Convection
Peak torque	6.15 Nm	Motor-only mass	2 kg
Peak current	14.3 A (rms)	Max. axial force 20kh	54 N
Stall torque	2.05 Nm	Max. radial force 20kh	286 N*
Stall current	3.54 A (rms)	Max. axial force 100kh	32 N
No load speed	6260 rpm	Max. radial force 100kh	167 N*
EMF constant ±10%	35 V AC (rms) / 1000rpm	* Defined for point of action at ½ output shaft length	
Theoretical torque constant ±10%	0.58 Nm / A (rms)		
Torque constant ±10% @ rated load	0.46 Nm / A (rms)	Sensors Temperature PT1000 {PT1000} Feedback EES37 (HDSL) single-turn, 17 bits	
Number of poles	10		
Electrical time constant	2.52 ms		
Winding terminal resistance	3.3 Ω		
Rotary field terminal inductance	8.3 mH		

Customs info	
HS Code	85015220

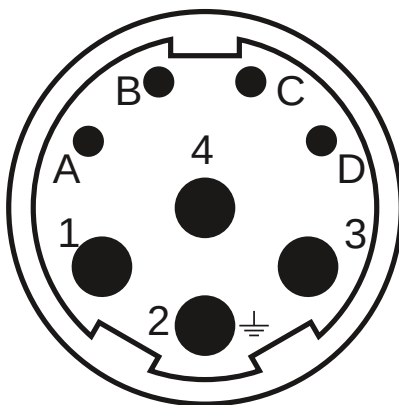
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	20	Radial force for 20'000h	400 N*
Efficiency	96 %*	Radial force for 30'000h	340 N*
Torsional stiffness	2.8 Nm/arcmin	Max. radial force	700 N*
Number of stages	2	Axial force for 20'000h	500 N
Rated output torque	37 Nm	Axial force for 30'000h	450 N
Cycling output torque	44 Nm	Max. axial force	800 N
Max output torque	65 Nm	Tilting moment for 20'000h	14 Nm
Emergency output torque	88 Nm	Tilting moment for 30'000h	12 Nm
Rated input speed	4500 rpm	Max. bending moment	12 Nm
Max input speed	13000 rpm	Output shaft design	Shaft key
Operating temperature	<-25; 90> °C	Mass	1.07 kg
Max. backlash	< 12 arcmin	Input inertia	0.096 kgcm ²
Service life	20000 h	Protection	IP54
* at rated speed & torque		* Defined for point of action at ½ output shaft length	

Lubrication	
Type	Standard
Lubricant	Grease (lifetime lubrication)

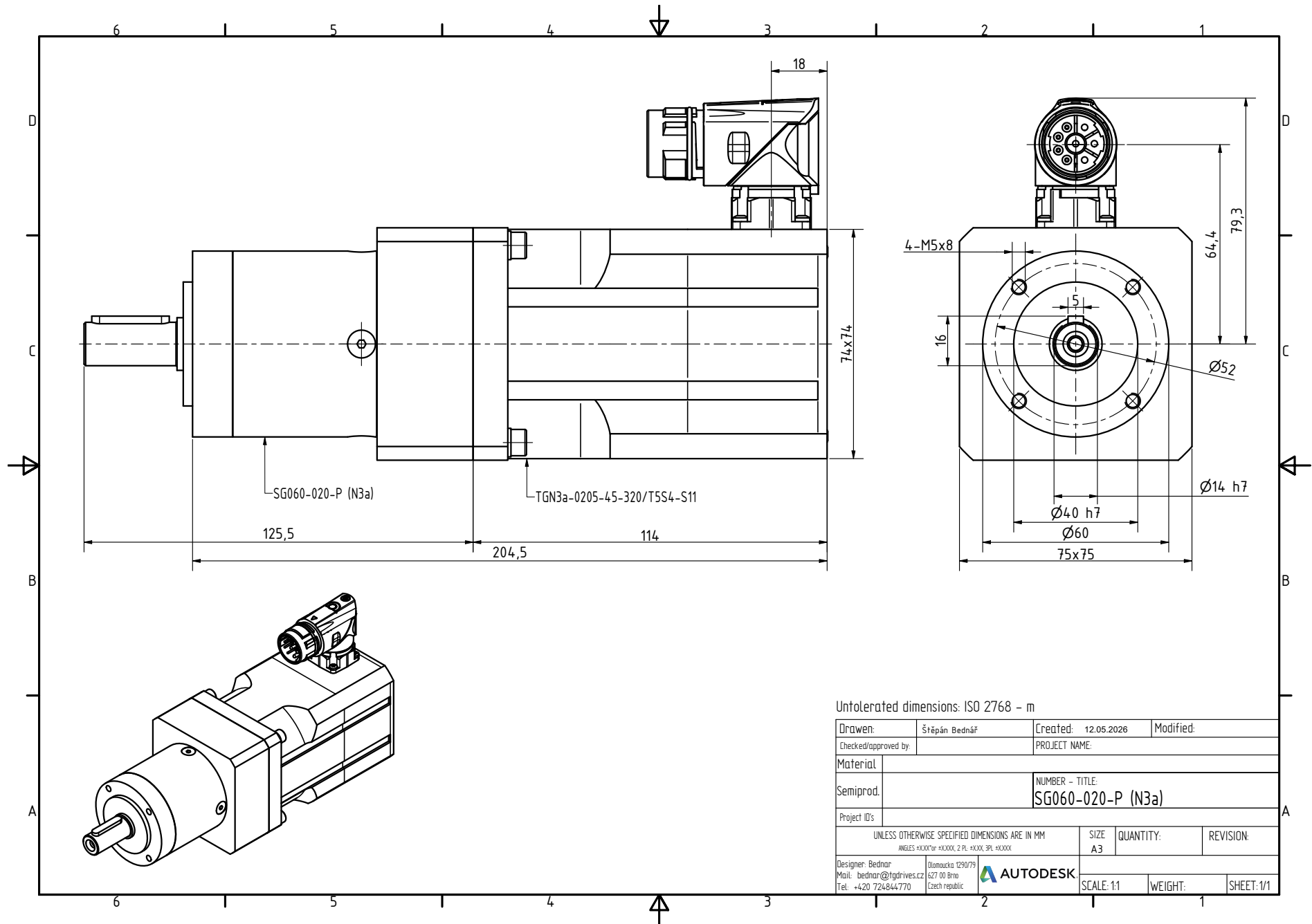
Actuator data	
Rated speed	225 rpm
Rated torque	35.52 Nm
Cycling torque	44.00 Nm
Peak torque	65.00 Nm
Emergency stop torque	88.00 Nm
EMF constant ±10%	700.0 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	8.81 Nm / A (rms)
Total mass	3.07 kg
Output inertia	258.4 kgcm ²


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+



Untolerated dimensions: ISO 2768 - m

Drawn:		Štěpán Bednář		Created: 12.05.2026		Modified:			
Checked/approved by:				PROJECT NAME:					
Material:									
Semiprod.		NUMBER - TITLE: SG060-020-P (N3a)							
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: 1:1		WEIGHT:		SHEET: 1/1	

