

Engineering motordata (WIN 1068)

DC bus voltage	560 V DC
Nominal AC voltage	380 V AC (rms)
Rated voltage	308 V AC (rms)
Rated power	7.6 kW
Rated speed	2000 rpm
Rated torque	36.50 Nm
Rated current	17.31 A (rms)
Peak torque	132 Nm
Peak current	63.7 A (rms)
Stall torque	44 Nm
Stall current	17.7 A (rms)
No load speed	2530 rpm
EMF constant ±10%	154 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	2.547 Nm / A (rms)
Torque constant ±10% @ rated load	2.109 Nm / A (rms)
Number of poles	10
Electrical time constant	14.29 ms
Winding terminal resistance	0.49 Ω
Rotary field terminal inductance	7 mH

Customs info

HS Code	85015230
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Mechanical motor data (setting 48)

Max mechanical speed	6000 rpm
Mech. time constant	0.61 ms
Thermal time constant	62 min
Rotor inertia	47 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	26 kg
Max. axial force 20kh	165 N
Max. radial force 20kh	871 N*
Max. axial force 100kh	97 N
Max. radial force 100kh	509 N*

* Defined for point of action at ½ output shaft length

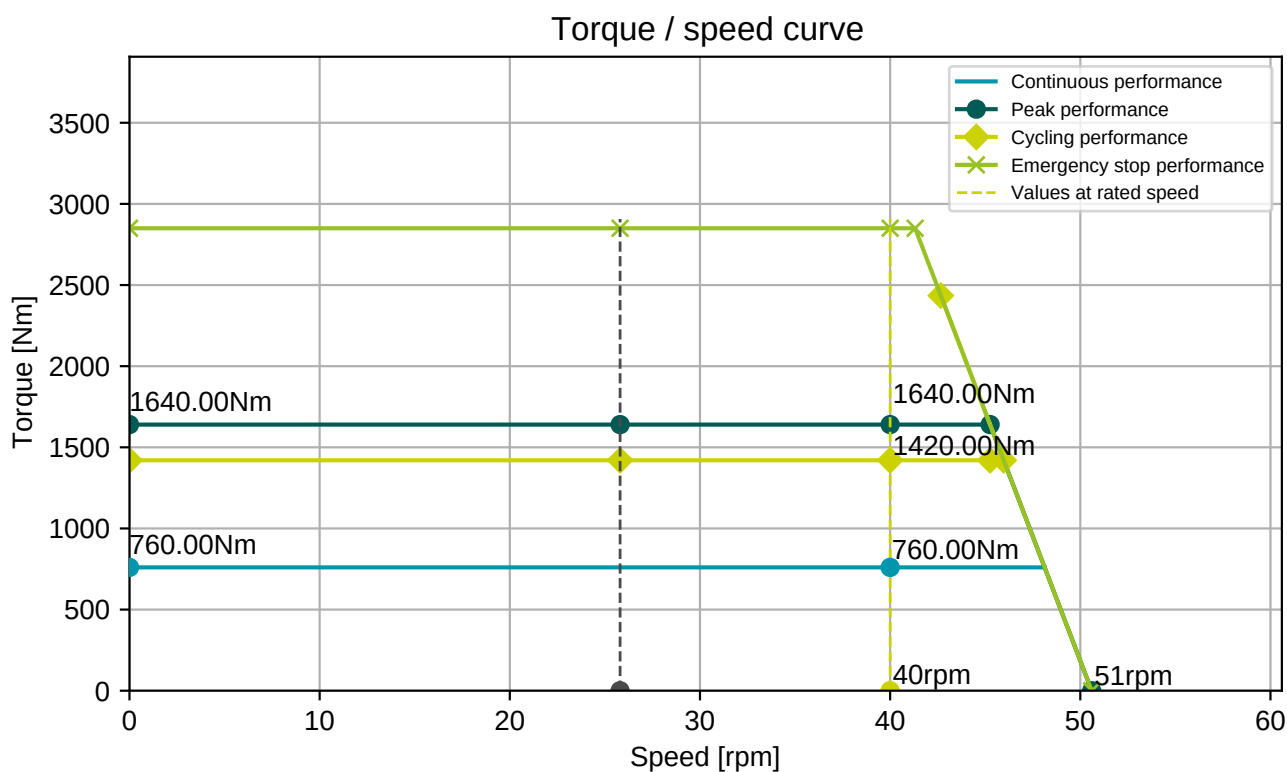
Sensors

Temperature	PT1000 {PT1000}
Feedback	EDS35 (HDSL) single-turn, 24 bits

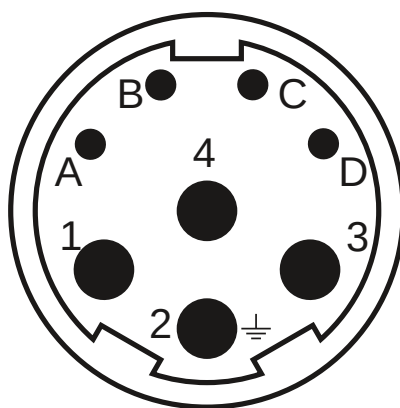
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	50	Radial force for 20'000h	33000 N
Efficiency	95 %*	Radial force for 30'000h	29500 N
Torsional stiffness	614 Nm/arcmin	Max. radial force	33000 N
Number of stages	2	Axial force for 20'000h	25000 N
Rated output torque	760 Nm	Axial force for 30'000h	25000 N
Cycling output torque	1420 Nm	Max. axial force	29500 N
Max output torque	1640 Nm	Tilting moment for 20'000h	4957 Nm
Emergency output torque	2850 Nm	Tilting moment for 30'000h	4431 Nm
Rated input speed	2750 rpm	Max. bending moment	180 Nm
Max input speed	6500 rpm	Output shaft design	Flange
Operating temperature	<-25; 90> °C	Mass	42.99 kg
Max. backlash	< 1 arcmin	Input inertia	7.102 kgcm ²
Service life	20000 h	Protection	IP65

* at rated speed & torque

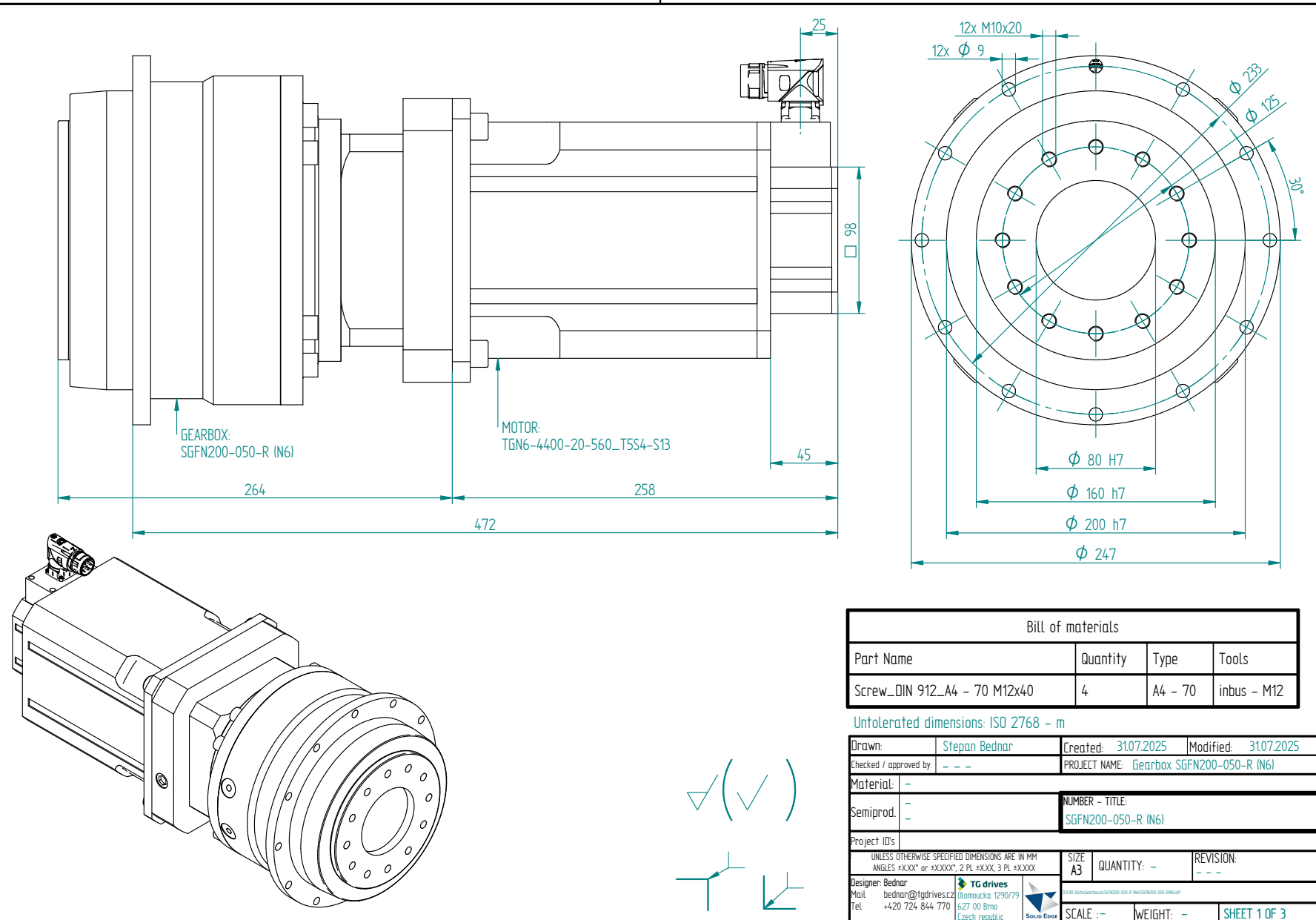
Lubrication		Actuator data	
Type	Standard	Rated speed	40 rpm
Lubricant	Castrol Optigear Synthetic	Rated torque	760.00 Nm
	800/150	Cycling torque	1420.00 Nm
		Peak torque	1640.00 Nm
		Emergency stop torque	2850.00 Nm
		EMF constant ±10%	7700.0 V AC (rms) / 1000rpm
		Torque constant ±10% @ rated load	100.16 Nm / A (rms)
		Total mass	68.99 kg
		Output inertia	135255.0 kgcm ²

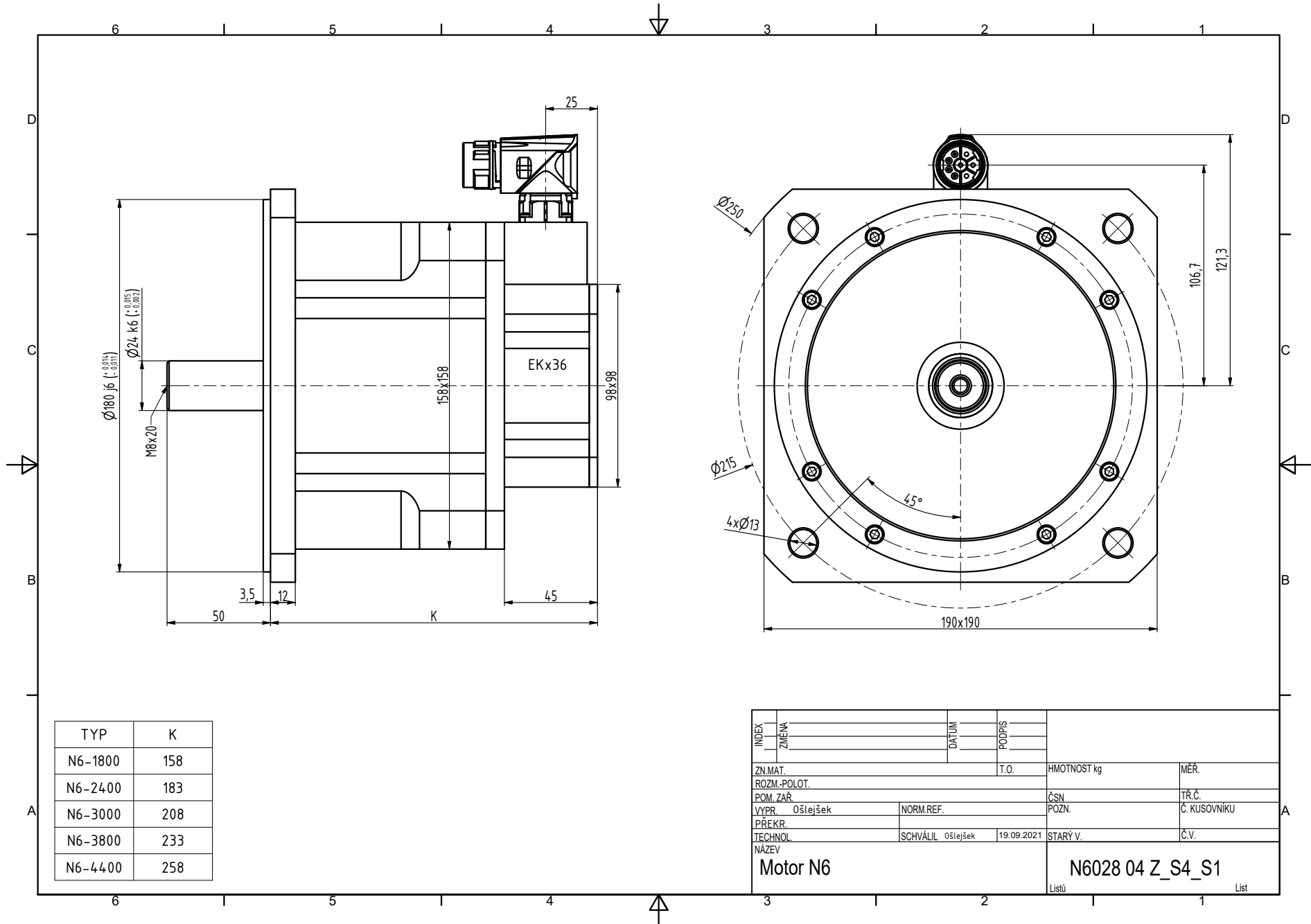

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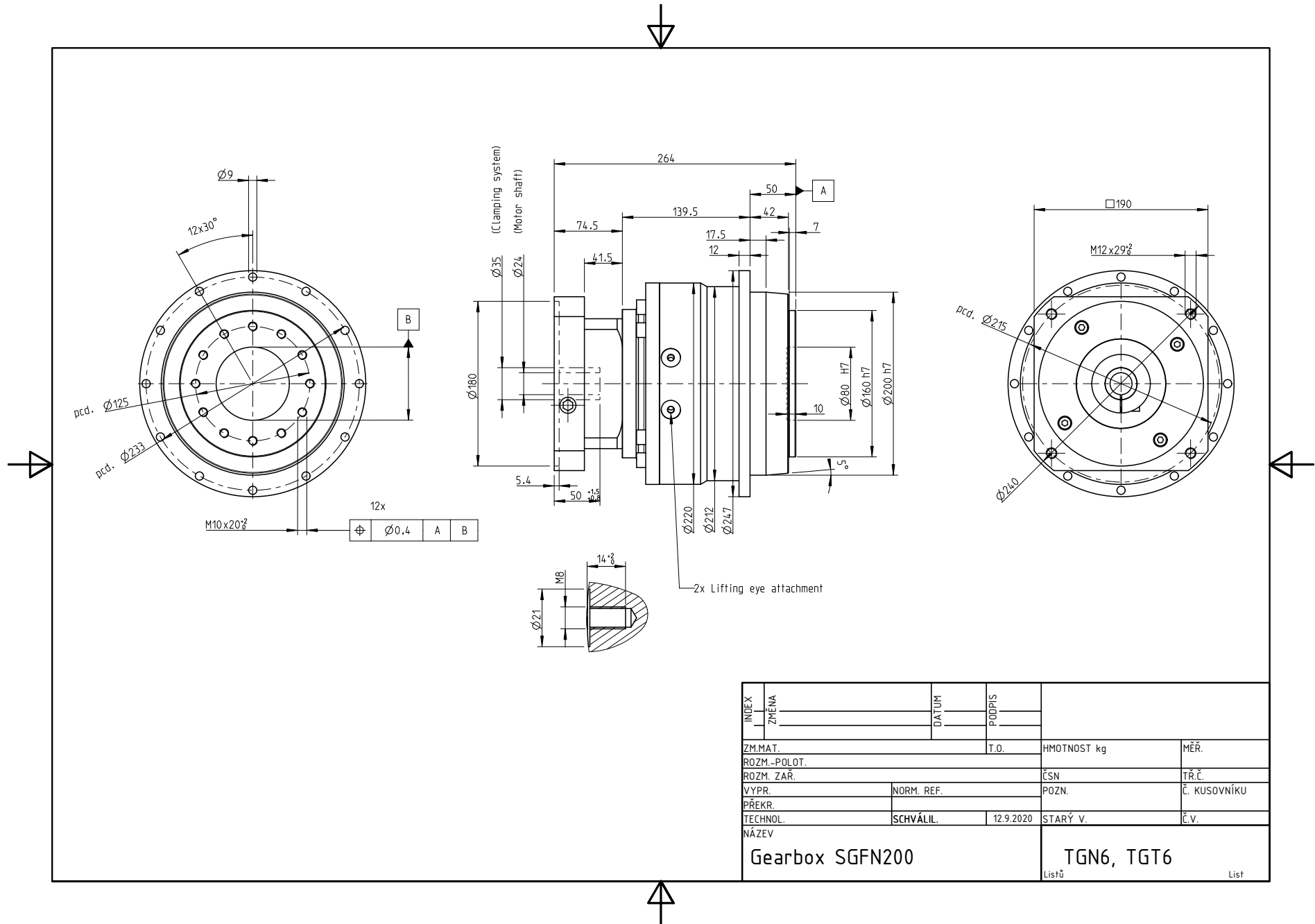
M23, 8 poles, rotary


Connector 1 (283)

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







INDEX	ZMĚNA	DATUM	PODPIS		
ZM.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
ROZM. ZAŘ.				ČSN	TR.Č.
VYPR.	NORM. REF.			POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.	SCHVÁLIL.	12.9.2020		STARÝ V.	Č.V.
NÁZEV	Gearbox SGFN200			TGN6, TGT6	
				Listů	
				List	