

Engineering motordata (WIN 711)

DC bus voltage	560 V DC
Nominal AC voltage	380 V AC (rms)
Rated voltage	277 V AC (rms)
Rated power	1.9 kW
Rated speed	3000 rpm
Rated torque	6.10 Nm
Rated current	5.14 A (rms)
Peak torque	22.5 Nm
Peak current	23.8 A (rms)
Stall torque	7.5 Nm
Stall current	5.2 A (rms)
No load speed	4350 rpm
EMF constant ±10%	87 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	1.44 Nm / A (rms)
Torque constant ±10% @ rated load	1.19 Nm / A (rms)
Number of poles	10
Electrical time constant	5.90 ms
Winding terminal resistance	2.29 Ω
Rotary field terminal inductance	13.5 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 5)

Max mechanical speed	9000 rpm
Mech. time constant	0.62 ms
Thermal time constant	30 min
Rotor inertia	3.26 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	4.7 kg

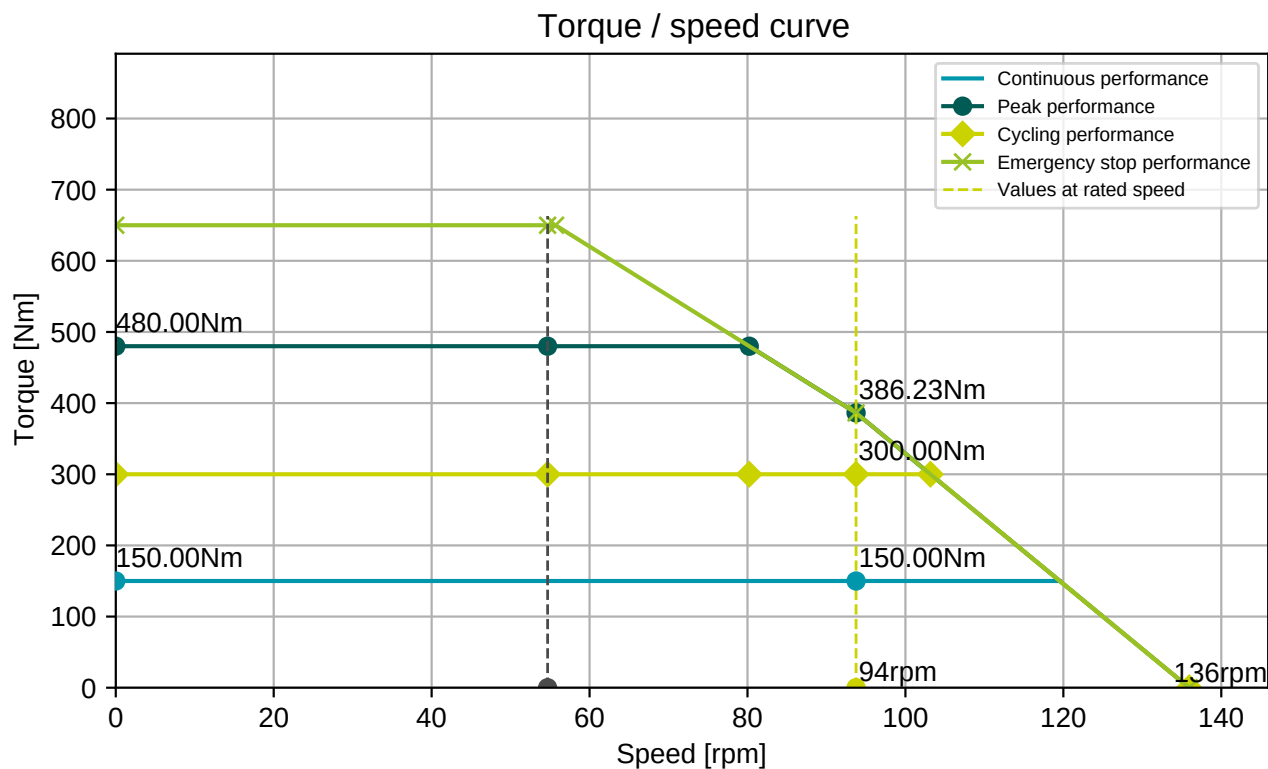
Sensors

Temperature	PTC 111-K13 {PTC 111-K13 Reissmann}
Feedback	2-pole resolver (ER5Kd411, TS2620N21E11, RE-15-1-A15)

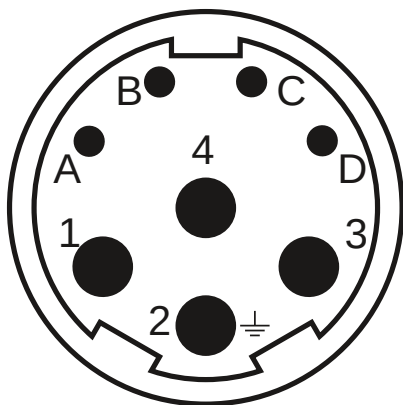
Brake

Braking torque	9.00 Nm
Voltage	24 V DC
Power @20°C	18.0 W
Current @20°C	0.75 A
Inertia	0.60 kgcm ²
Mass	0.82 kg

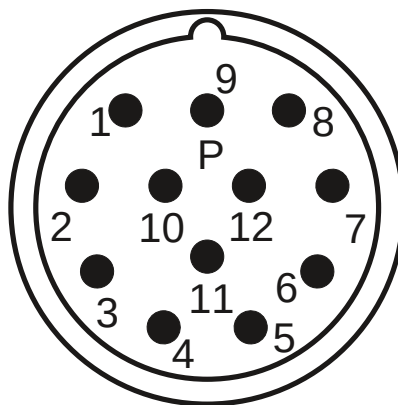
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	32	Radial force for 20'000h	6000 N*
Efficiency	94 %*	Axial force for 20'000h	8000 N
Torsional stiffness	25.5 Nm/arcmin	Output shaft design	Smooth shaft
Number of stages	2	Mass	8.77 kg
Rated output torque	150 Nm	Input inertia	1.967 kgcm ²
Cycling output torque	300 Nm	Protection	IP65
Max output torque	480 Nm	* Defined for point of action at ½ output shaft length	
Emergency output torque	650 Nm	Actuator data	
Rated input speed	3500 rpm	Rated speed	94 rpm
Max input speed	8500 rpm	Rated torque	150.00 Nm
Operating temperature	<-25; 90> °C	Cycling torque	300.00 Nm
Max. backlash	< 5 arcmin	Peak torque	480.00 Nm
Service life	20000 h	Emergency stop torque	650.00 Nm
* at rated speed & torque		EMF constant ±10%	2784.0 V AC (rms) / 1000rpm
Lubrication		Torque constant ±10% @ rated load	35.70 Nm / A (rms)
Type	Standard	Total mass	14.29 kg
Lubricant	Castrol Optigear Synthetic 800/150	Output inertia	5352.4 kgcm ²


BGC110N00001216000

M23, 8 poles, rotary


AGC052N00001215000

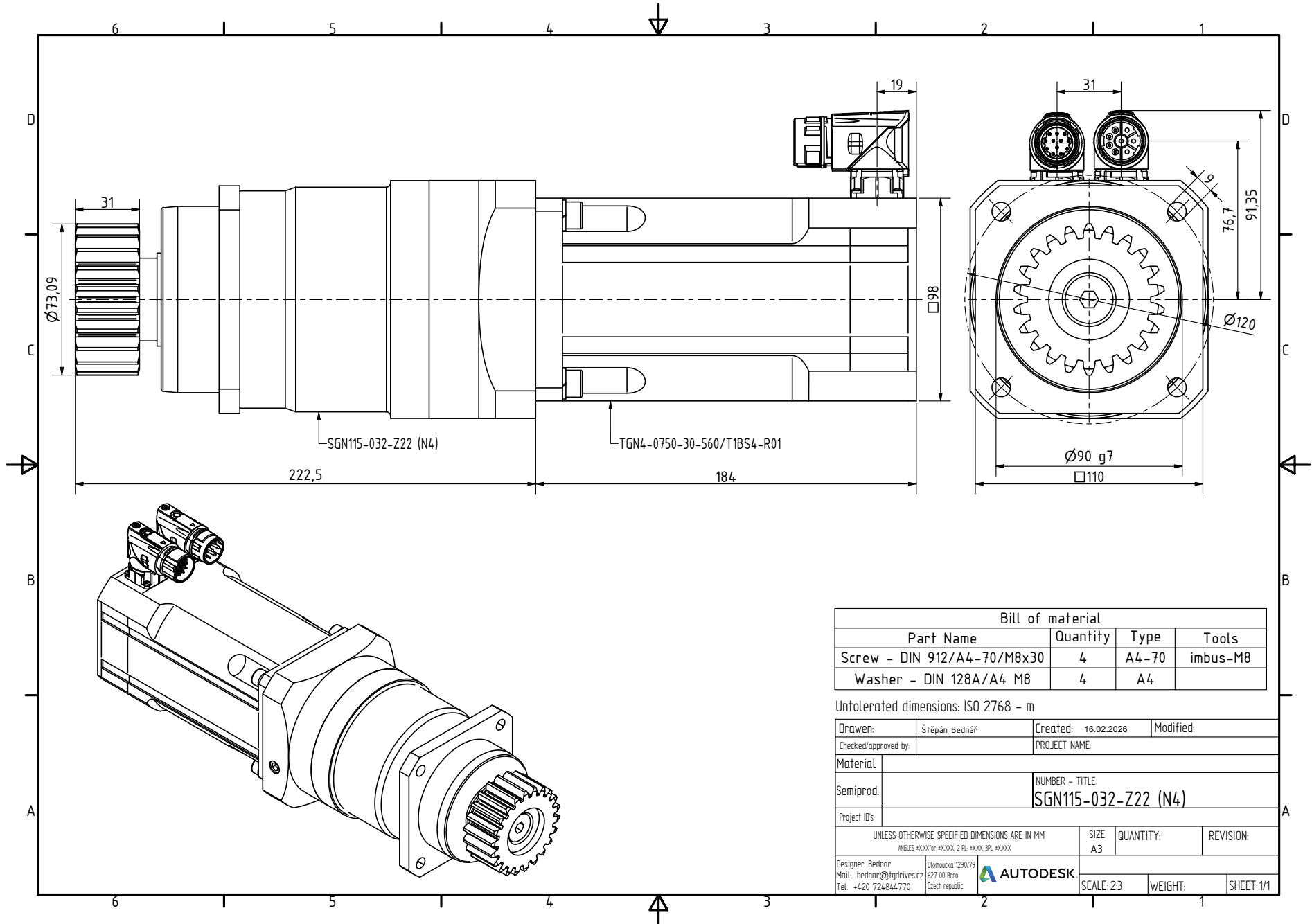
M23, 12 poles, rotary

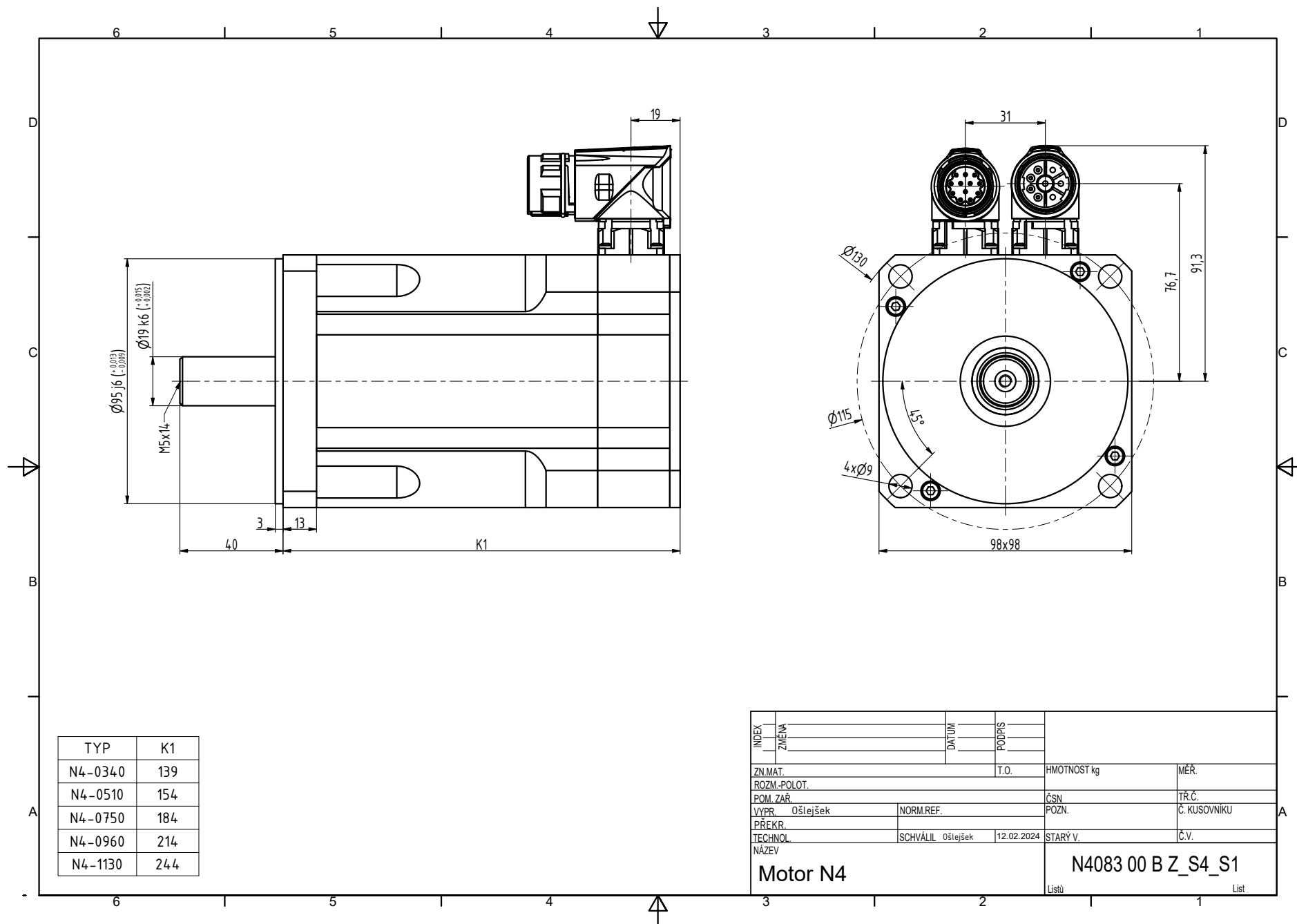

Connector 1 (9)

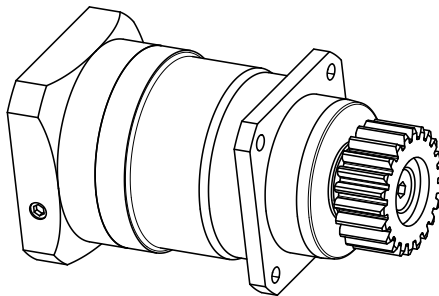
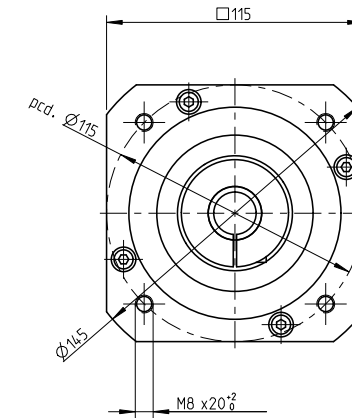
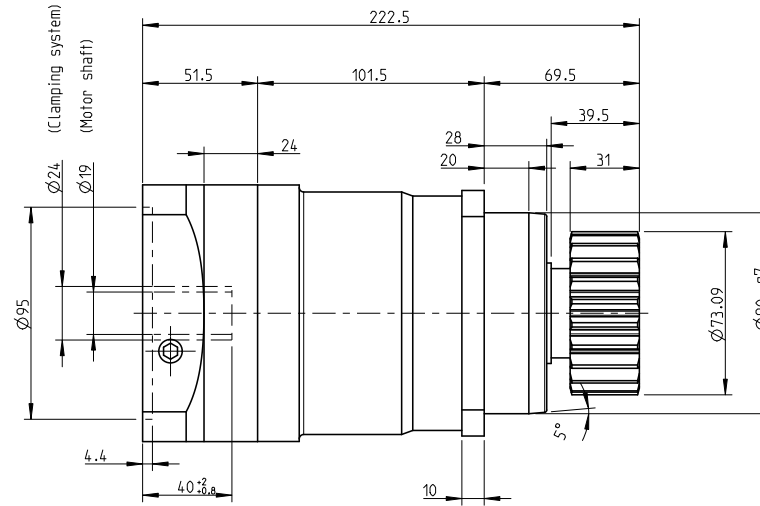
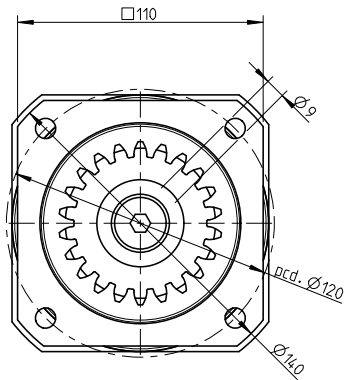
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	
D	

Connector 2 (10)

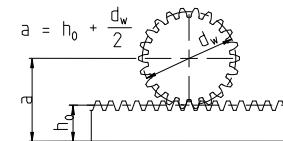
2	Therm+
3	S4
4	S3
5	R2
6	Therm-
7	S2
8	S1
9	R1







Center distance a in mm:



Pinion data	Character	Unit	
Module	m_n	mm	3
Number of teeth	z_n	-	22
Helix angle	β	°	0
Flank direction	R	-	straight
Pitch circle diameter	d_n	mm	66
Profile modification factor	x	-	0.2
Operating pitch circle diameter (7)	d_w	mm	67.2
Quality	Q	-	6
Max. feed force (6)	F_v	N	12030
Max. feed speed	v	m/min	55
Pinion weight	m_p	kg	0.71
Mass moment of inertia of pinion	J_p	kgcm ²	4.58

INDEX	ZMENA	DATUM	PODPIS	
ZM.MAT.		T.O.	HMOTNOST kg	MEŘ.
ROZM.-POLOT.				
ROZM. ZAR.			ČSN	TR.Č.
VYPR.	NORM. REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.				
TECHNOL.	SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.
NÁZEV	Gearbox SGN115			TGN4, TGH4, TGT4
	Listů			List