Engineering motordata (WIN -100110)		
DC bus voltage	48	V DC
Nominal AC voltage	33	V AC (rms)
Rated voltage	27	V AC (rms)
Rated power	2.6	kW
Rated speed	3000	rpm
Rated torque	8.40	Nm
Rated current	65.71	A (rms)
Peak torque	31.5	Nm
Peak current	410.45	A (rms)
Stall torque	11.6	Nm
Stall current	86.37	A (rms)
No load speed	4060	rpm
EMF constant ±10%	8.1	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.13	Nm / A (rms)
Torque constant ±10% @ rated load	0.13	Nm / A (rms)
Number of poles	10	
Electrical time constant	8.18	ms
Winding terminal resistance	0.011	Ω
Rotary field terminal inductance	0.09	mH

Customs info	
HS Code	85015220

Mechanical motor data (setting 30)		
Max mechanical speed	9000	rpm
Mech. time constant	0.89	ms
Thermal time constant	40	min
Rotor inertia	8.4	kgcm²
Protection	IP65	
Color	EPOX3 (RAL 9005)	
Cooling	Convection	

Sensors	
Temperature	PT1000 {PT1000}
Feedback	AD36/1222AF.0CBEB (Biss-C, multi-turn 12+22 bits, 5VDC)

Brake		
Braking torque	8.00	Nm
Voltage	24	V DC
Power @20°C	23.0	W
Current @20°C	0.97	A
Inertia	0.18	kgcm²
Mass	0.75	kg

Gearbox engineering data		
Gear ratio	16	
Efficiency*	94	%
Torsional stiffness	16.9	Nm/arcmin
Number of stages	2	
Rated output torque	170	Nm
Cycling output torque	300	Nm
Max output torque	480	Nm
Emergency output torque	650	Nm
Rated input speed	1550	rpm
Max input speed	14000	rpm
Operating temperature	<-25; 90>	°C
Max. backlash	< 5	arcmin
Service life	20000	h

** at rated speed & torque*

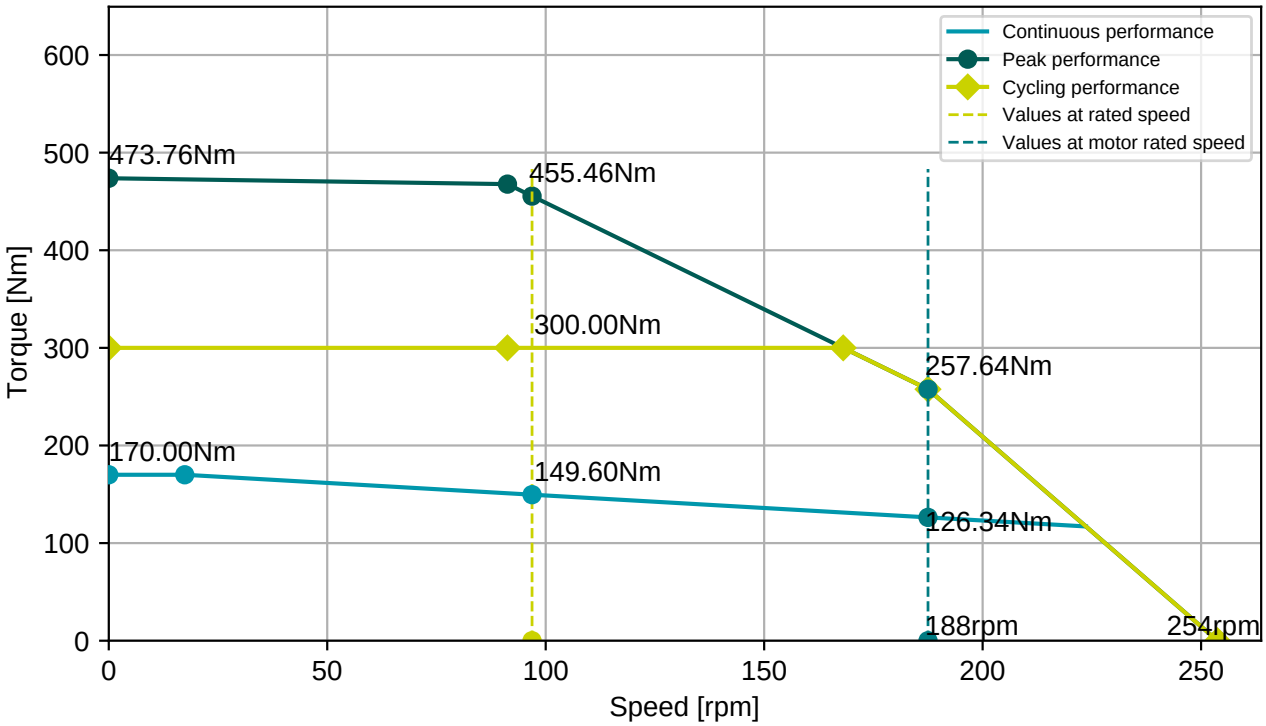
Lubrication	
Type	Standard
Lubricant	Castrol Optigear Synthetic 800

Gearbox mechanical data		
Radial force for 20'000h*	6000	N
Axial force for 20'000h	6500	N
Output shaft design	Shaft key	
Mass	11.8	kg
Input inertia	2.664	kgcm²
Protection	IP65	

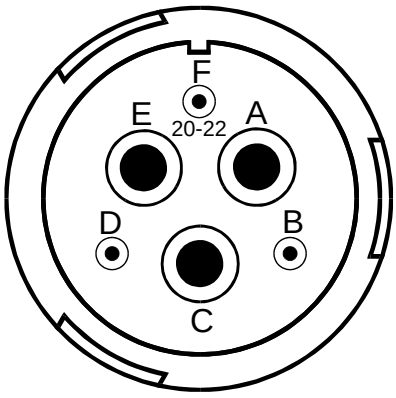
** Defined for point of action at ½ output shaft length*

Actuator data		
Rated speed	97	rpm
Rated torque	149.60	Nm
Cycling torque	300.00	Nm
Peak torque	473.76	Nm
Emergency stop torque	504.00	Nm
EMF constant ±10%	129.6	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	1.92	Nm / A (rms)
Output inertia	2832.4	kgcm²

Torque / speed curve

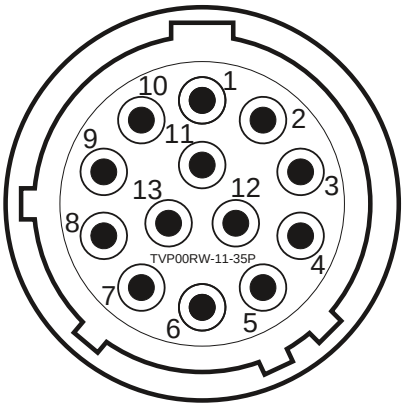


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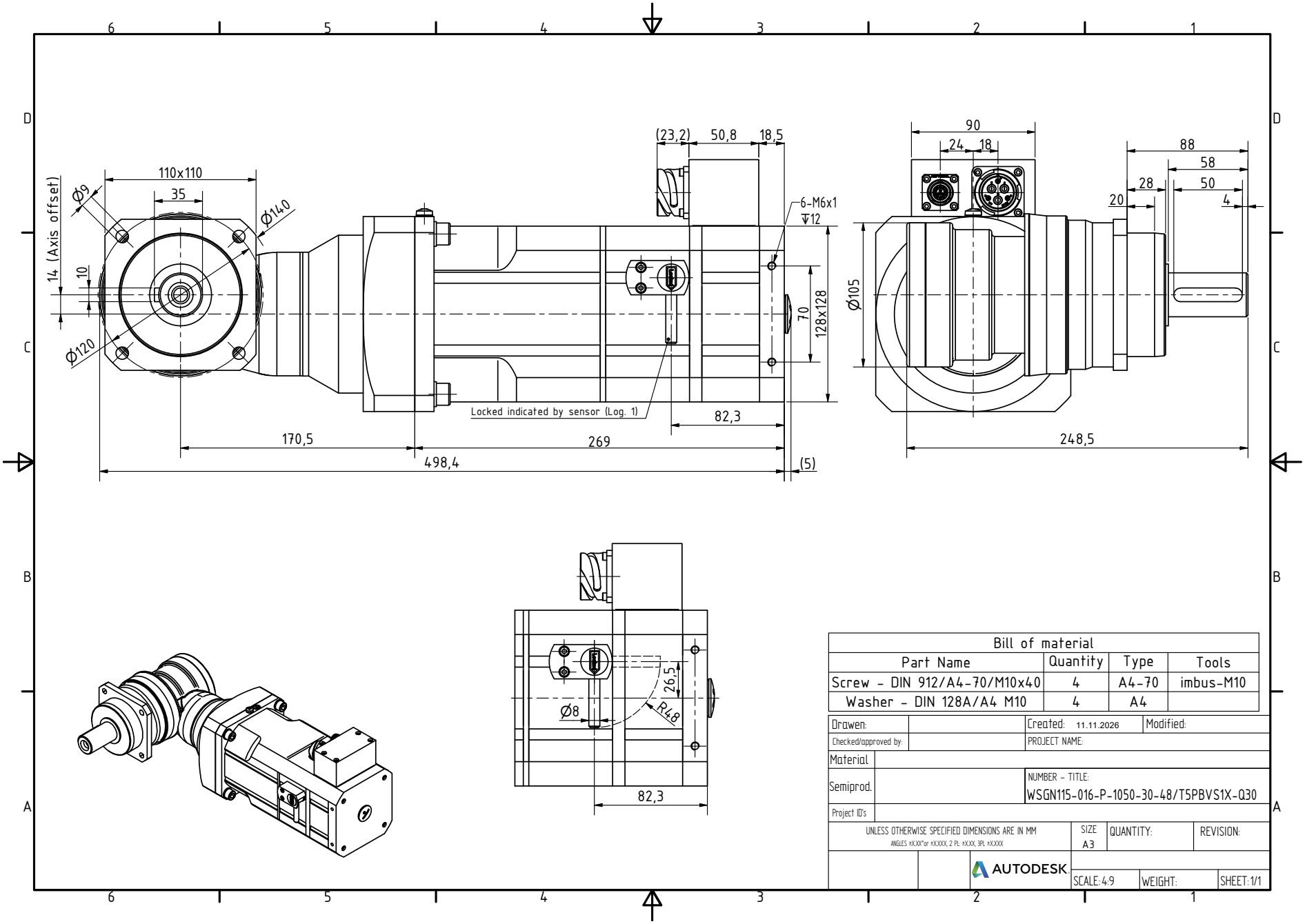


Connector 1 (468)	
A	U
C	V
E	W
F	PE
B	Brake+
D	Brake-

D38999/20ZB35PN



Connector 2 (551)	
1	Vcc
2	GND
3	DATA+
4	DATA-
5	CLOCK+
6	CLOCK-
7	Therm+
8	Therm-
11	BRK_SNS_Up (5-30 VDC)
12	BRK_SNS_GND
13	BRK_SNS_HALL

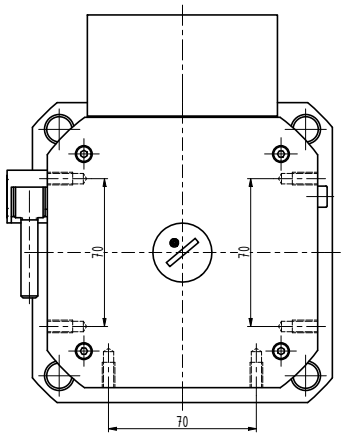


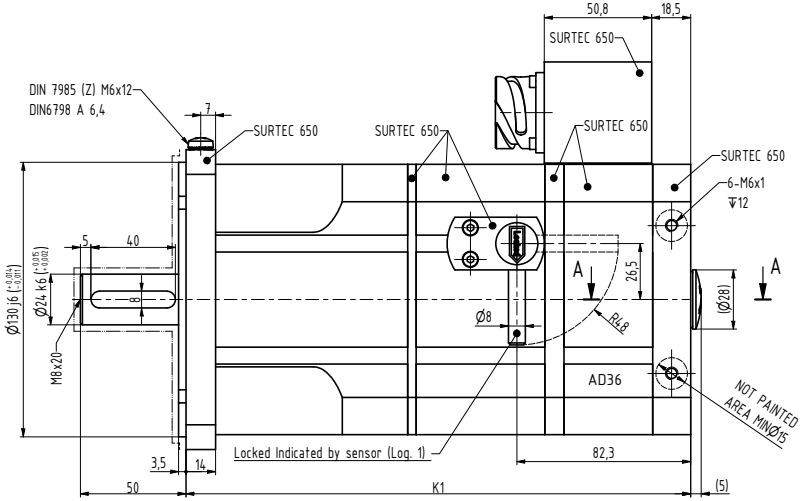
Bill of material			
Part Name	Quantity	Type	Tools
Screw - DIN 912/A4-70/M10x40	4	A4-70	imbus-M10
Washer - DIN 128A/A4 M10	4	A4	

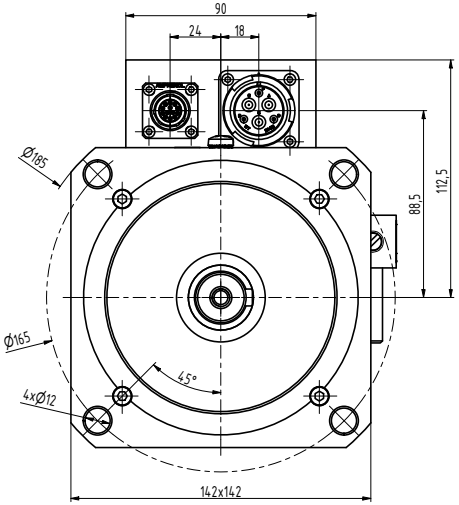
Drawen:		Created: 11.11.2026	Modified:
Checked/approved by:		PROJECT NAME:	
Material			
Semiprod.		NUMBER - TITLE: WSGN115-016-P-1050-30-48/T5PBVS1X-Q30	
Project ID's			

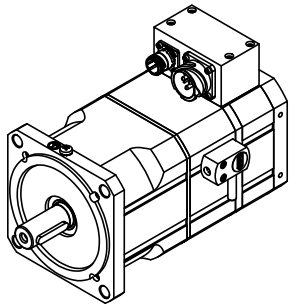
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM ANGLES ±X.XX° or ±XXXX, 2 PL ±XXX, 3PL ±XXXX	SIZE A3	QUANTITY:	REVISION:
AUTODESK	SCALE: 4:9	WEIGHT:	SHEET: 1/1

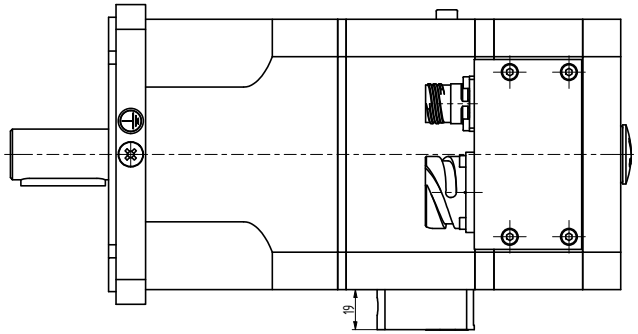
Stainless steel screws min. A2-70 on unpainted parts
All screws secured



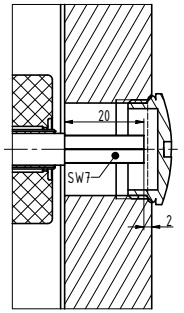






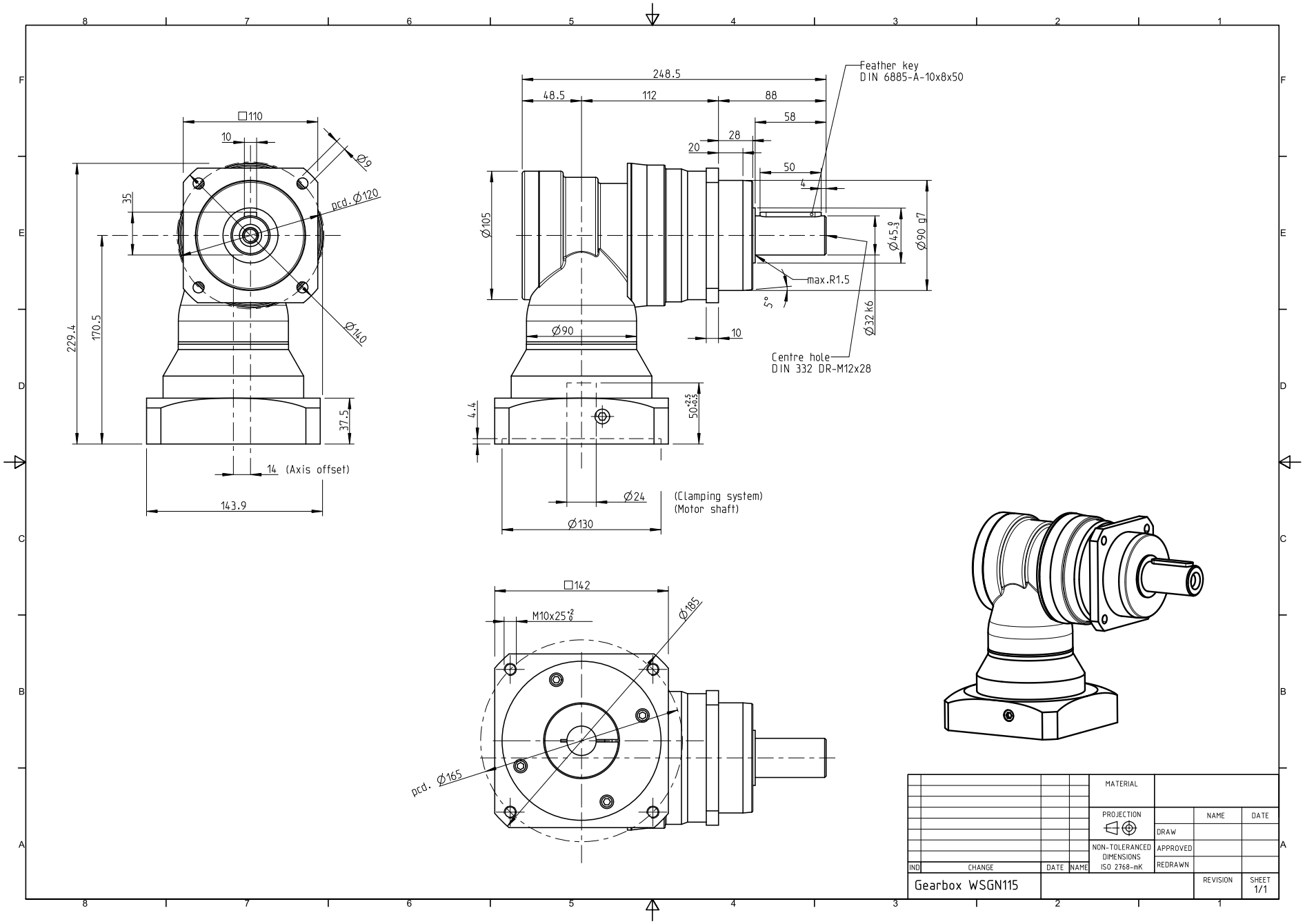


A-A



TYP	K1
M5-0650	239
M5-1050	269

				MATERIAL		
				PROJECTION		
				NON-TOLERANCED DIMENSIONS ISO 2768-mK		
IND	CHANGE	DATE	NAME			
					DRAW	Ošlejšek 15.07.2026
					APPROVED	Ošlejšek 15.07.2026
					REDRAWN	
Motor M5		M5145 16 BP Z			REVISION	SHEET 1/1


□110
10
Ø9
pcd. Ø120
35
229.4
170.5
Ø140
37.5
14 (Axis offset)
143.9
248.5
48.5
112
88
58
28
20
50
4
Feather key
DIN 6885-A-10x8x50
Ø105
Ø45.3
Ø90 g7
max.R1.5
5°
Ø32 k6
Ø90
10
Centre hole
DIN 332 DR-M12x28
4.4
50
Ø24
(Clamping system)
(Motor shaft)
Ø130
□142
M10x25
Ø185
pcd. Ø165
MATERIAL
PROJECTION
NON-TOLERANCED DIMENSIONS ISO 2768-mK
IND
CHANGE
DATE
NAME
DRAW
APPROVED
REDRAWN
Gearbox WSGN115
REVISION
SHEET 1/1