

Engineering motordata (WIN 924)

DC bus voltage	560 V DC
Nominal AC voltage	380 V AC (rms)
Rated voltage	278 V AC (rms)
Rated power	2.8 kW
Rated speed	4000 rpm
Rated torque	6.70 Nm
Rated current	7.26 A (rms)
Peak torque	28.8 Nm
Peak current	28.8 A (rms)
Stall torque	9.6 Nm
Stall current	7.7 A (rms)
No load speed	5050 rpm
EMF constant ±10%	75 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	1.24 Nm / A (rms)
Torque constant ±10% @ rated load	0.92 Nm / A (rms)
Number of poles	10
Electrical time constant	5.87 ms
Winding terminal resistance	1.21 Ω
Rotary field terminal inductance	7.1 mH

Mechanical motor data (setting 48)

Max mechanical speed	9000 rpm
Mech. time constant	0.61 ms
Thermal time constant	35 min
Rotor inertia	4.49 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Max. axial force 20kh	119 N
Max. radial force 20kh	626 N*
Max. axial force 100kh	70 N
Max. radial force 100kh	366 N*

* Defined for point of action at ½ output shaft length

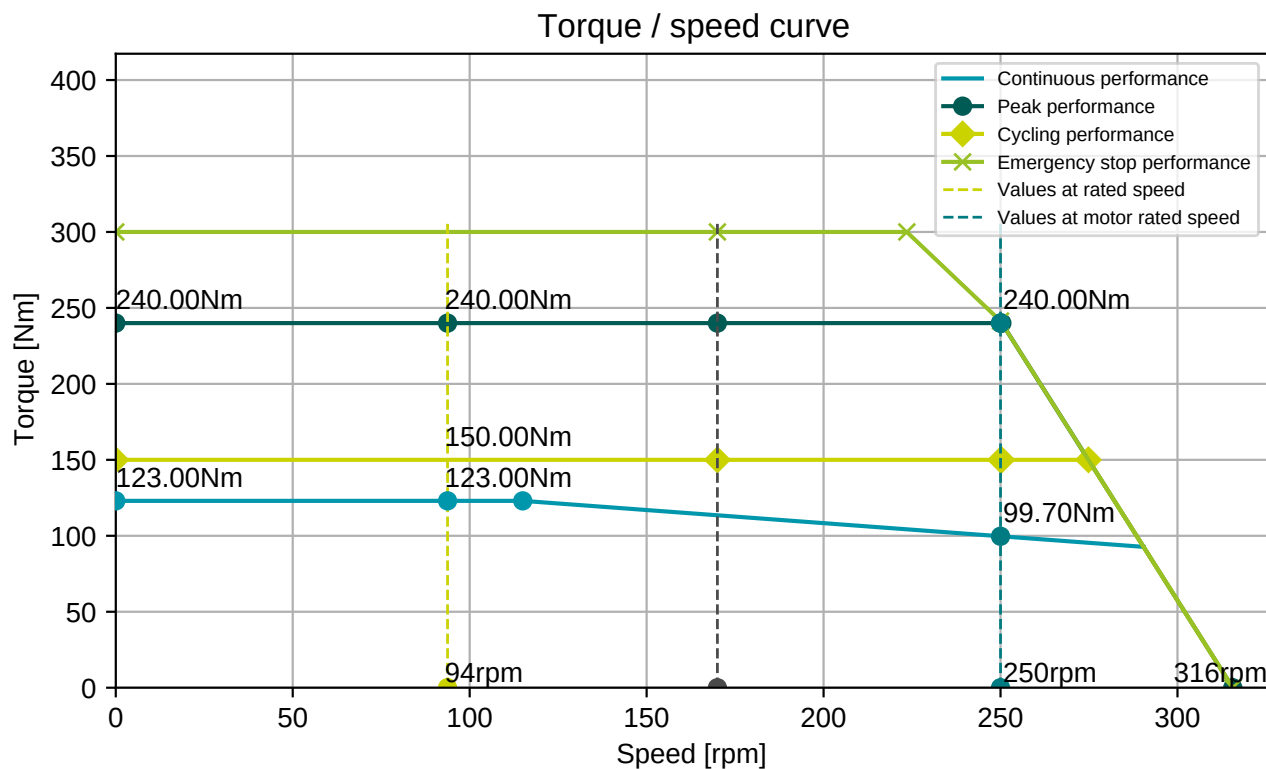
Sensors

Temperature	PT1000 {PT1000}
Feedback	EKM36 (HDSL) multi-turn, 17 + 12 bits

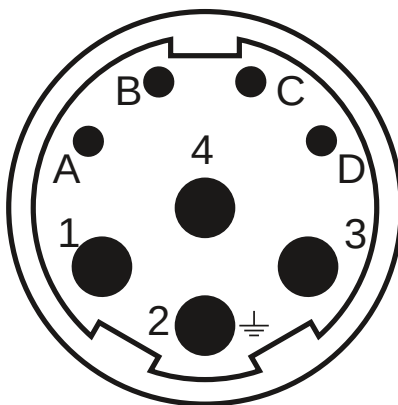
Customs info

HS Code	85015220
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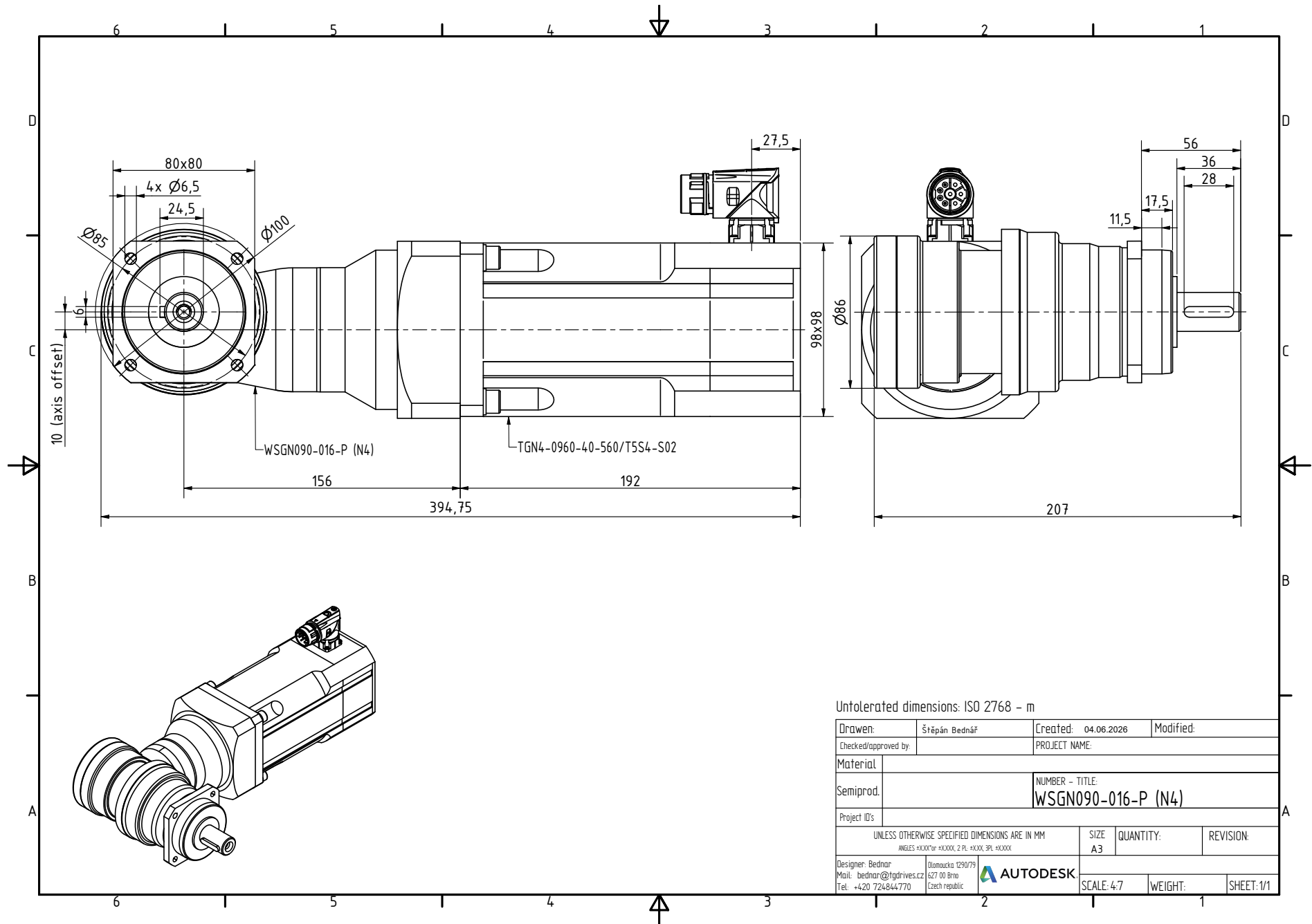
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	16	Radial force for 20'000h	5000 N*
Efficiency	93 %*	Axial force for 20'000h	4500 N
Torsional stiffness	7.8 Nm/arcmin	Output shaft design	Shaft key
Number of stages	2	Mass	6.1 kg
Rated output torque	123 Nm	Input inertia	0.887 kgcm ²
Cycling output torque	150 Nm	Protection	IP65
Max output torque	240 Nm	* Defined for point of action at ½ output shaft length	
Emergency output torque	300 Nm	Actuator data	
Rated input speed	1500 rpm	Rated speed	94 rpm
Max input speed	16000 rpm	Rated torque	123.00 Nm
Operating temperature	<-25; 90> °C	Cycling torque	150.00 Nm
Max. backlash	< 5 arcmin	Peak torque	240.00 Nm
Service life	20000 h	Emergency stop torque	300.00 Nm
* at rated speed & torque		EMF constant ±10%	1200.0 V AC (rms) / 1000rpm
Lubrication		Torque constant ±10% @ rated load	13.73 Nm / A (rms)
Type	Standard	Output inertia	1376.5 kgcm ²
Lubricant	Grease (lifetime lubrication)		


BGC110N00001216000

M23, 8 poles, rotary

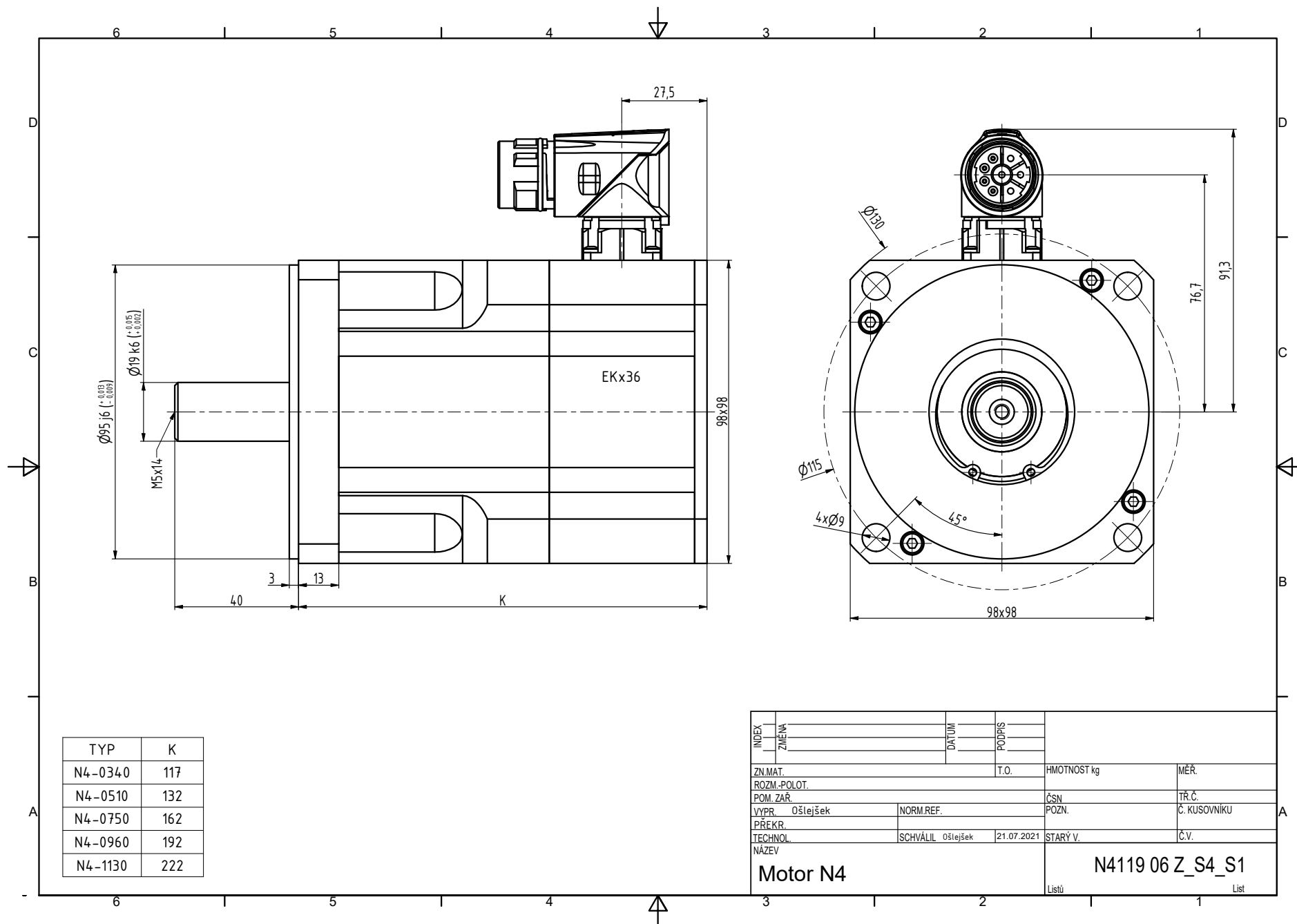

Connector 1 (283)

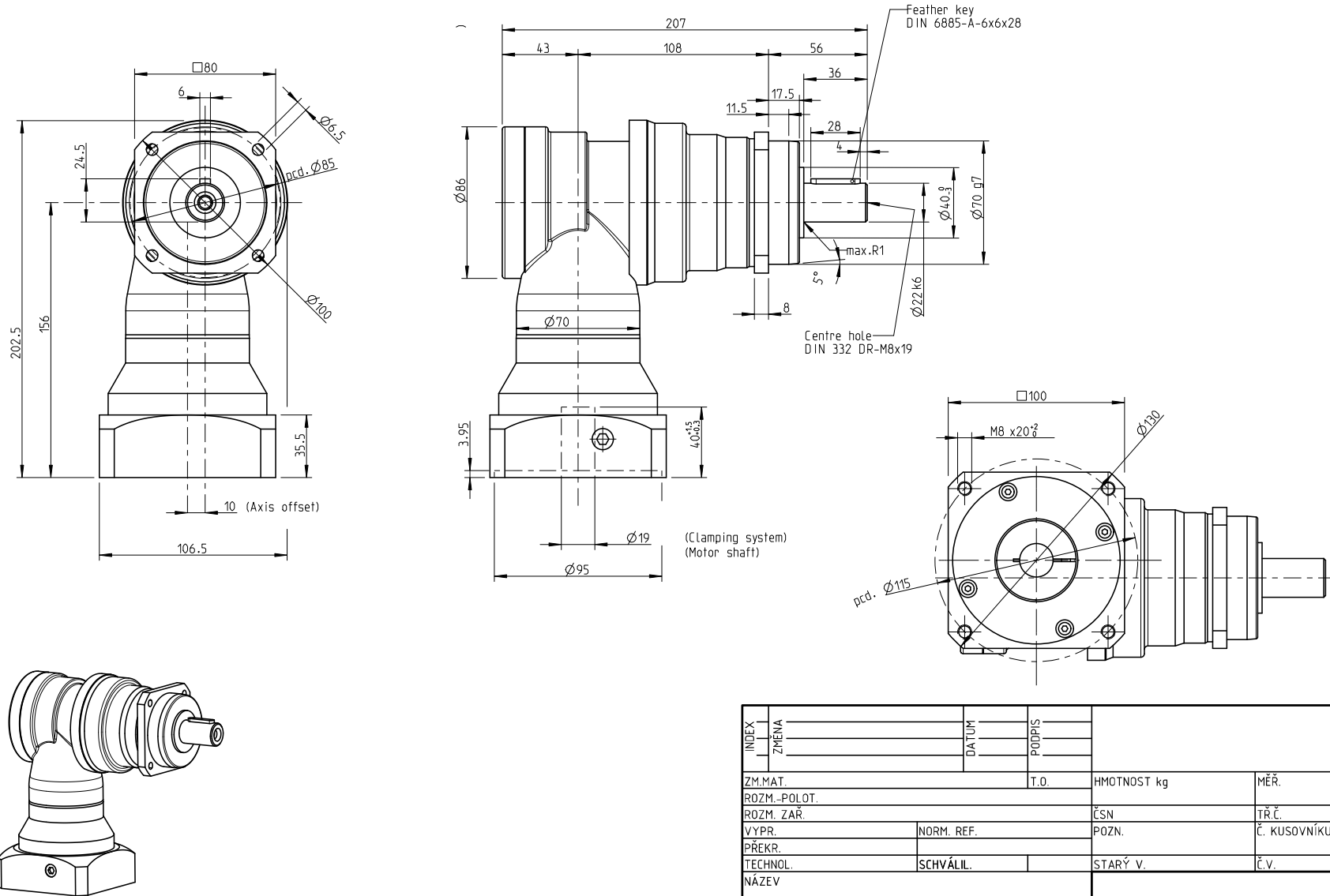
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	GND/DSL-
D	+Us/DSL+



Untolerated dimensions: ISO 2768 - m

Drawn:	Štěpán Bednář	Created:	04.06.2026	Modified:
Checked/approved by:		PROJECT NAME:		
Material:				
Semiprod.	NUMBER - TITLE: WSGN090-016-P (N4)			
Project ID's				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM ANGLES: °X'X" or °X'XXX, 2 PL: °XXX, 3 PL: °XXX		SIZE A3	QUANTITY:	REVISION:
Designer: Bednar	Olomoucka 1290/79	 AUTODESK		
Mail: bednar@tgdrives.cz	627 00 Brno			
Tel: +420 724844770	Czech republic			
		SCALE: 4:7	WEIGHT:	SHEET: 1/1





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.			STARÝ V.	Č.V.
NÁZEV					
Gearbox WSGN090					
				Listů	List