

Engineering motordata (WIN 815)

DC bus voltage	320 V DC
Nominal AC voltage	220 V AC (rms)
Rated voltage	166 V AC (rms)
Rated power	226 W
Rated speed	4500 rpm
Rated torque	0.48 Nm
Rated current	1.12 A (rms)
Peak torque	2.16 Nm
Peak current	5.4 A (rms)
Stall torque	0.54 Nm
Stall current	1.17 A (rms)
No load speed	7740 rpm
EMF constant ±10%	28 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.46 Nm / A (rms)
Torque constant ±10% @ rated load	0.43 Nm / A (rms)
Number of poles	6
Electrical time constant	1.27 ms
Winding terminal resistance	25.37 Ω
Rotary field terminal inductance	32.3 mH

Customs info

HS Code	85015100
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Mechanical motor data (setting 48)

Max mechanical speed	12000 rpm
Mech. time constant	1.43 ms
Thermal time constant	12 min
Rotor inertia	0.07 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	0.9 kg
Max. axial force 20kh	39 N
Max. radial force 20kh	205 N*
Max. axial force 100kh	23 N
Max. radial force 100kh	120 N*

* Defined for point of action at ½ output shaft length

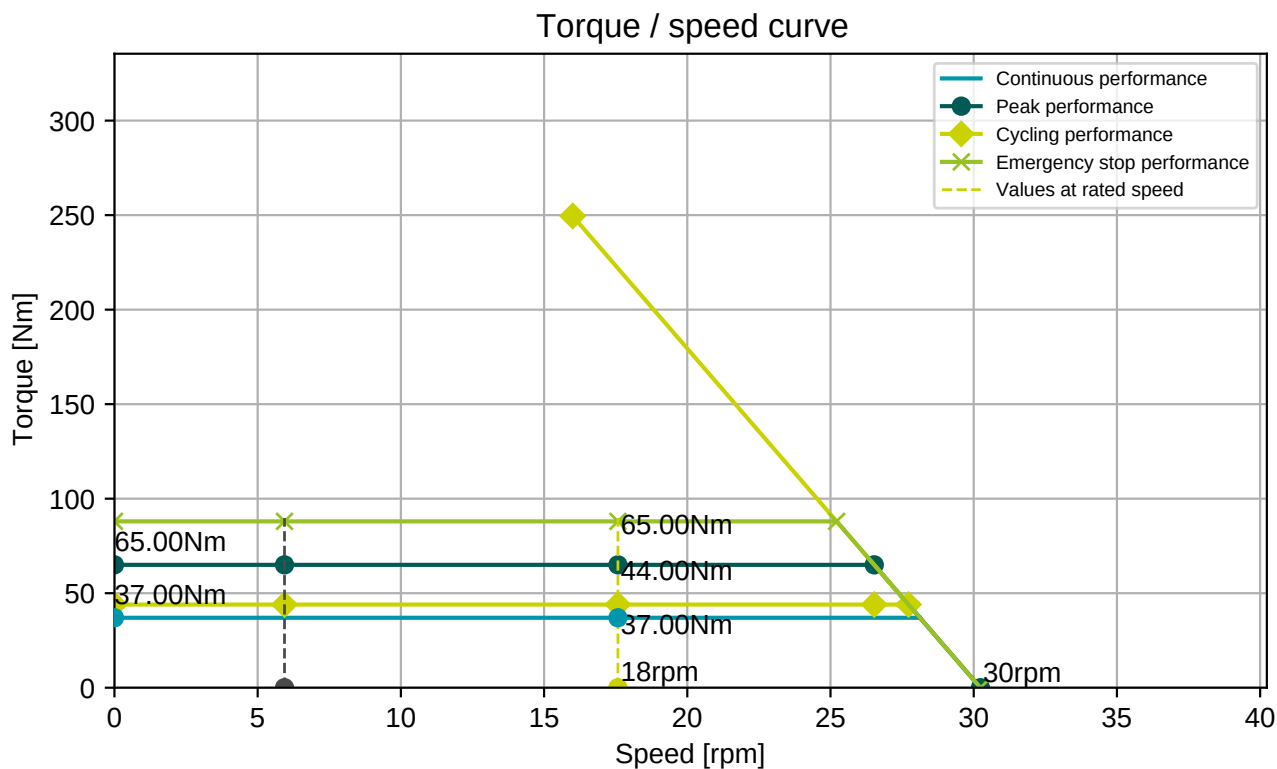
Sensors

Temperature	PT1000 {PT1000}
Feedback	EES37 (HDSL) single-turn, 17 bits

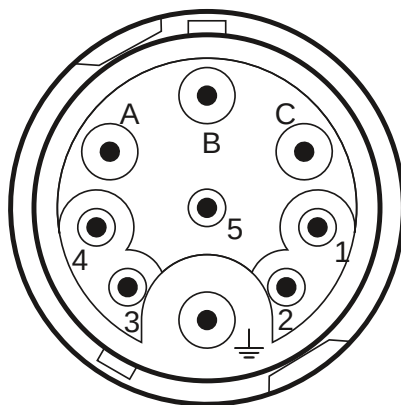
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	256	Radial force for 20'000h	400 N*
Efficiency	81 %*	Radial force for 30'000h	340 N*
Torsional stiffness	2.8 Nm/arcmin	Max. radial force	700 N*
Number of stages	3	Axial force for 20'000h	500 N
Rated output torque	37 Nm	Axial force for 30'000h	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	1.28 kg
Max. backlash	< 15 arcmin	Input inertia	0.066 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)

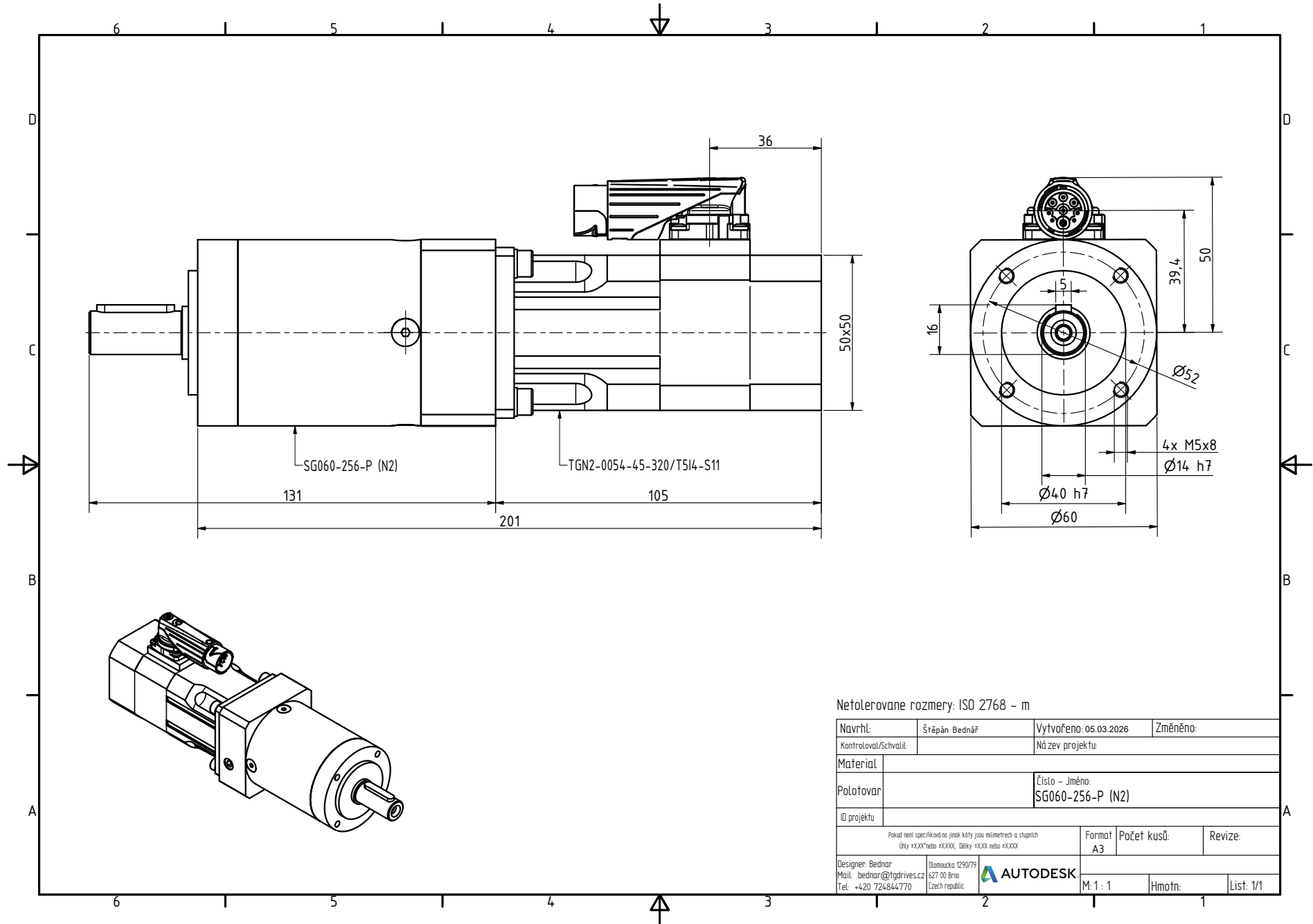
Actuator data	
Rated speed	18 rpm
Rated torque	37.00 Nm
Cycling torque	44.00 Nm
Peak torque	65.00 Nm
Emergency stop torque	88.00 Nm
EMF constant ±10%	7168.0 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	88.87 Nm / A (rms)
Total mass	2.18 kg
Output inertia	8912.9 kgcm ²


EGA201N00000800000

M15, 9 poles, rotary


Connector 1 (304)

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



Netolerované rozměry: ISO 2768 - m

Navrhl:	Štěpán Bednář	Vytvořeno: 05.03.2026	Změněno:
Kontroloval/Schválil:	Název projektu:		
Material			
Polotovár	Číslo - Jméno: SG060-256-P (N2)		
ID projektu			
Pokud není specifikováno jinak, všechny rozměry jsou v milimetrech a stupních. Úhly: $\times 100^\circ$ nebo $\times 100^\circ$, Délky: $\times 100$ nebo $\times 1000$		Formát A3	Počet kusů:
Designer: Bednar Mail: bednar@tgdrives.cz Tel: +420 724844770		Olomoucká 1290/79 627 00 Brno Czech republic	Revize:
		AUTODESK	M: 1 : 1
		Hmotn:	List: 1/1

