

Engineering motordata (WIN 1015)

DC bus voltage	24 V DC
Nominal AC voltage	17 V AC (rms)
Rated voltage	15 V AC (rms)
Rated power	503 W
Rated speed	3000 rpm
Rated torque	1.60 Nm
Rated current	24.21 A (rms)
Peak torque	5.2 Nm
Peak current	110.5 A (rms)
Stall torque	1.9 Nm
Stall current	27.5 A (rms)
No load speed	4060 rpm
EMF constant ±10%	4.2 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.07 Nm / A (rms)
Torque constant ±10% @ rated load	0.07 Nm / A (rms)
Number of poles	10
Electrical time constant	2.38 ms
Winding terminal resistance	0.042 Ω
Rotary field terminal inductance	0.1 mH

Customs info

HS Code	85015100
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Mechanical motor data (setting 30)

Max mechanical speed	12000 rpm
Mech. time constant	1.05 ms
Thermal time constant	30 min
Rotor inertia	0.7 kgcm ²
Protection	IP67
Color	EPOX3 (RAL 9005)
Cooling	Convection
Motor-only mass	2.2 kg

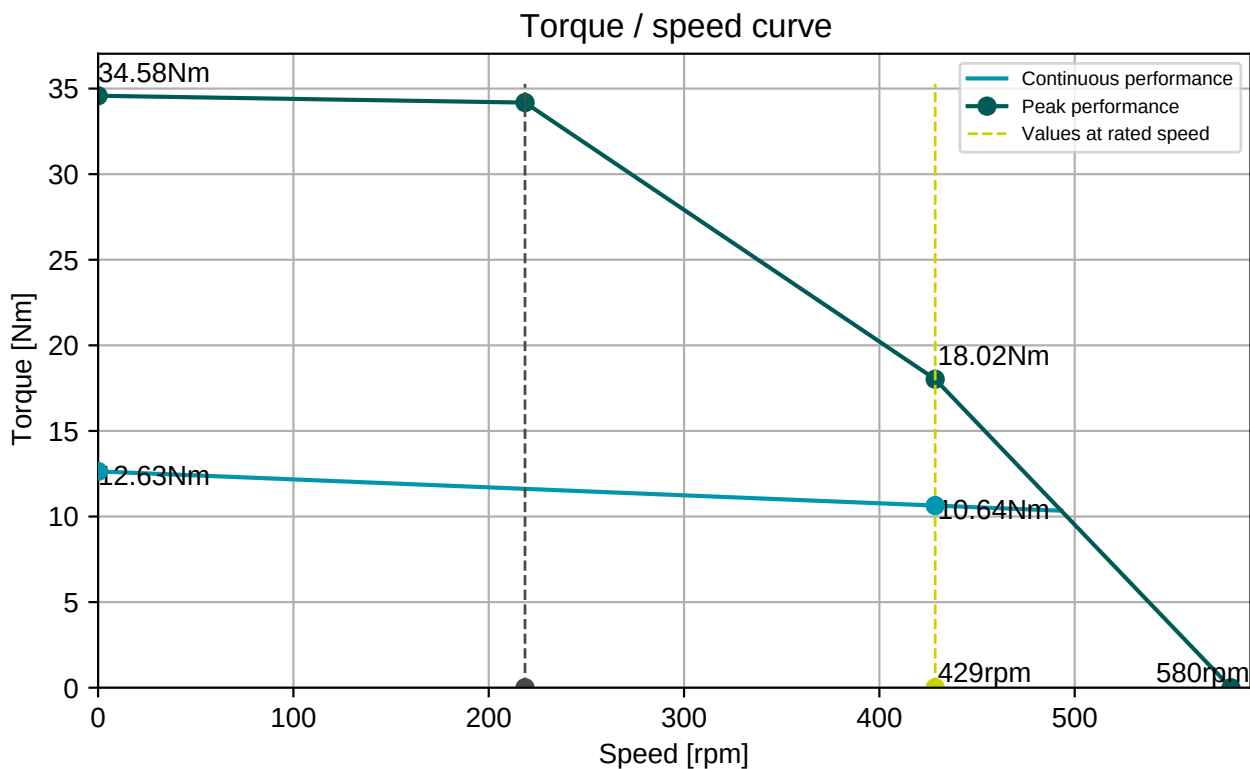
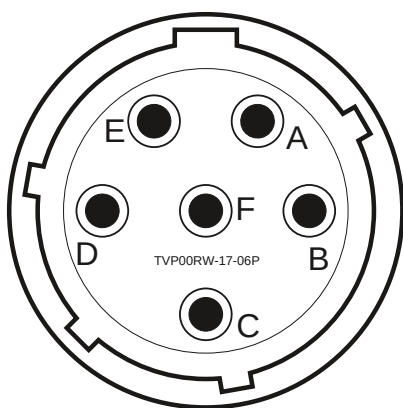
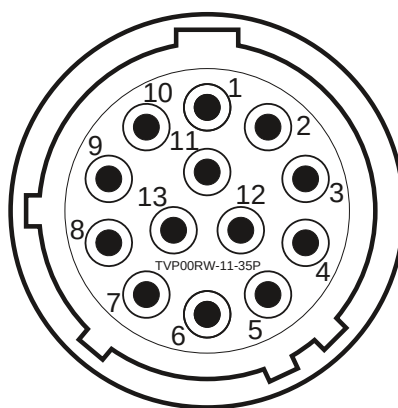
Sensors

Temperature	PT1000 {PT1000}
Feedback	ECN1123 (EnDat 2.2) single-turn, 23 bits

Brake

Braking torque	2.00 Nm
Voltage	24 V DC
Power @20°C	15.0 W
Current @20°C	0.63 A
Inertia	0.08 kgcm ²
Mass	0.25 kg

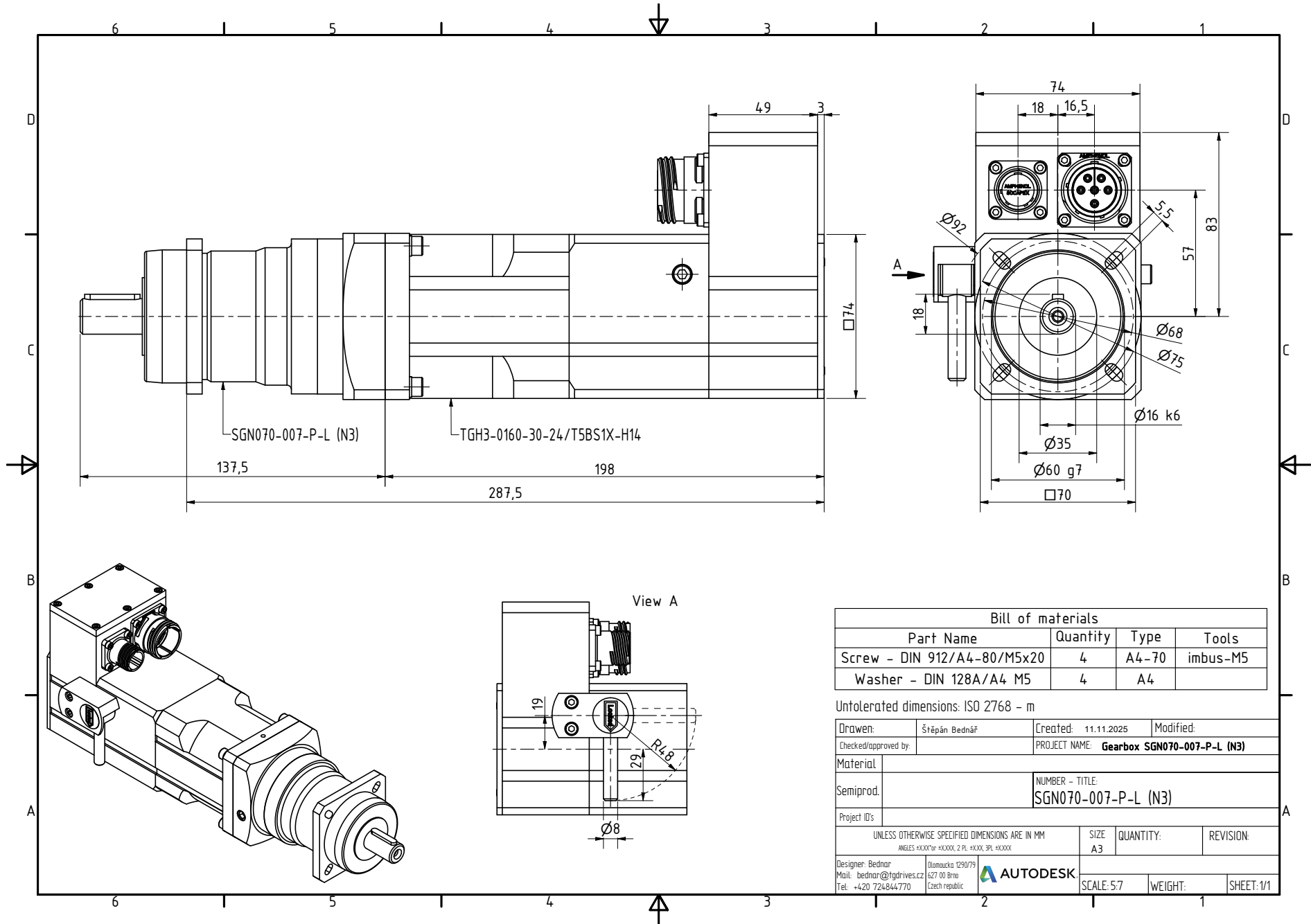
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	7	Radial force for 20'000h	3200 N*
Efficiency	95 %*	Radial force for 30'000h	3200 N*
Torsional stiffness	4 Nm/arcmin	Max. radial force	3200 N*
Number of stages	1	Axial force for 20'000h	4400 N
Rated output torque	22 Nm	Axial force for 30'000h	3900 N
Cycling output torque	39 Nm	Max. axial force	4400 N
Max output torque	59 Nm	Max. bending moment	18 Nm
Emergency output torque	80 Nm	Output shaft design	Shaft key
Rated input speed	3450 rpm	Mass	1.94 kg
Max input speed	4500 rpm	Input inertia	0.228 kgcm ²
Operating temperature	<-40; 90> °C	Protection	IP65
Max. backlash	< 3 arcmin	* Defined for point of action at ½ output shaft length	
Service life	20000 h		
* at rated speed & torque			
Lubrication		Actuator data	
Type	Low temperature	Rated speed	429 rpm
Lubricant	Klübersynth GH 6-32	Rated torque	10.64 Nm
		Cycling torque	34.58 Nm
		Peak torque	34.58 Nm
		Emergency stop torque	36.40 Nm
		EMF constant ±10%	29.4 V AC (rms) / 1000rpm
		Torque constant ±10% @ rated load	0.44 Nm / A (rms)
		Total mass	4.39 kg
		Output inertia	45.5 kgcm ²

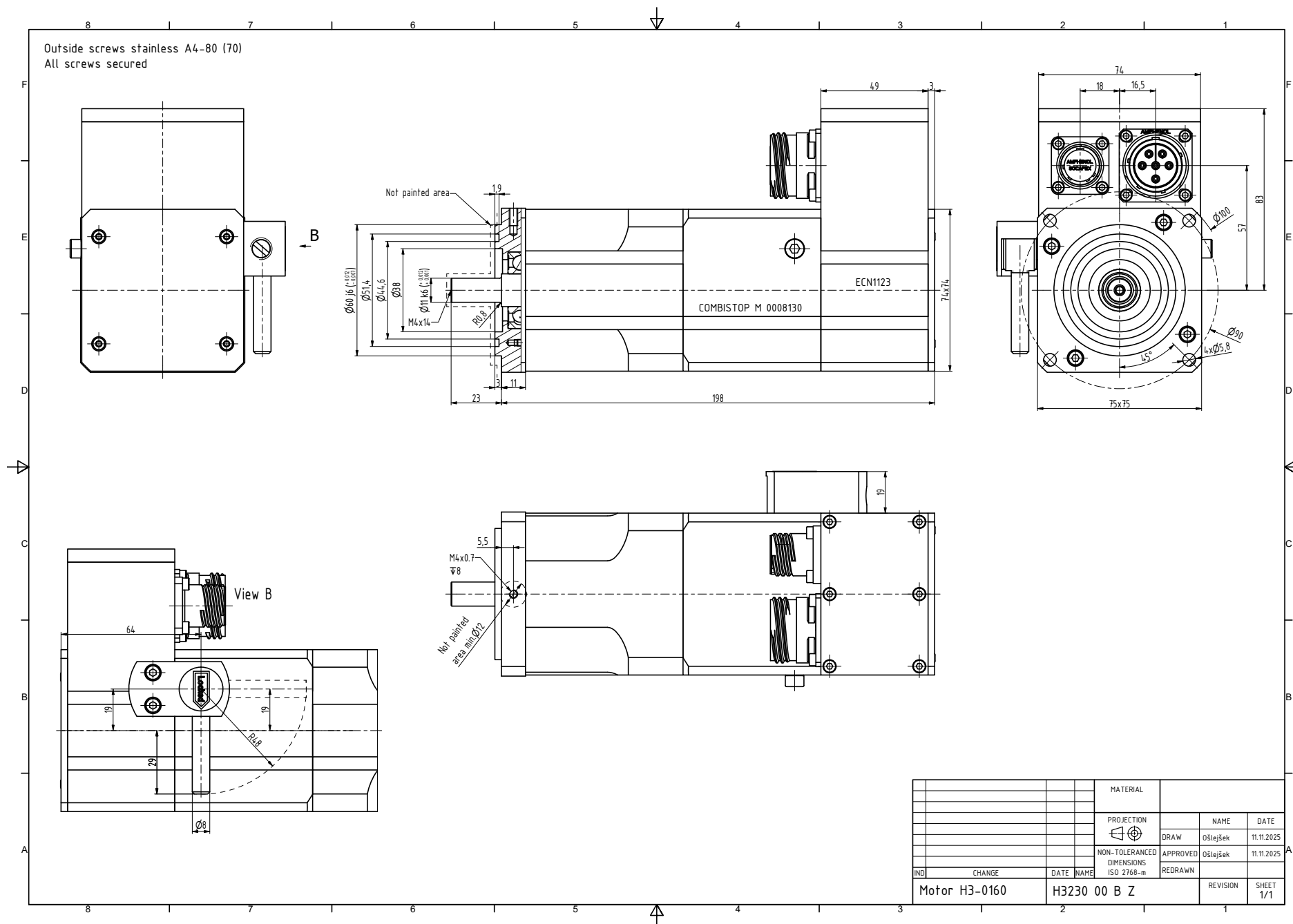

TVP00RW-17-06P

TVP00RW-11-35P

Connector 1 (202)

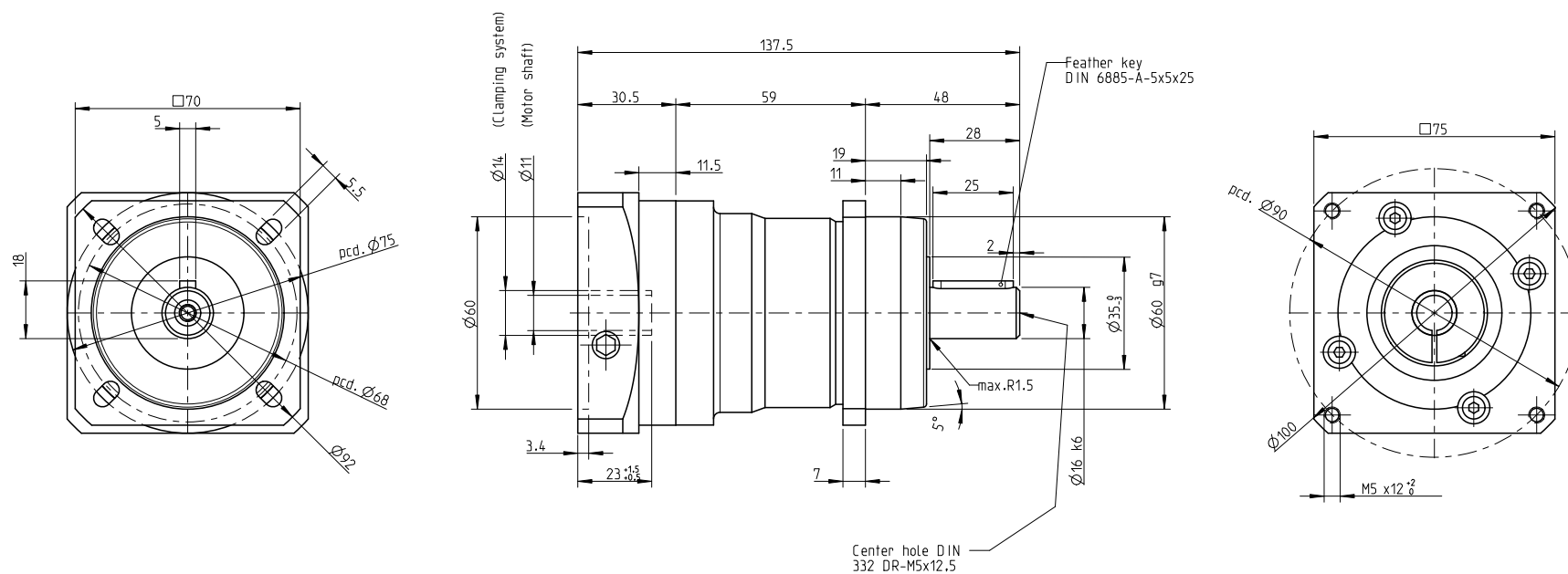
A	U
B	V
C	W
D	PE
E	Bremse +
F	Bremse -

Connector 2 (307)

1	Vcc (+5V)
2	GND
3	DATA
4	DATA-
5	CLOCK
6	CLOCK-
7	Therm+
8	Therm-
9	Vcc sensor
10	GND sensor







INDEX	ZMĚNA	DATUM	PODPIS		
ZM.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOH.					
ROZM. ZAR.			ČSN	TR.Č.	
VYPR.	NORM. REF.		POZN.	Č. KUSOVNÍKU	
PŘEKR.					
TECHNOL.	SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.	
NÁZEV					
Gearbox SGN070			TGN3, TGH3, TGT3		
			Lístů		
			Líst		