

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	4.50 Nm
Voltage	24 V DC
Power @20°C	12.0 W
Current @20°C	0.50 A
Inertia	0.20 kgcm ²
Mass	0.47 kg

Gearbox engineering data

Gear ratio	35
Efficiency	90 %*
Torsional stiffness	14.6 Nm/arcmin
Number of stages	2
Rated output torque	205 Nm
Cycling output torque	255 Nm
Max output torque	405 Nm
Emergency output torque	650 Nm
Rated input speed	1900 rpm
Max input speed	14000 rpm
Operating temperature	<-25; 90> °C
Max. backlash	< 5 arcmin
Service life	20000 h

* at rated speed & torque

Lubrication

Type	Standard
Lubricant	Grease (lifetime lubrication)

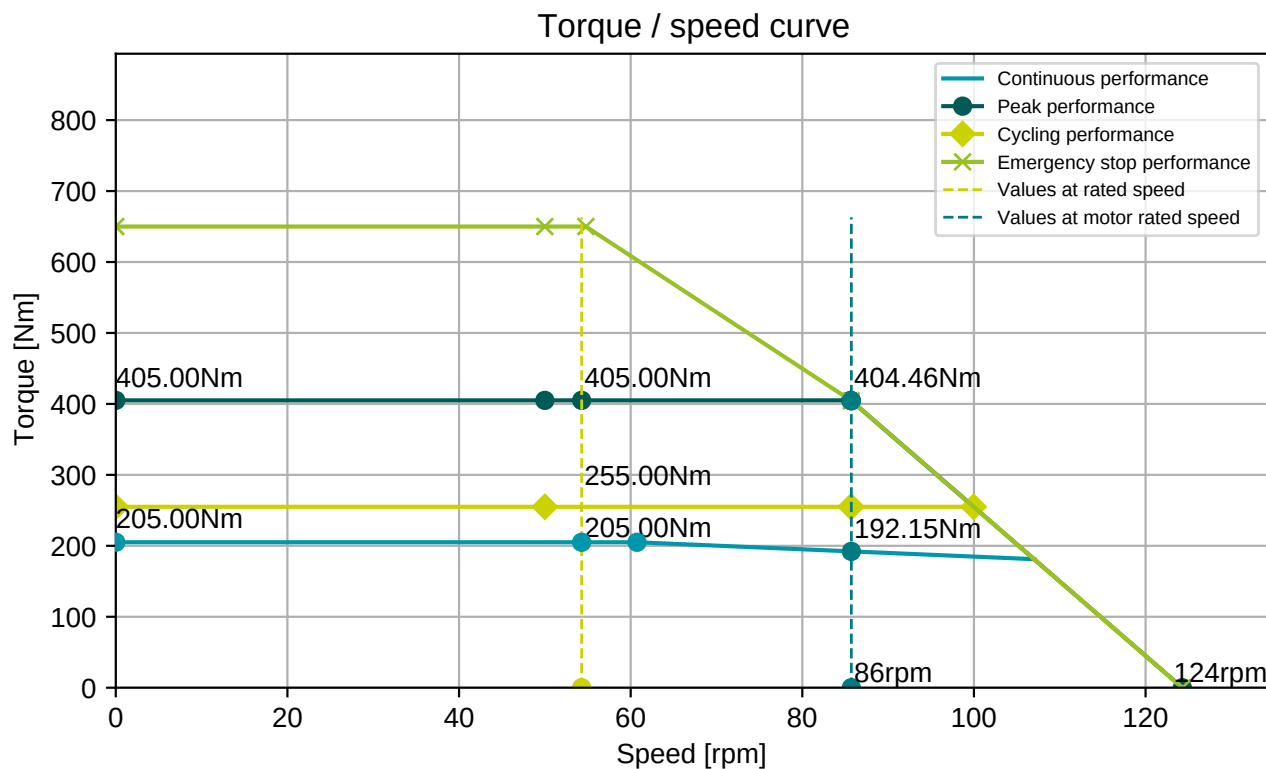
Gearbox mechanical data

Radial force for 20'000h	6000 N*
Axial force for 20'000h	6500 N
Output shaft design	Shaft key
Mass	10.6 kg
Input inertia	1.093 kgcm ²
Protection	IP65

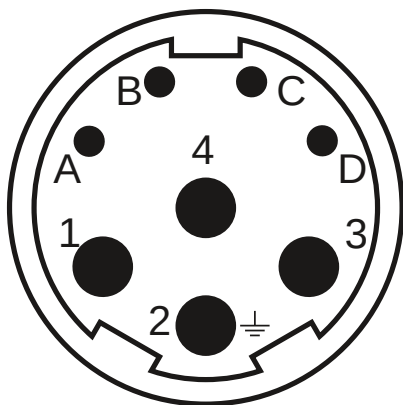
* Defined for point of action at ½ output shaft length

Actuator data

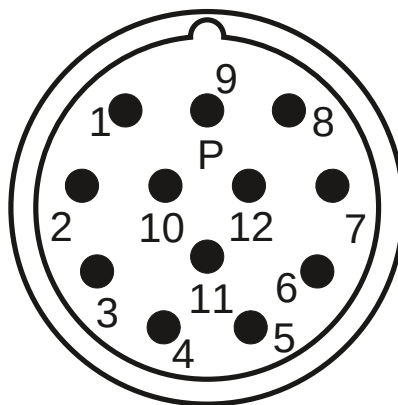
Rated speed	54 rpm
Rated torque	205.00 Nm
Cycling torque	255.00 Nm
Peak torque	405.00 Nm
Emergency stop torque	650.00 Nm
EMF constant ±10%	3045.0 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	37.38 Nm / A (rms)
Total mass	15.77 kg
Output inertia	5332.4 kgcm ²


BGC110N00001216000

M23, 8 poles, rotary


AGC052N00001215000

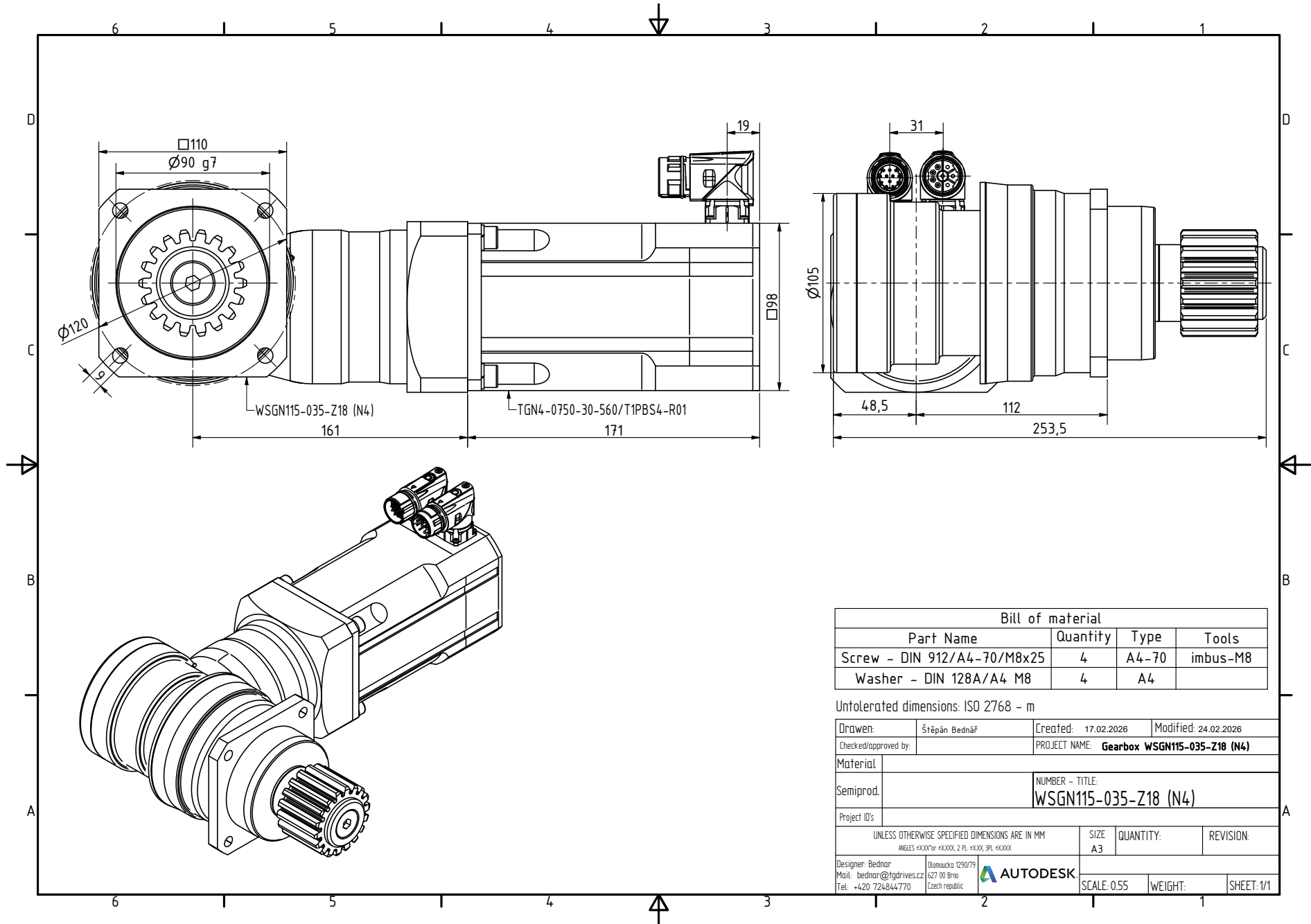
M23, 12 poles, rotary

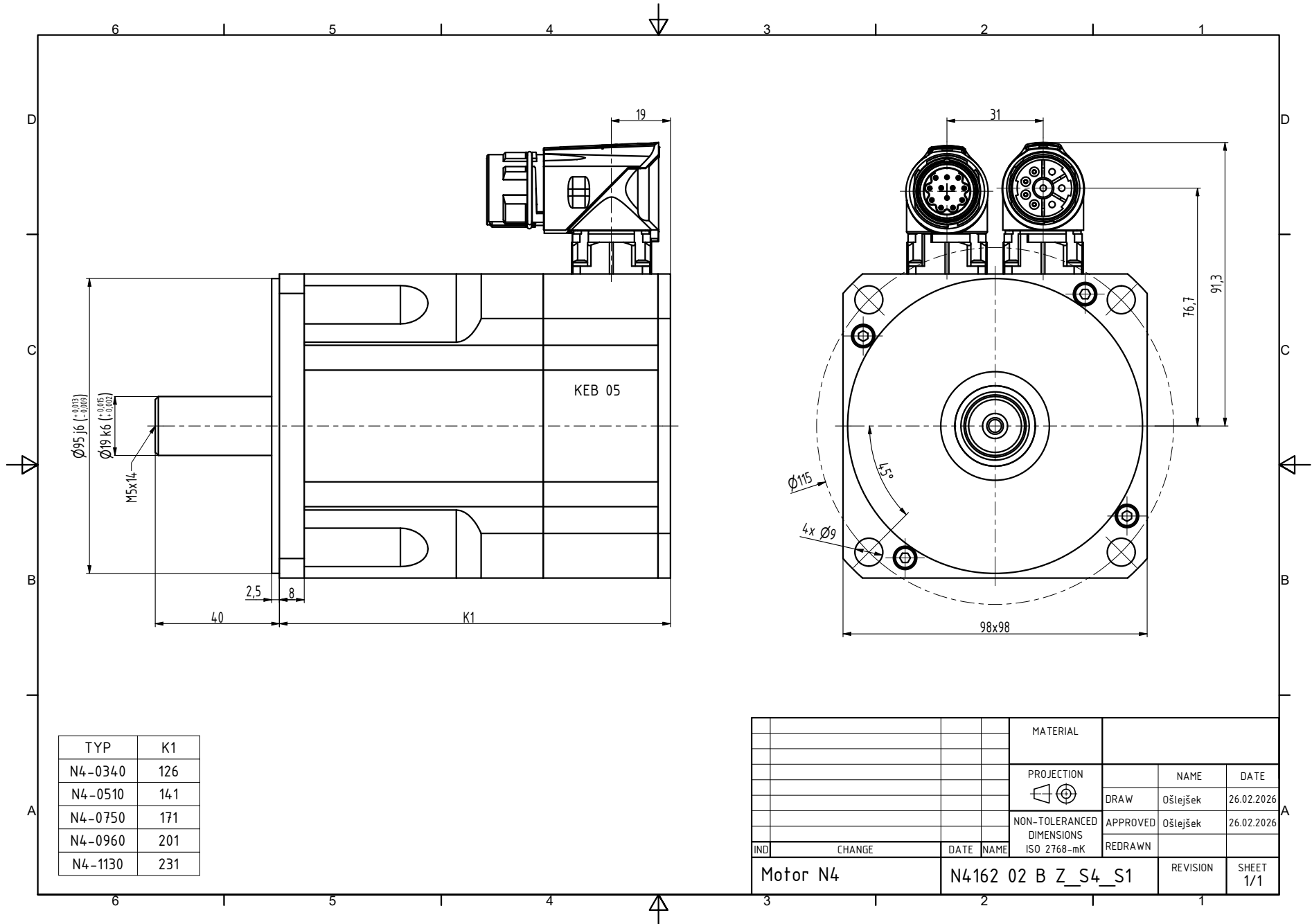

Connector 1 (9)

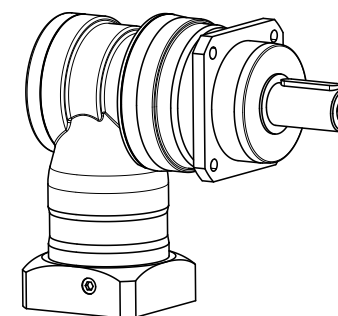
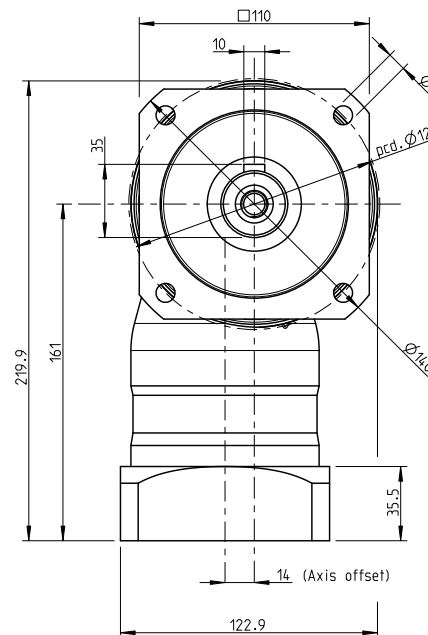
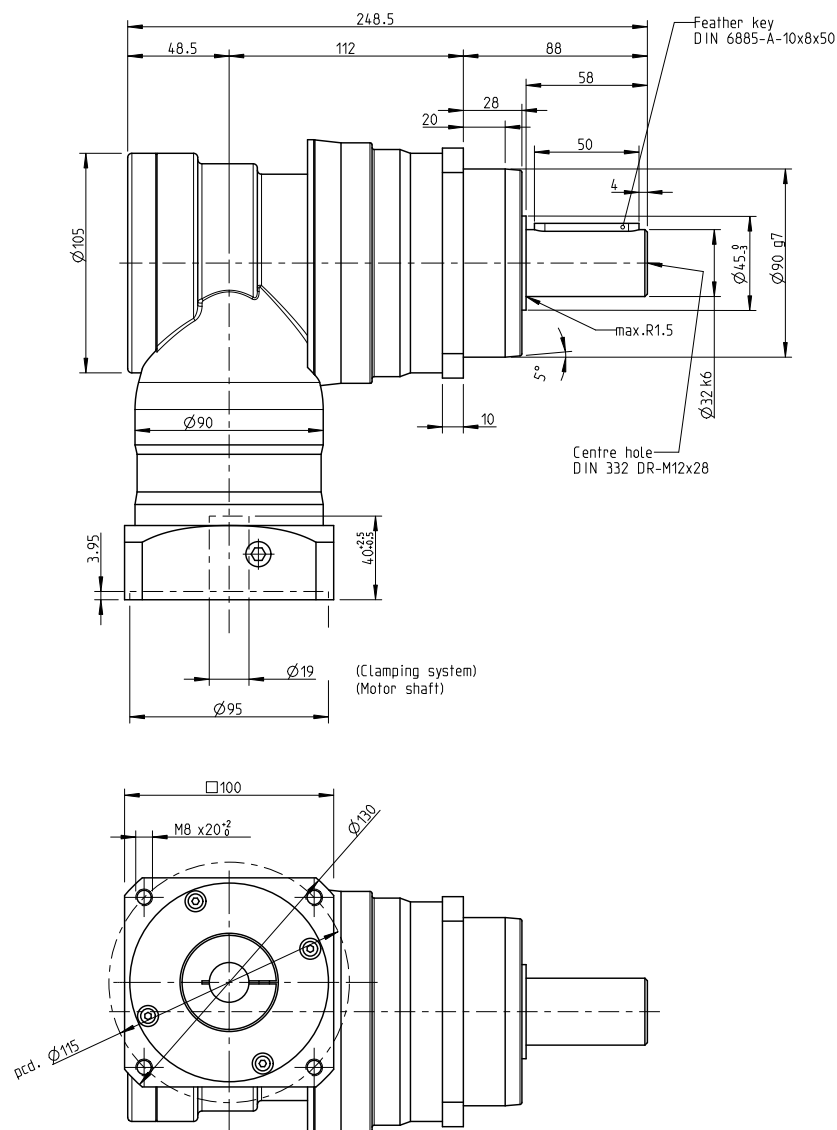
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	
D	

Connector 2 (10)

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







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	
Gearbox WSGN115				Listů List	