

Engineering motordata (WIN 1773)

DC bus voltage	54 V DC
Nominal AC voltage	38 V AC (rms)
Rated voltage	29 V AC (rms)
Rated power	788 W
Rated speed	3500 rpm
Rated torque	2.15 Nm
Rated current	17.8 A (rms)
Peak torque	8.1 Nm
Peak current	79.78 A (rms)
Stall torque	3.1 Nm
Stall current	24.92 A (rms)
No load speed	5050 rpm
EMF constant ±10%	7.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.12 Nm / A (rms)
Torque constant ±10% @ rated load	0.12 Nm / A (rms)
Number of poles	10
Electrical time constant	4.39 ms
Winding terminal resistance	0.066 Ω
Rotary field terminal inductance	0.29 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 30)

Max mechanical speed	9000 rpm
Mech. time constant	1.24 ms
Thermal time constant	35 min
Rotor inertia	1.67 kgcm ²
Protection	IP65
Color	EPOX3 (RAL 9005)
Cooling	Convection

Sensors

Temperature	UP72T150-140C {UP72T150-140C Uchiya}
Feedback	AD36/1222AF.0CBEB (Biss-C, multi-turn 12+22 bits, 5VDC)

Brake

Braking torque	5.00 Nm
Voltage	24 V DC
Power @20°C	18.8 W
Current @20°C	0.78 A
Inertia	0.14 kgcm ²
Mass	0.90 kg

Gearbox engineering data	
Gear ratio	64
Efficiency	87 %*
Torsional stiffness	10.4 Nm/arcmin
Number of stages	2
Rated output torque	80 Nm
Max output torque	128 Nm
Emergency output torque	200 Nm
Rated input speed	4000 rpm
Max input speed	9000 rpm
Operating temperature	<-40; 50> °C
Max. backlash	< 1 arcmin
Service life	20000 h

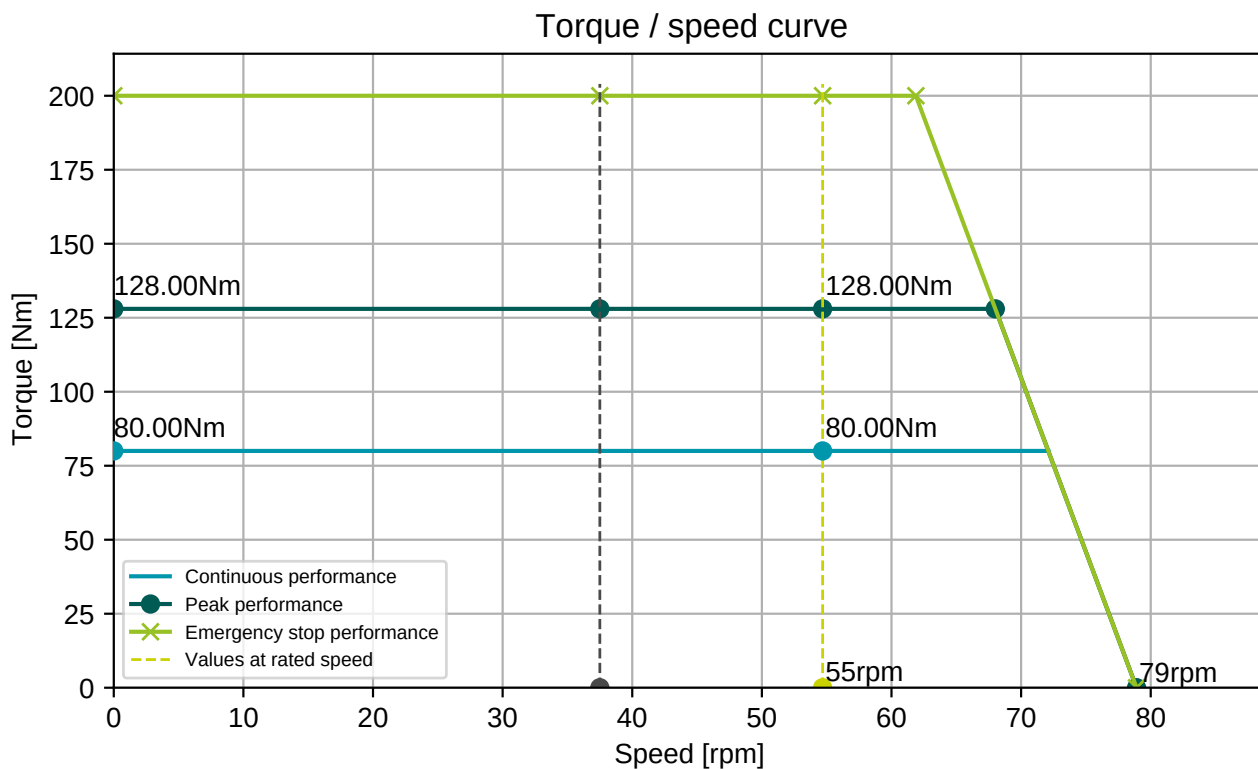
* at rated speed & torque

Lubrication	
Type	Low temperature
Lubricant	Klübersynth GH 6-32

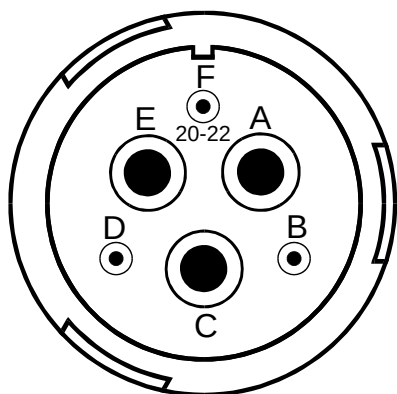
Gearbox mechanical data	
Max. radial force	4500 N*
Max. axial force	5500 N
Output shaft design	Shaft key
Mass	4.5 kg
Input inertia	0.557 kgcm ²
Protection	IP65

* Defined for point of action at ½ output shaft length

Actuator data	
Rated speed	55 rpm
Rated torque	80.00 Nm
Peak torque	128.00 Nm
Emergency stop torque	200.00 Nm
EMF constant ±10%	480.0 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	6.73 Nm / A (rms)
Output inertia	9121.8 kgcm ²

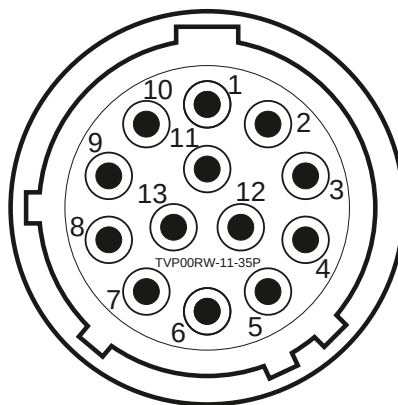


CA3102E20-22P-B-F80-A232



Connector 1 (468)

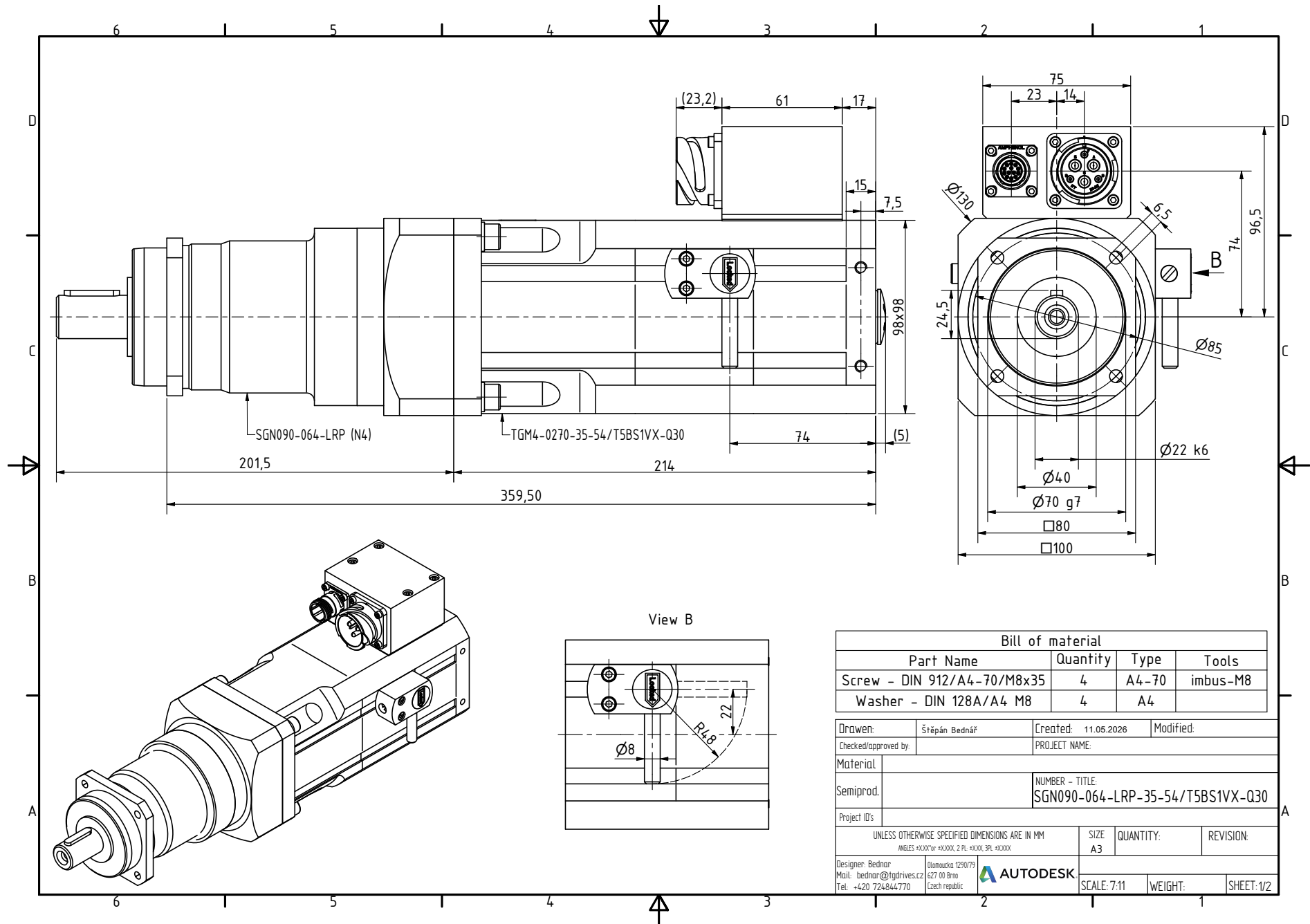
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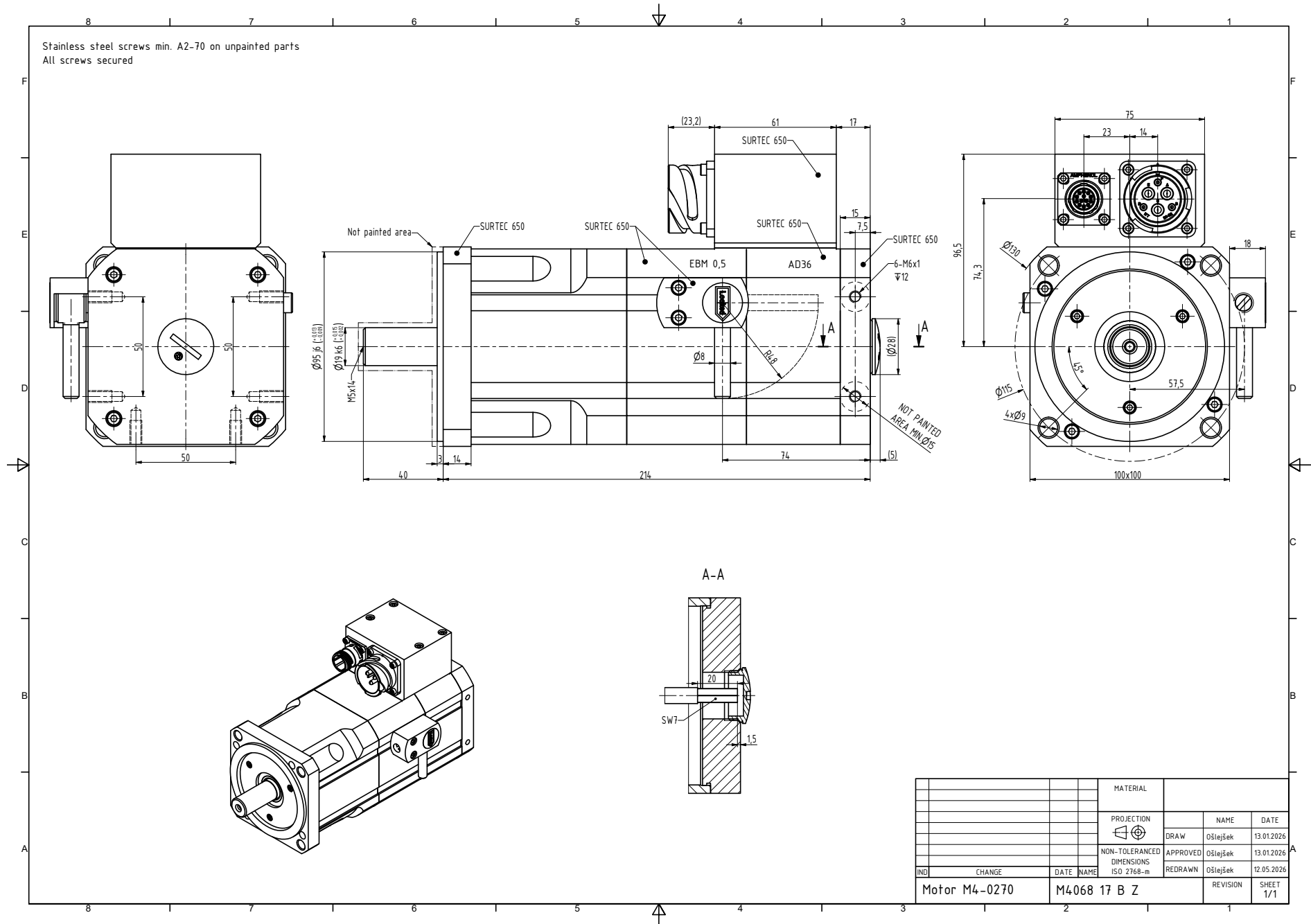


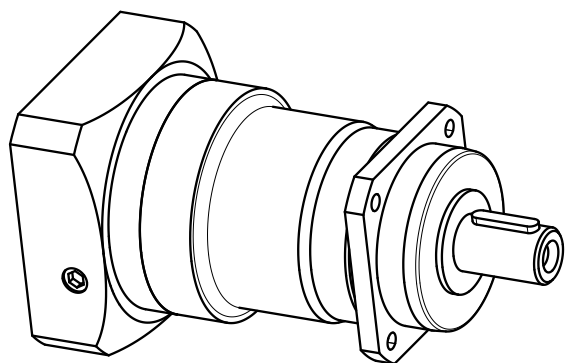
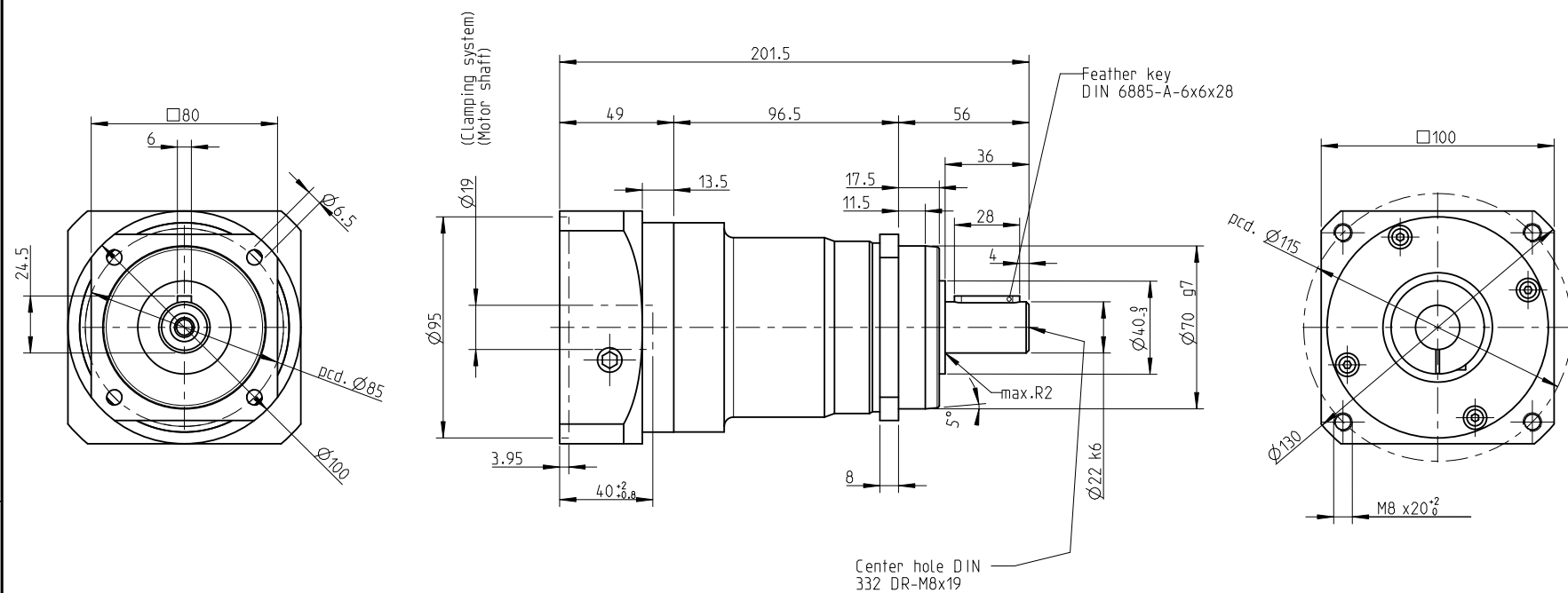
Connector 2 (551)

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

1	Vcc
2	GND
3	DATA+
4	DATA-
5	CLOCK+
6	CLOCK-
7	Therm+
8	Therm-
11	BRK_SNS_Up (5-30 VDC)
12	BRK_SNS_GND
13	BRK_SNS_HALL







INDEX	ZMĚNA	DATUM	PODPIS		
ZM.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
ROZM. ZAR.				ČSN	TR.Č.
VYPR.	NORM. REF.			POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.	SCHVÁLIL.	12.9.2020	STARÝ V.		Č.V.
NÁZEV			TGN4, TGH4, TGT4		
SGN090					
			Listů		
			List		