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

Mechanical motor data (setting 48)		
Max mechanical speed	9000	rpm
Mech. time constant	0.62	ms
Thermal time constant	30	min
Rotor inertia	3.26	kgcm²
Protection	IP64	
Color	RAL 9005	
Cooling	Convection	
Motor-only mass	4.7	kg
Max. axial force 20kh	124	N
Max. radial force 20kh*	653	N
Max. axial force 100kh	73	N
Max. radial force 100kh*	382	N

** Defined for point of action at ½ output shaft length*

Sensors	
Temperature	PT1000 {PT1000}
Feedback	EKS36 (HDSL) single-turn, 17 bits

Gearbox engineering data		
Gear ratio	32	
Efficiency*	95	%
Torsional stiffness	10.4	Nm/arcmin
Number of stages	2	
Rated output torque	102	Nm
Cycling output torque	120	Nm
Max output torque	192	Nm
Emergency output torque	240	Nm
Rated input speed	4000	rpm
Max input speed	7000	rpm
Operating temperature	<-25; 90>	°C
Max. backlash	< 9	arcmin
Service life	20000	h

** at rated speed & torque*

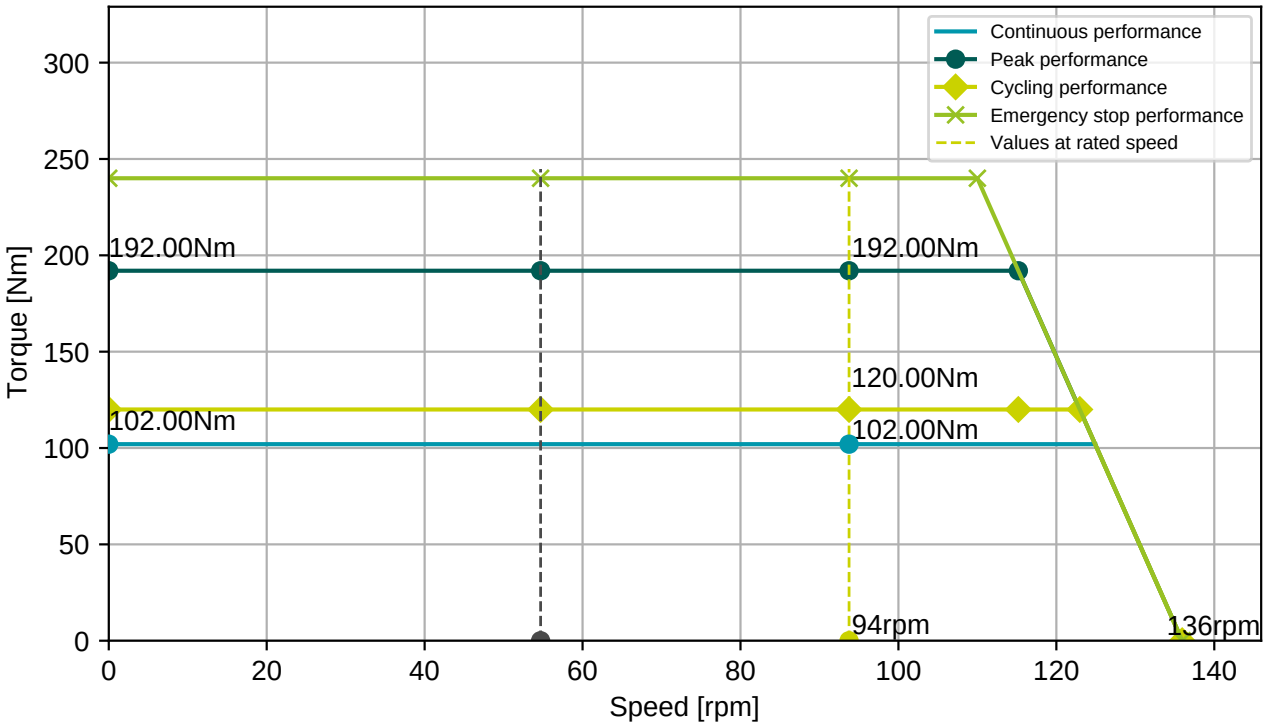
Lubrication	
Type	Standard
Lubricant	Grease (lifetime lubrication)

Gearbox mechanical data		
Radial force for 20'000h*	750	N
Radial force for 30'000h*	650	N
Max. radial force*	1250	N
Axial force for 20'000h	1000	N
Axial force for 30'000h	900	N
Max. axial force	1600	N
Tilting moment for 20'000h	31	Nm
Tilting moment for 30'000h	27	Nm
Max. bending moment	16	Nm
Output shaft design	Shaft key	
Mass	2.63	kg
Input inertia	0.366	kgcm²
Protection	IP54	

** Defined for point of action at ½ output shaft length*

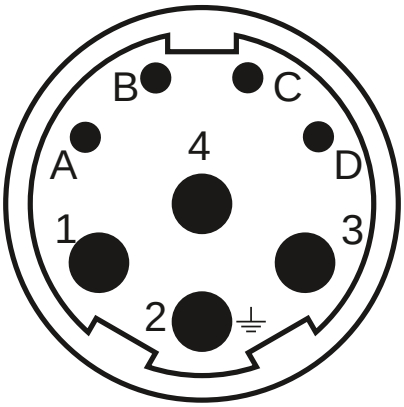
Actuator data		
Rated speed	94	rpm
Rated torque	102.00	Nm
Cycling torque	120.00	Nm
Peak torque	192.00	Nm
Emergency stop torque	240.00	Nm
EMF constant ±10%	2784.0	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	36.08	Nm / A (rms)
Total mass	7.33	kg
Output inertia	3713.0	kgcm²

Torque / speed curve

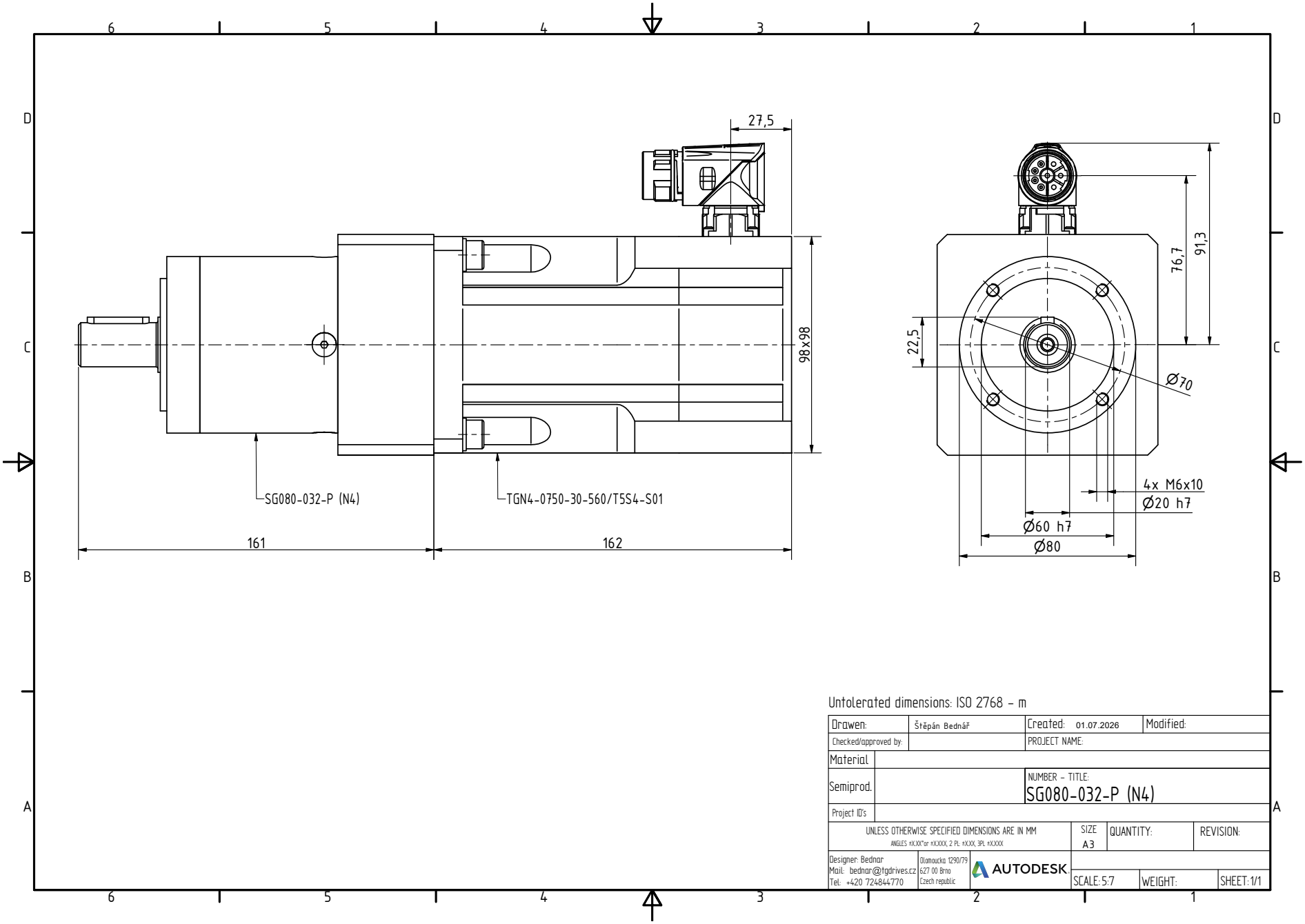


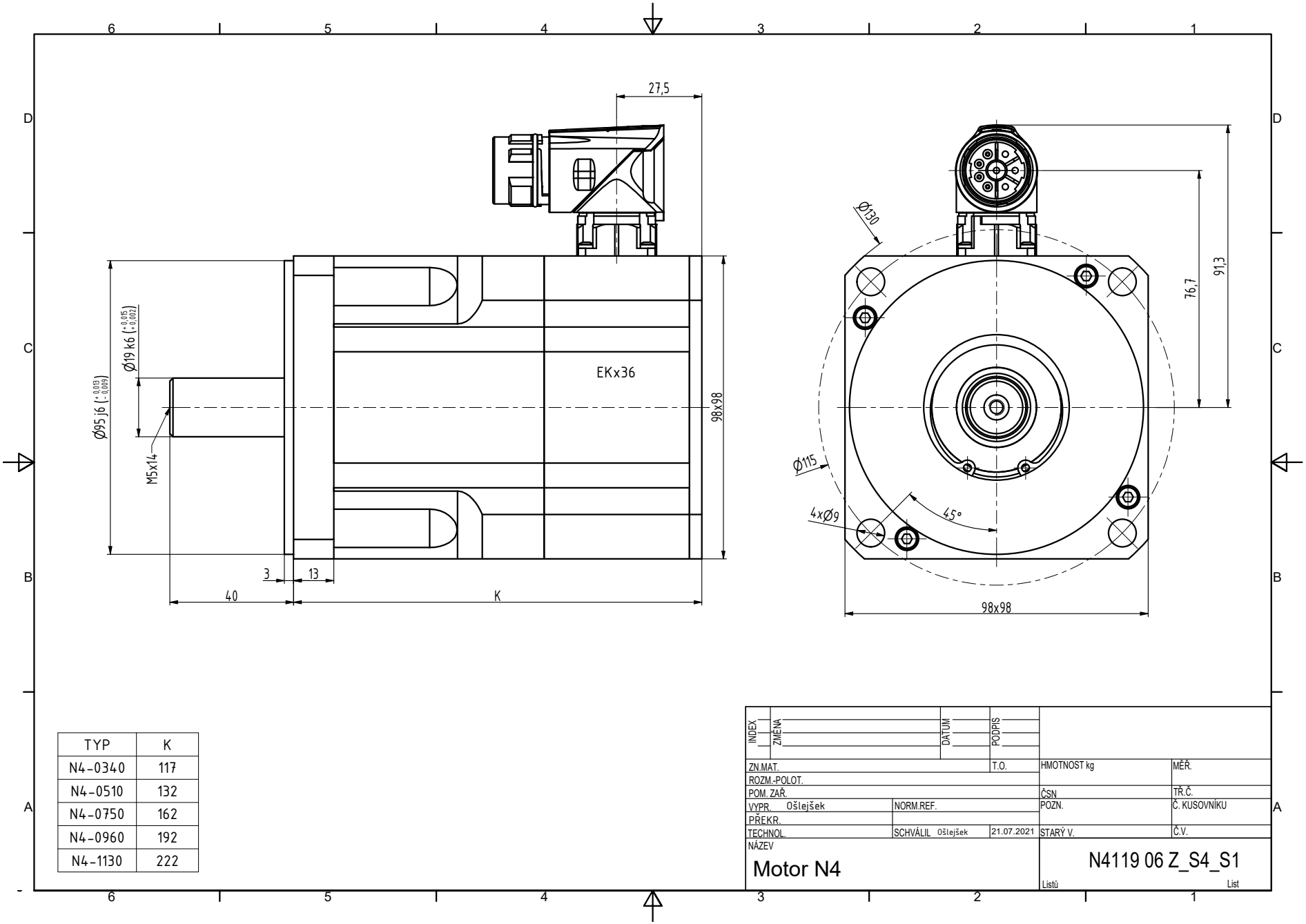
BGC110N00001216000

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+


27,5
98x98
SG080-032-P (N4)
TGN4-0750-30-560/T5S4-S01
161
162
76,7
91,3
22,5
Ø70
4x M6x10
Ø20 h7
Ø60 h7
Ø80
Untolerated dimensions: ISO 2768 - m
Drawen: Štěpán Bednář
Created: 01.07.2026
Modified:
Checked/approved by:
PROJECT NAME:
Material
Semiprod.
NUMBER - TITLE:
SG080-032-P (N4)
Project ID's
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM
ANGLES ±X.XX° or ±XXXX, 2 PL ±XXX, 3PL ±XXXX
SIZE A3
QUANTITY:
REVISION:
Designer: Bednar
Mail: bednar@tgdrives.cz
Tel: +420 724844770
Olomoucka 1290/79
627 00 Brno
Czech republic
AUTODESK
SCALE: 5:7
WEIGHT:
SHEET: 1/1



TYP	K
N4-0340	117
N4-0510	132
N4-0750	162
N4-0960	192
N4-1130	222

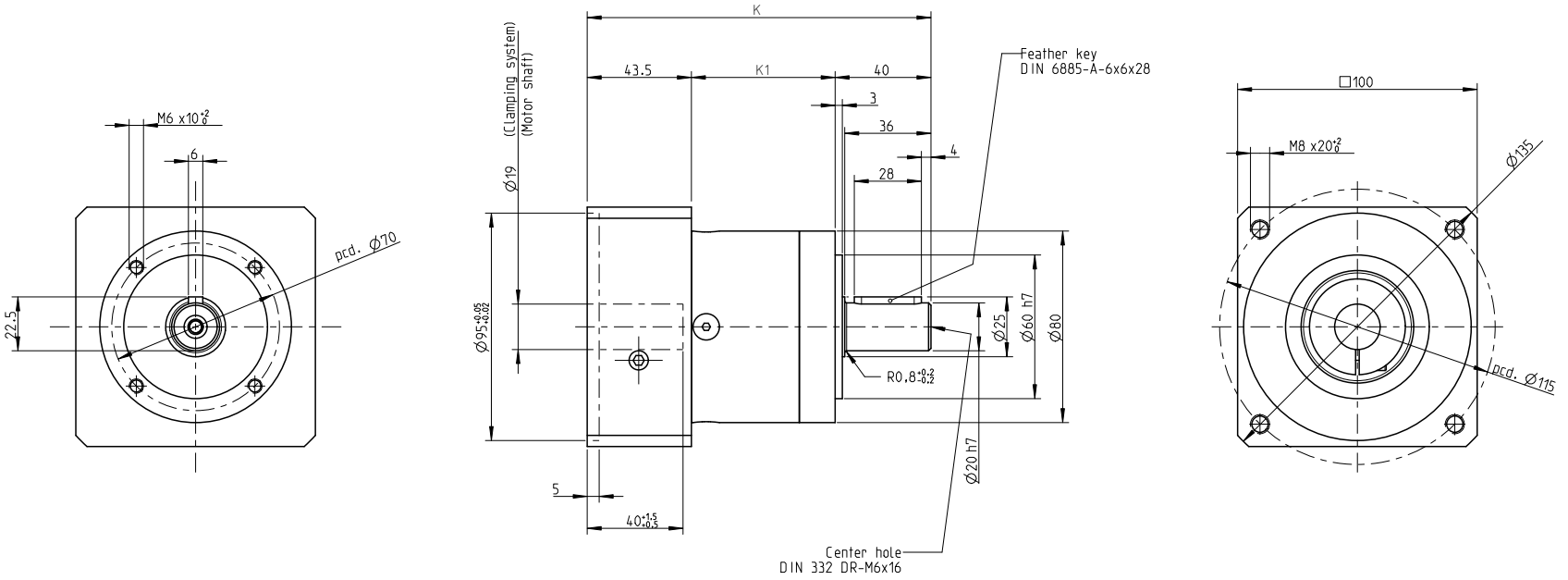
INDEX	ZMĚNA	DATUM	PODPIS

ZN.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
POM. ZAŘ.				ČSN	TŘ.Č.
VYPR. Ošlejšek	NORM.REF.			POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.	SCHVÁLIL Ošlejšek	21.07.2021		STARÝ V.	Č.V.

NÁZEV
Motor N4

N4119 06 Z_S4_S1

Listů List



NO OF STAGES	K	K1
I. stage	143,5	60
II. stage	161	77,5
III. stage	178,5	95

INDEX	ZMĚNA	DATUM	PODPIS		
ZM.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
ROZM. ZAŘ.				ČSN	TŘ.Č.
VYPR.		NORM. REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.		SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.
NÁZEV					
Gearbox SG080				TGN4, TGH4, TGT4	
				Listů	List