Engineering motordata (WIN 1015)		
DC bus voltage	24	V DC
Nominal AC voltage	17	V AC (rms)
Rated voltage	15	V AC (rms)
Rated power	503	W
Rated speed	3000	rpm
Rated torque	1.60	Nm
Rated current	24.21	A (rms)
Peak torque	5.2	Nm
Peak current	110.5	A (rms)
Stall torque	1.9	Nm
Stall current	27.5	A (rms)
No load speed	4060	rpm
EMF constant ±10%	4.2	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.07	Nm / A (rms)
Torque constant ±10% @ rated load	0.07	Nm / A (rms)
Number of poles	10	
Electrical time constant	2.38	ms
Winding terminal resistance	0.042	Ω
Rotary field terminal inductance	0.1	mH

Customs info	
HS Code	85015100

Mechanical motor data (setting 30)		
Max mechanical speed	12000	rpm
Mech. time constant	1.05	ms
Thermal time constant	30	min
Rotor inertia	0.7	kgcm²
Protection	IP67	
Color	EPOX3 (RAL 9005)	
Cooling	Convection	
Motor-only mass	2.2	kg

Sensors	
Temperature	PT1000 {PT1000}
Feedback	ECN1123 (EnDat 2.2) single-turn, 23 bits

Brake		
Braking torque	2.00	Nm
Voltage	24	V DC
Power @20°C	15.0	W
Current @20°C	0.63	A
Inertia	0.08	kgcm²
Mass	0.25	kg

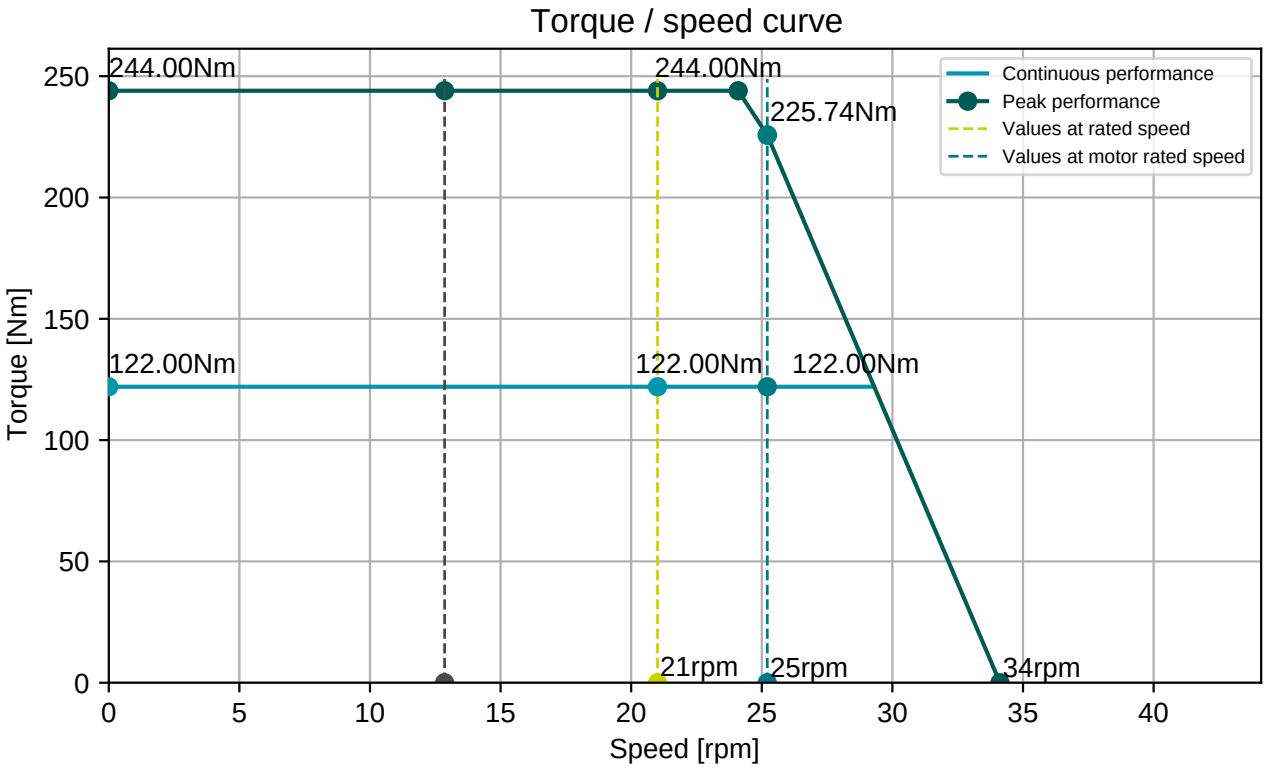
Gearbox engineering data		
Gear ratio	119	
Efficiency*	70	%
Torsional stiffness	22	Nm/arcmin
Rated output torque	122	Nm
Max output torque	244	Nm
Rated input speed	2500	rpm
Max input speed	4500	rpm
Operating temperature	<-40; 50>	°C
Max. backlash	< 1	arcmin
Tilting stiffness	150	Nm/arcmin
Service life	6000	h

** at rated speed & torque*

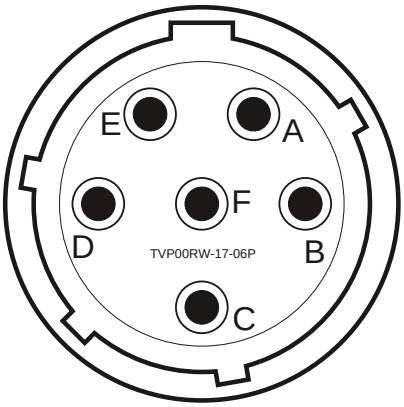
Lubrication	
Type	Low temperature
Lubricant	Tribol GR TT 1 PD

Gearbox mechanical data		
Max. radial force	9300	N
Max. axial force	13100	N
Output shaft design	Flange	
Mass	3.76	kg
Input inertia	0.16	kgcm²
Protection	IP54	

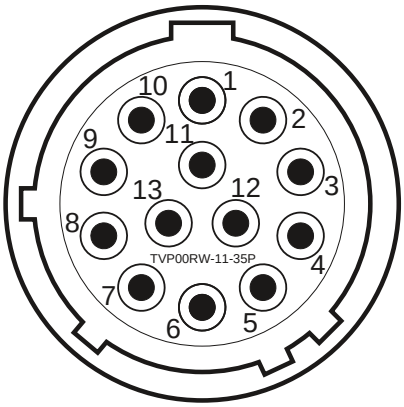
Actuator data		
Rated speed	21	rpm
Rated torque	122.00	Nm
Peak torque	244.00	Nm
EMF constant ±10%	499.8	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	5.51	Nm / A (rms)
Total mass	6.21	kg
Output inertia	12178.5	kgcm²



TVP00RW-17-06P

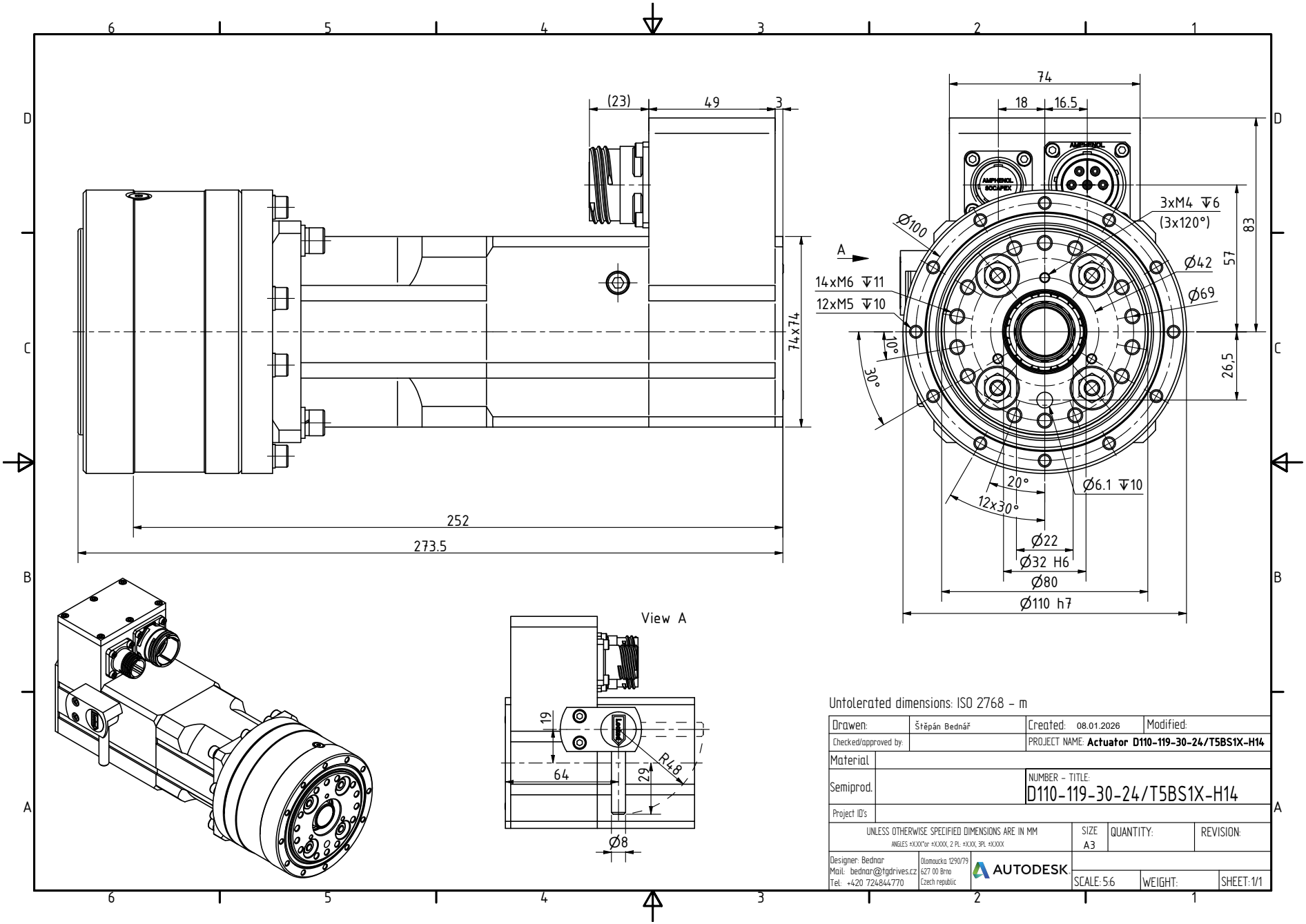


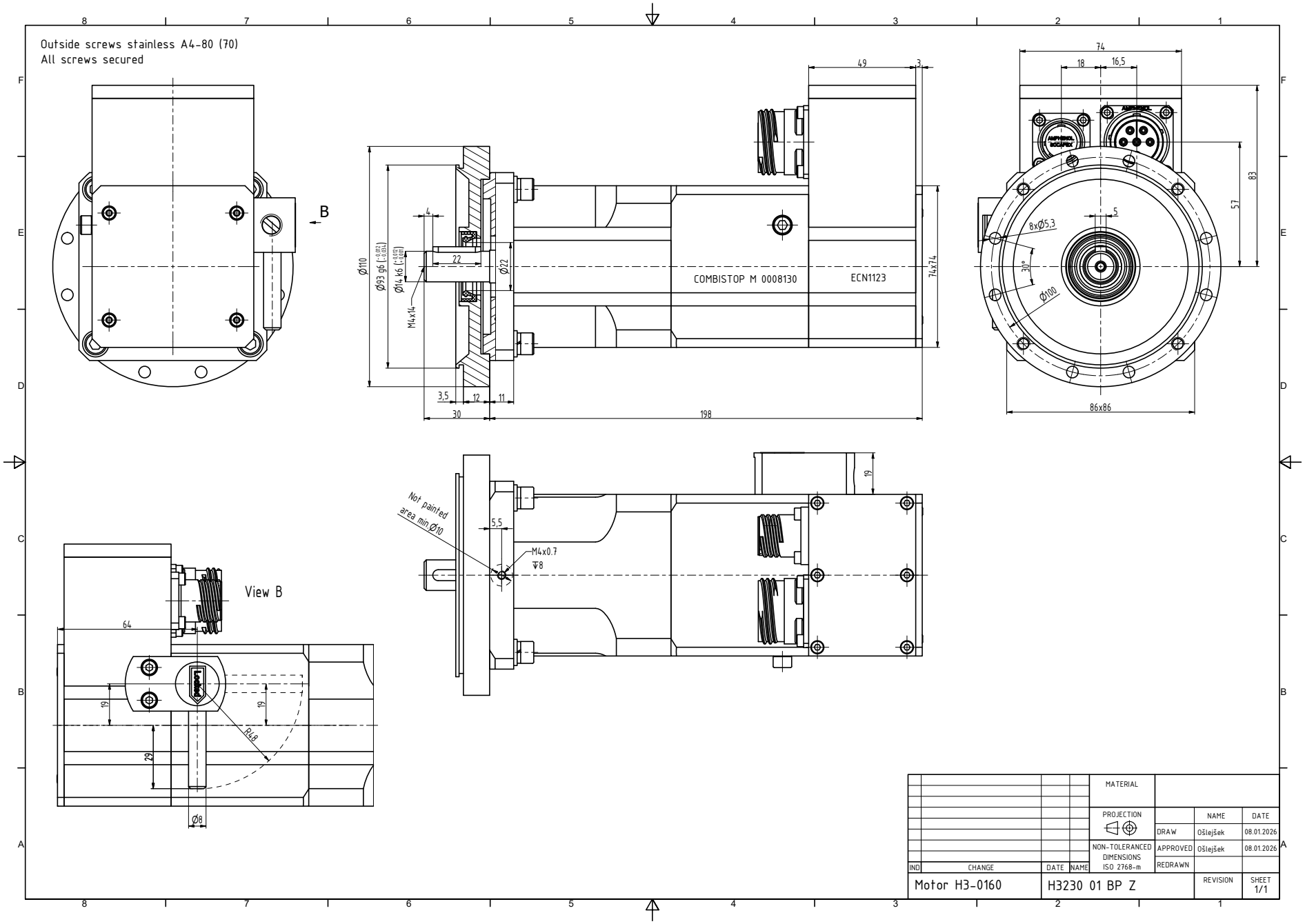
TVP00RW-11-35P

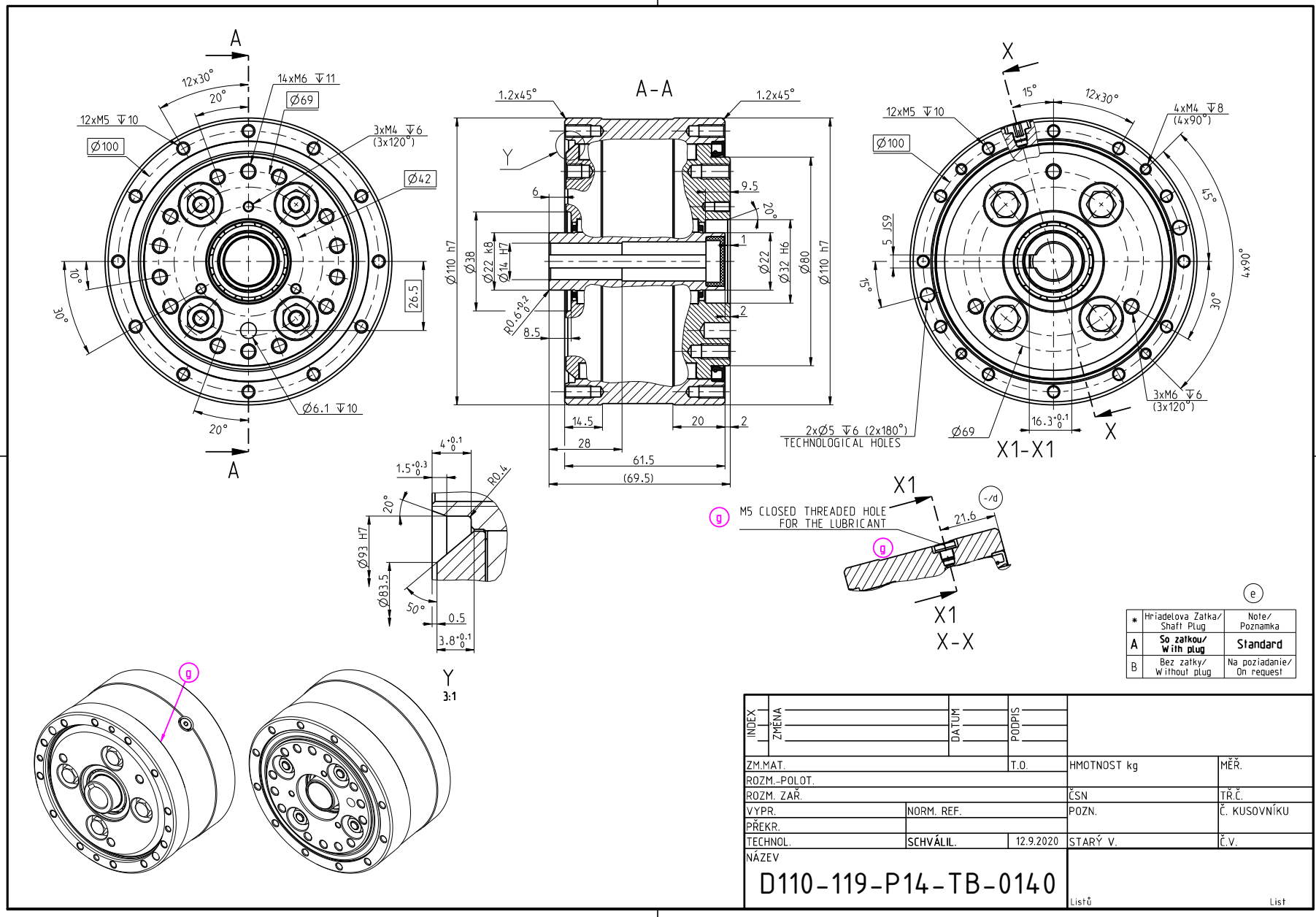


Connector 1 (202)	
A	U
B	V
C	W
D	PE
E	Bremse +
F	Bremse -

Connector 2 (307)	
1	Vcc (+5V)
2	GND
3	DATA
4	DATA-
5	CLOCK
6	CLOCK-
7	Therm+
8	Therm-
9	Vcc sensor
10	GND sensor


(23)
49
3
74x74
252
273.5
74
18
16.5
3xM4 ↧6
(3x120°)
Ø100
A
14xM6 ↧11
12xM5 ↧10
Ø42
Ø69
83
57
26,5
10°
30°
20°
12x30°
Ø6.1 ↧10
Ø22
Ø32 H6
Ø80
Ø110 h7
View A
19
64
29
R48
Ø8
Untolerated dimensions: ISO 2768 - m
Drawen: Štěpán Bednář
Created: 08.01.2026
Modified:
Checked/approved by:
PROJECT NAME: Actuator D110-119-30-24/T5BS1X-H14
Material
Semiprod.
NUMBER - TITLE:
D110-119-30-24/T5BS1X-H14
Project ID's
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM
ANGLES ±XXX°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: 5:6
WEIGHT:
SHEET: 1/1


Outside screws stainless A4-80 (70)
All screws secured
B
Ø110
Ø93 g6
Ø14 k6
M4x14
22
4
Ø22
49
3
74x74
COMBISTOP M 0008130
ECN1123
3,5
12
11
30
198
74
18
16,5
83
57
8xØ5,3
5
30°
Ø100
86x86
Not painted area min.Ø10
5,5
M4x0.7
↧8
19
View B
64
19
19
29
R48
Ø8
MATERIAL
PROJECTION
NON-TOLERANCED DIMENSIONS ISO 2768-m
IND
CHANGE
DATE
NAME
DRAW
APPROVED
REDRAWN
NAME
DATE
Ošlejšek
08.01.2026
Motor H3-0160
H3230 01 BP Z
REVISION
SHEET
1/1



*	Hriadelova zátka/ Shaft Plug	Note/ Poznámka
A	**So zátkou/ With plug**	**Standard**
B	Bez zátky/ Without plug	Na požiadanie/ On request

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

D110-119-P14-TB-0140

Listů List