Engineering motordata (WIN 757)		
DC bus voltage	320	V DC
Nominal AC voltage	220	V AC (rms)
Rated voltage	114	V AC (rms)
Rated power	118	W
Rated speed	4500	rpm
Rated torque	0.25	Nm
Rated current	0.96	A (rms)
Peak torque	1.12	Nm
Peak current	4.4	A (rms)
Stall torque	0.28	Nm
Stall current	0.97	A (rms)
No load speed	12260	rpm
EMF constant ±10%	17.5	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.29	Nm / A (rms)
Torque constant ±10% @ rated load	0.26	Nm / A (rms)
Number of poles	6	
Electrical time constant	1.00	ms
Winding terminal resistance	26.9	Ω
Rotary field terminal inductance	26.8	mH

Customs info	
HS Code	85015100

Mechanical motor data (setting 48)		
Max mechanical speed	12000	rpm
Mech. time constant	2.78	ms
Thermal time constant	10	min
Rotor inertia	0.05	kgcm²
Protection	IP64	
Color	RAL 9005	
Cooling	Convection	
Motor-only mass	0.9	kg
Max. axial force 20kh	36	N
Max. radial force 20kh*	189	N
Max. axial force 100kh	21	N
Max. radial force 100kh*	110	N

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

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

Gearbox engineering data		
Gear ratio	10	
Efficiency*	90	%
Torsional stiffness	0.75	Nm/arcmin
Number of stages	1	
Rated output torque	4	Nm
Cycling output torque	5	Nm
Max output torque	8	Nm
Emergency output torque	25	Nm
Rated input speed	5000	rpm
Max input speed	18000	rpm
Operating temperature	<-25; 90>	°C
Max. backlash	< 21	arcmin
Service life	20000	h

** at rated speed & torque*

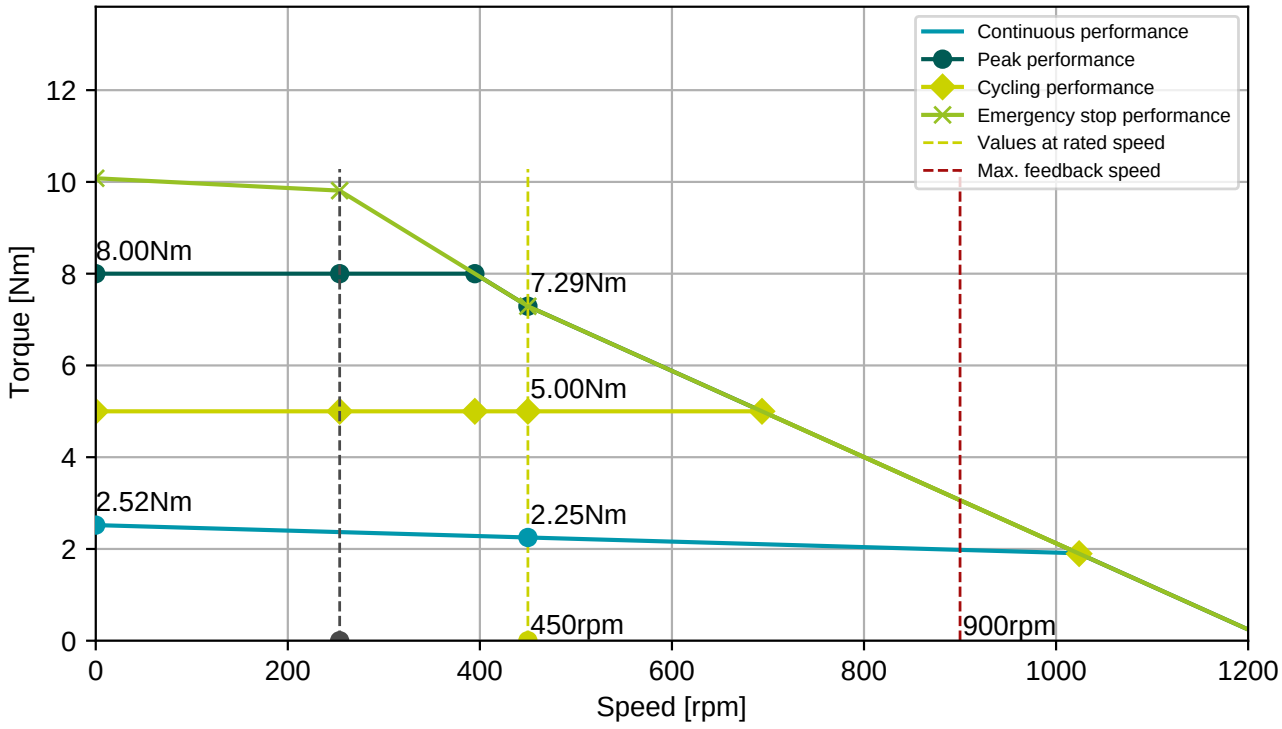
Lubrication	
Type	Standard
Lubricant	Grease (lifetime lubrication)

Gearbox mechanical data		
Radial force for 20'000h*	200	N
Max. radial force*	200	N
Axial force for 20'000h	200	N
Max. axial force	240	N
Output shaft design	Shaft key	
Mass	0.57	kg
Input inertia	0.04	kgcm²
Protection	IP54	

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

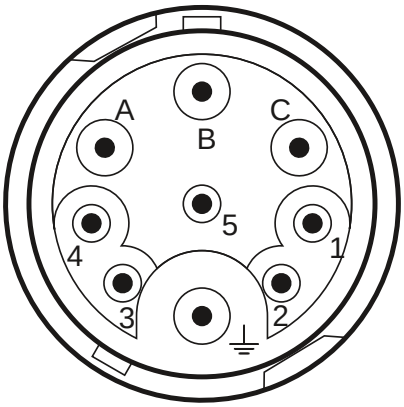
Actuator data		
Rated speed	450	rpm
Rated torque	2.25	Nm
Cycling torque	5.00	Nm
Peak torque	8.00	Nm
Emergency stop torque	11.20	Nm
EMF constant ±10%	175.0	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	2.34	Nm / A (rms)
Total mass	1.47	kg
Output inertia	9.0	kgcm²

Torque / speed curve

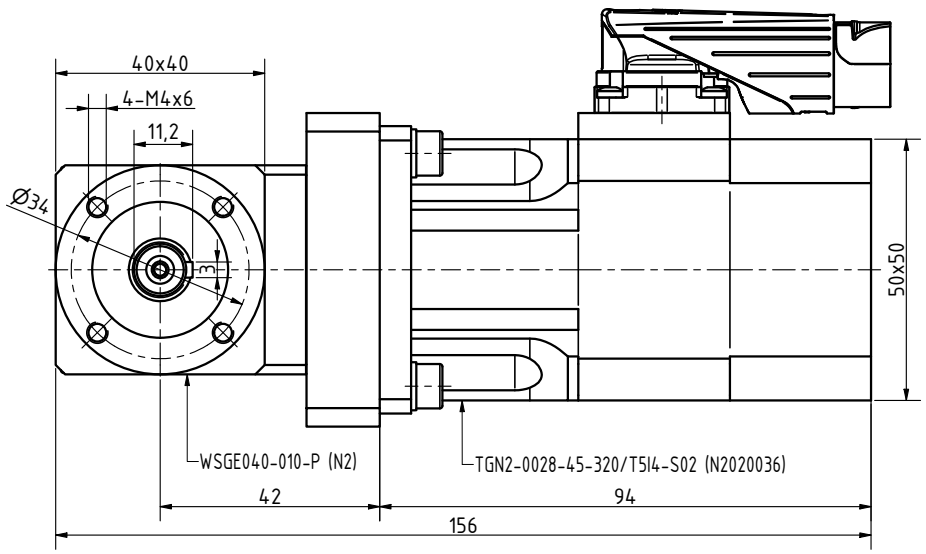


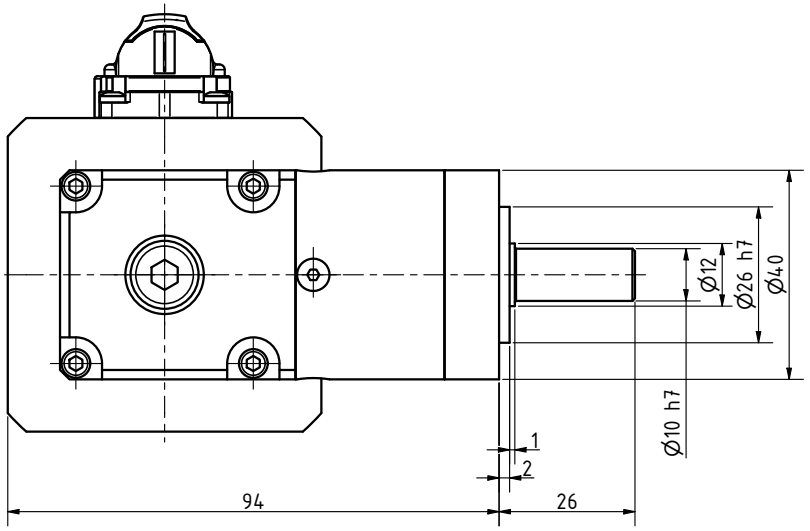
EGA201N00000800000

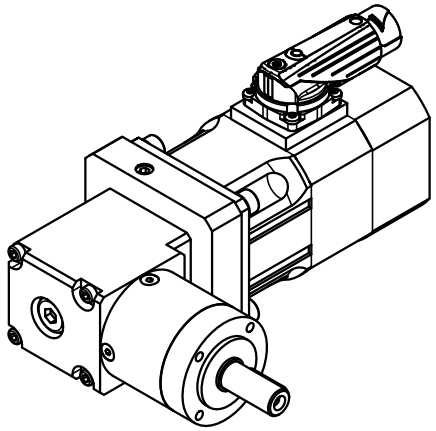
M15, 9 poles, rotary



Connector 1 (304)	
A	U
B	V
C	W
PE	PE
1	Brake+
2	Brake-
3	+Us/DSL+
4	GND/DSL-

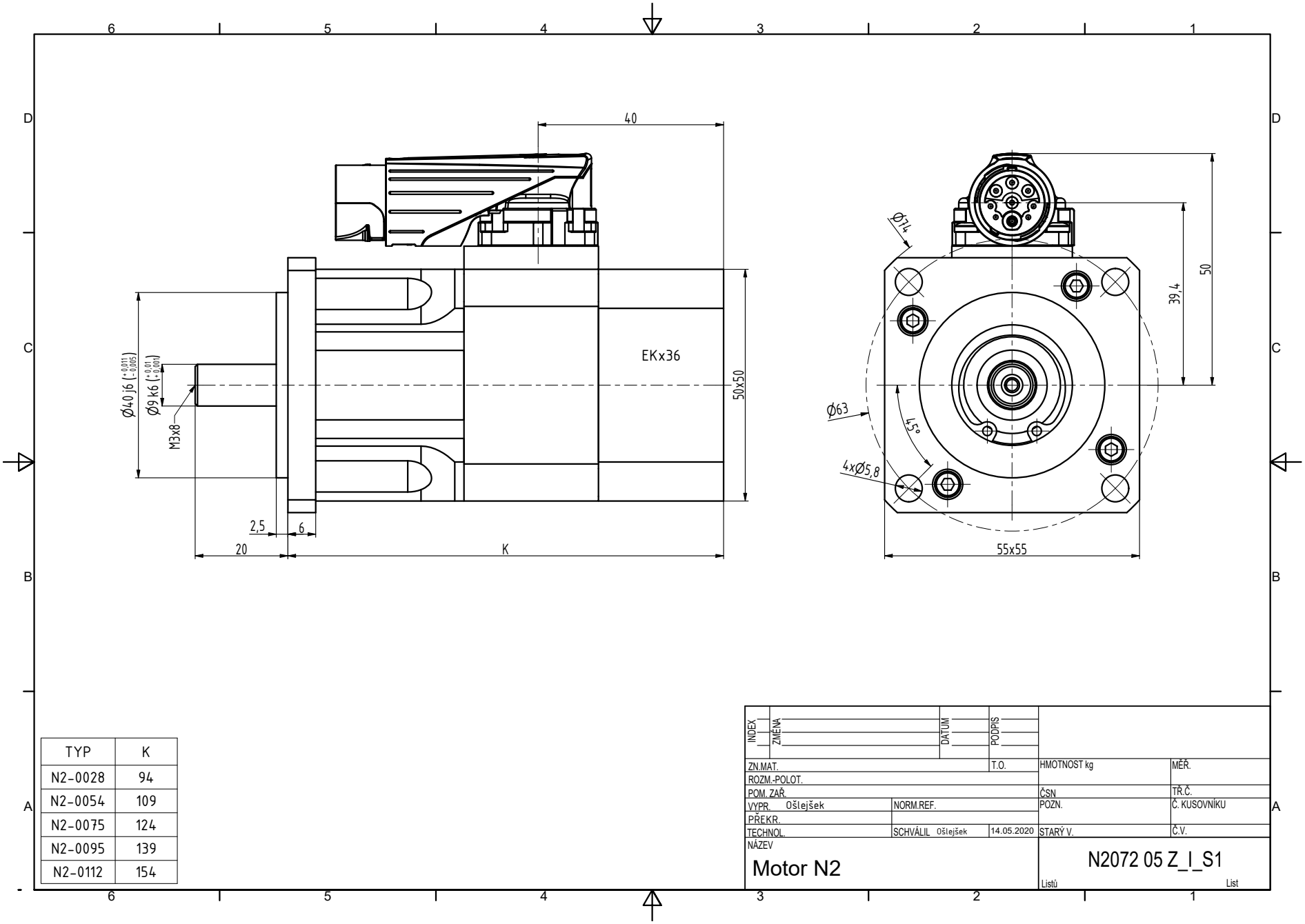






Untolerated dimensions: ISO 2768 – m

Drawen:	Štěpán Bednář	Created: 12.05.2026	Modified:
Checked/approved by:		PROJECT NAME:	
Material			
Semiprod.		NUMBER – TITLE: WSGE040-010-P (N2)	
Project ID's			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM ANGLES ±X.XX°or ±X.XXX, 2 PL ±X.XX, 3PL ±X.XXX		SIZE A3 / QUANTITY: / REVISION:	
Designer: Bednar Mail: bednar@tgdrives.cz Tel: +420 724844770	Olomoucka 1290/79 627 00 Brno Czech republic	AUTODESK	SCALE: 7:6 / WEIGHT: / SHEET: 1/1



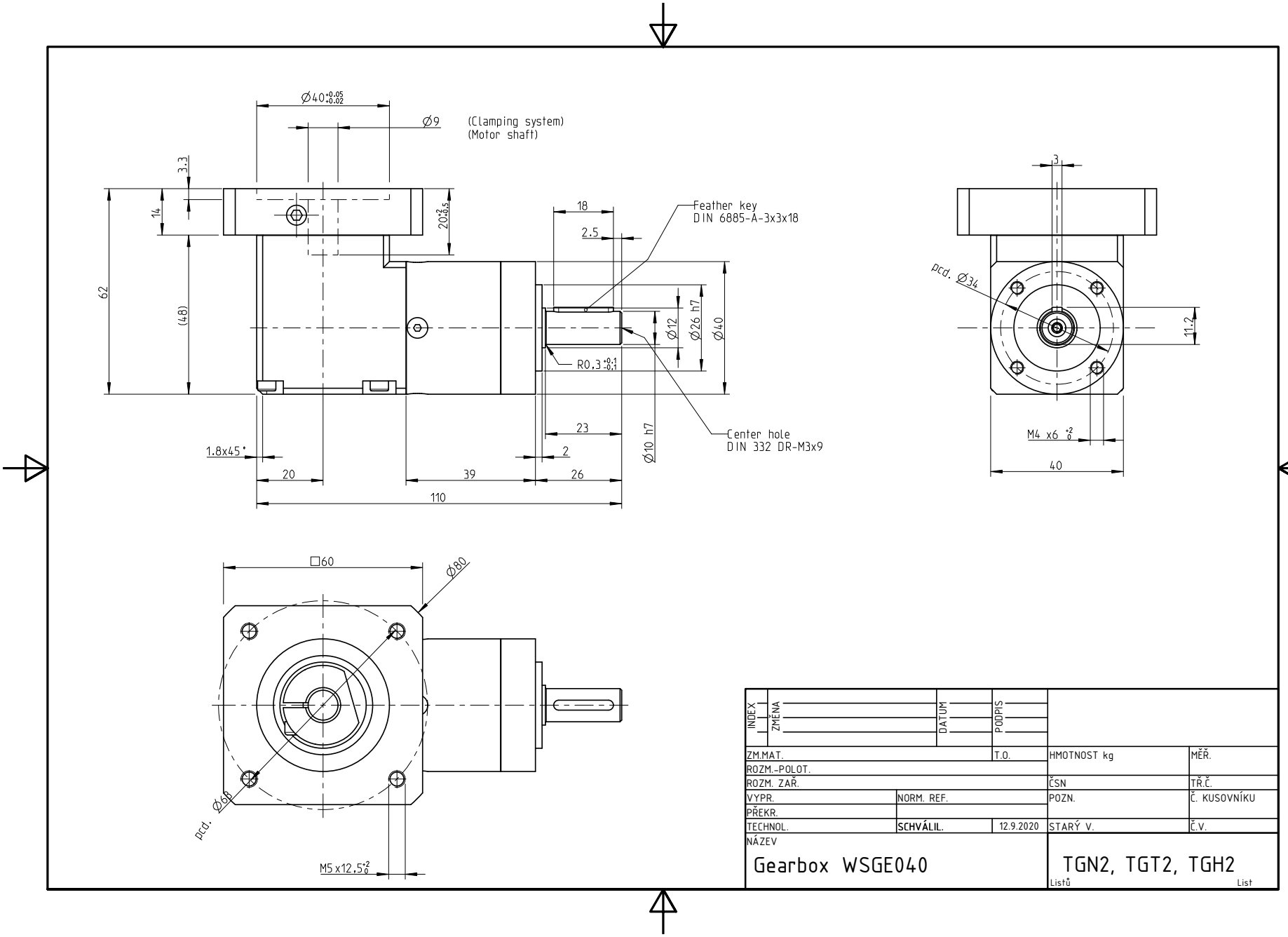
TYP	K
N2-0028	94
N2-0054	109
N2-0075	124
N2-0095	139
N2-0112	154

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	14.05.2020	STARÝ V.	Č.V.

NÁZEV
Motor N2

N2072 05 Z_I_S1

Listů List



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 WSGE040

TGN2, TGT2, TGH2

Listů List