Engineering motordata (WIN -100088)		
DC bus voltage	48	V DC
Nominal AC voltage	33	V AC (rms)
Rated voltage	28	V AC (rms)
Rated power	2.4	kW
Rated speed	2500	rpm
Rated torque	9.20	Nm
Rated current	58.15	A (rms)
Peak torque	31.5	Nm
Peak current	333.29	A (rms)
Stall torque	11.6	Nm
Stall current	70.13	A (rms)
No load speed	3290	rpm
EMF constant ±10%	10	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.17	Nm / A (rms)
Torque constant ±10% @ rated load	0.16	Nm / A (rms)
Number of poles	10	
Electrical time constant	8.24	ms
Winding terminal resistance	0.017	Ω
Rotary field terminal inductance	0.14	mH

Customs info	
HS Code	85015220

Mechanical motor data (setting 48)		
Max mechanical speed	9000	rpm
Mech. time constant	0.90	ms
Thermal time constant	40	min
Rotor inertia	8.4	kgcm²
Protection	IP65	
Color	RAL 9005	
Cooling	Convection	

Sensors	
Temperature	PT1000 {PT1000}
Feedback	EDM35 (HDSL) multi-turn, 20+12 bits

Brake		
Braking torque	18.00	Nm
Voltage	24	V DC
Power @20°C	24.0	W
Current @20°C	1.00	A
Inertia	2.00	kgcm²
Mass	1.80	kg

Gearbox engineering data		
Gear ratio	50	
Efficiency*	94	%
Torsional stiffness	241	Nm/arcmin
Number of stages	2	
Rated output torque	310	Nm
Cycling output torque	620	Nm
Max output torque	1000	Nm
Emergency output torque	1200	Nm
Rated input speed	3500	rpm
Max input speed	8500	rpm
Operating temperature	<-40; 60>	°C
Max. backlash	< 1	arcmin
Service life	20000	h

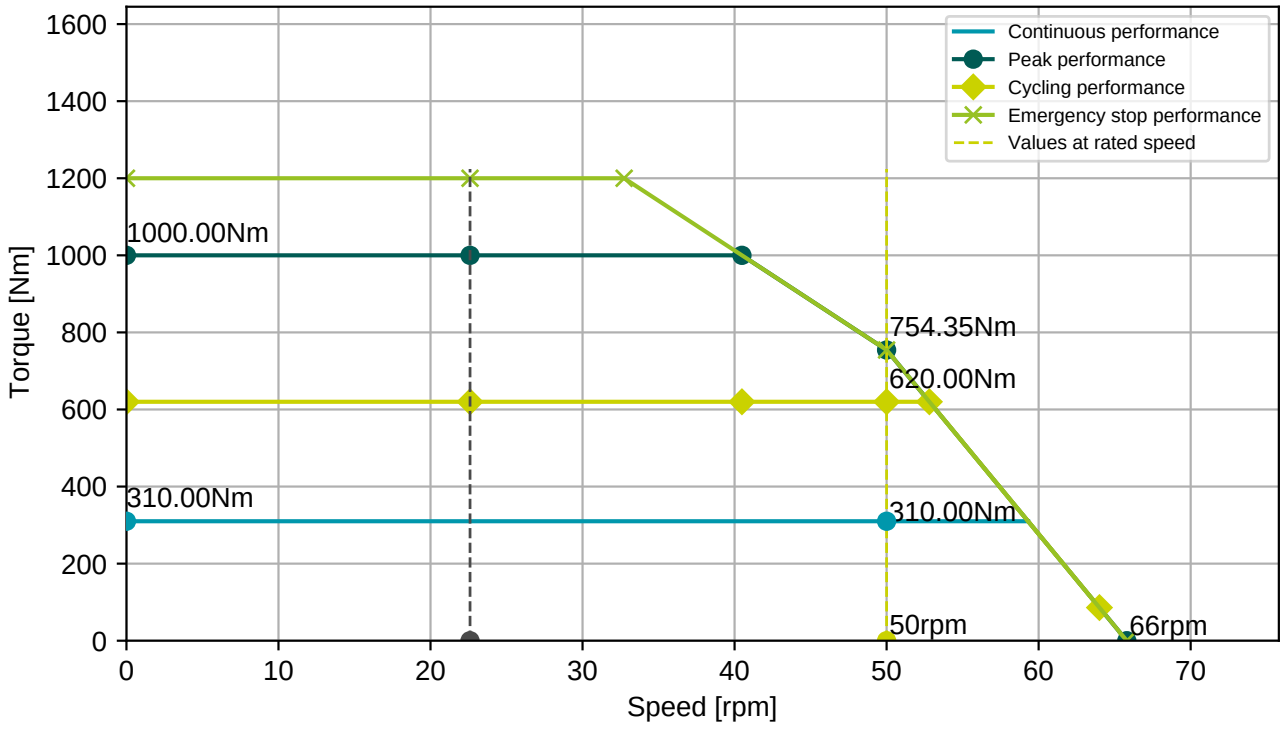
** at rated speed & torque*

Lubrication	
Type	Low temperature
Lubricant	Klübersynth GH 6-32

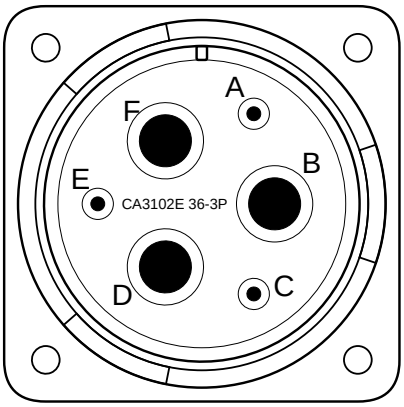
Gearbox mechanical data		
Radial force for 20'000h	12000	N
Radial force for 30'000h	11000	N
Max. radial force	12000	N
Axial force for 20'000h	8500	N
Axial force for 30'000h	7500	N
Max. axial force	7500	N
Tilting moment for 20'000h	1219	Nm
Tilting moment for 30'000h	1117	Nm
Max. bending moment	80	Nm
Output shaft design	Flange with dowel hole	
Mass	15.4	kg
Input inertia	1.977	kgcm²
Protection	IP65	

Actuator data		
Rated speed	50	rpm
Rated torque	310.00	Nm
Cycling torque	620.00	Nm
Peak torque	1000.00	Nm
Emergency stop torque	1200.00	Nm
EMF constant ±10%	500.0	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	7.44	Nm / A (rms)
Output inertia	25942.5	kgcm²

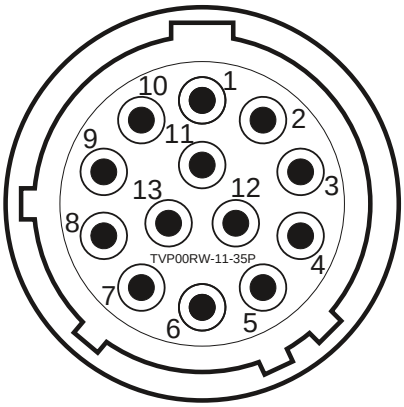
Torque / speed curve



CA3102E36-3P-B-A232-F0

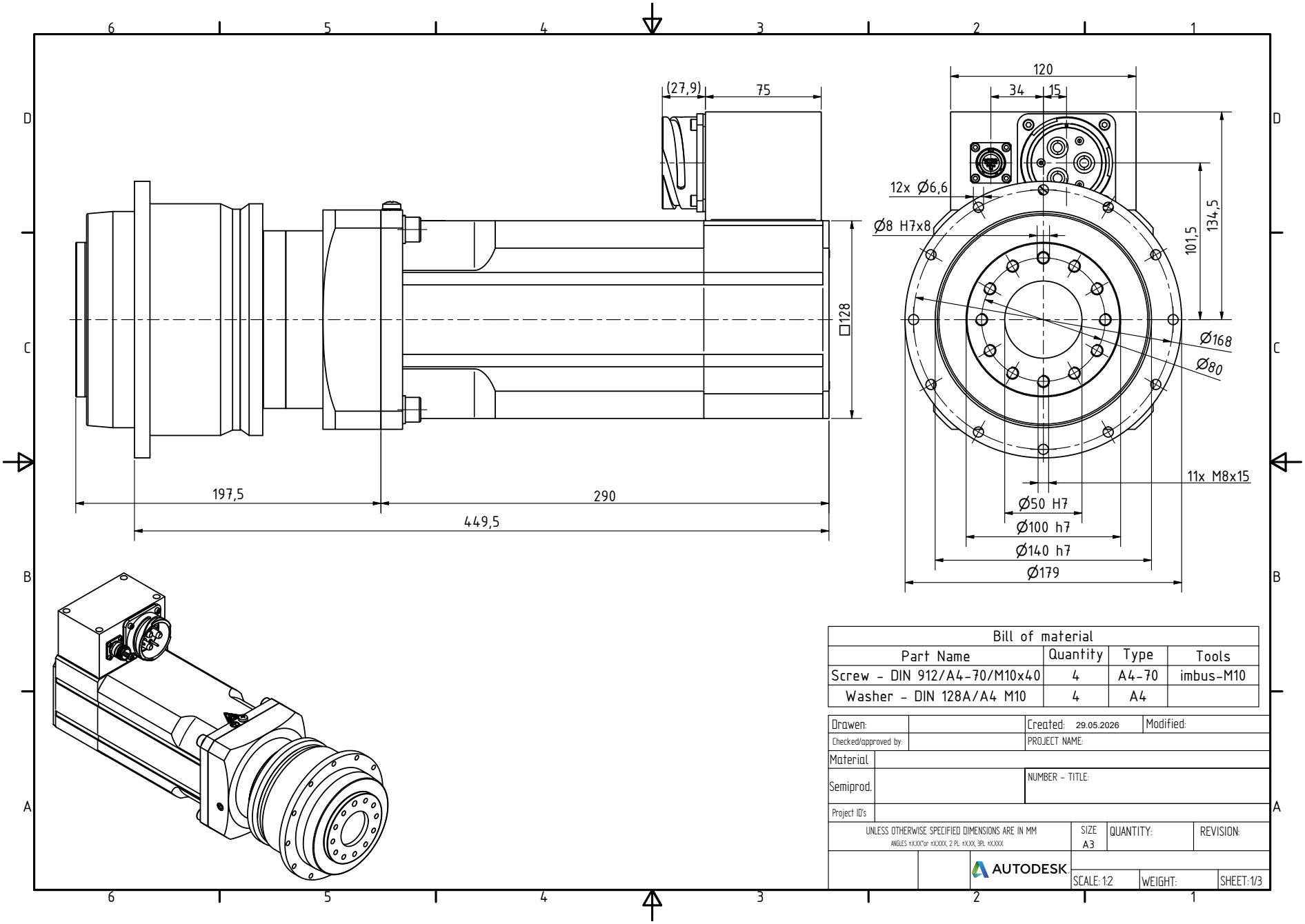


TVP00RW-11-35P



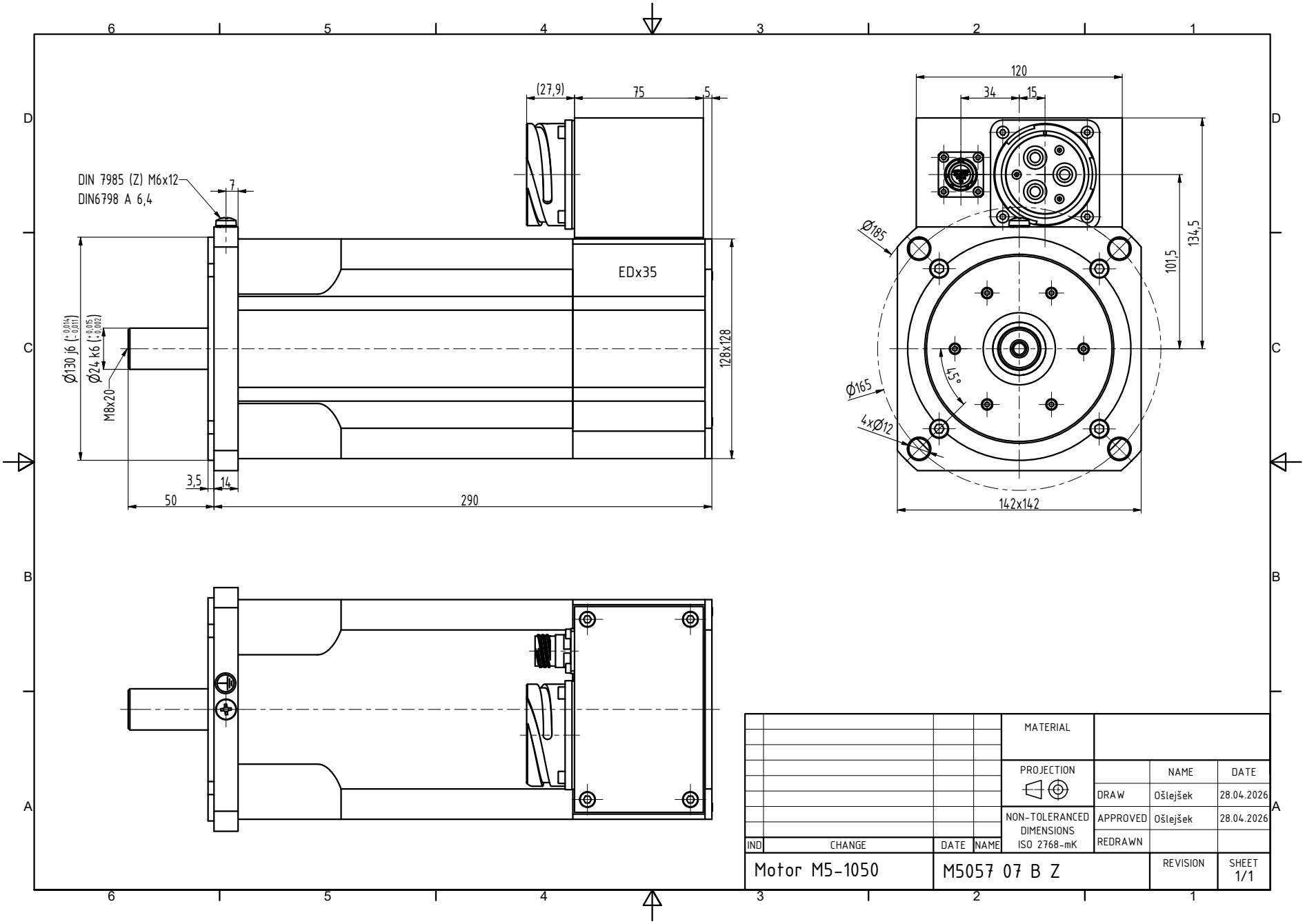
Connector 1 (552)	
A	GND
B	U
C	Brake+
D	V
E	Brake-
F	W

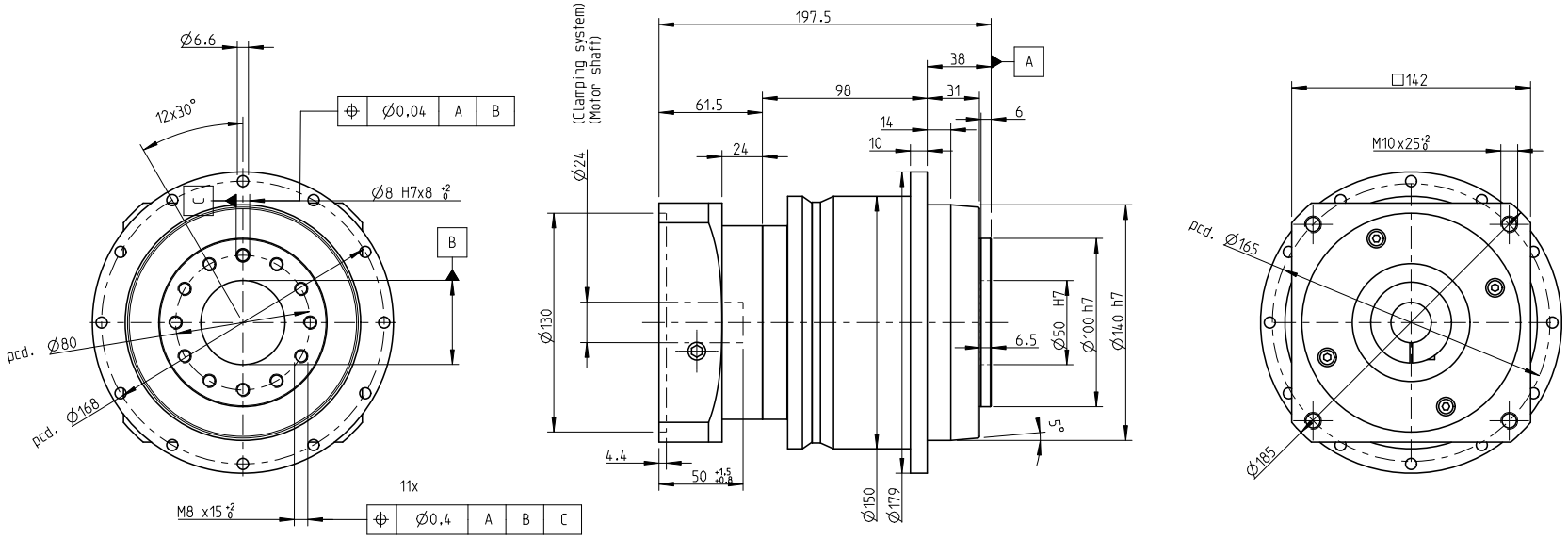
Connector 2 (402)	
1	+Us/DSL+
2	GND/DSL-

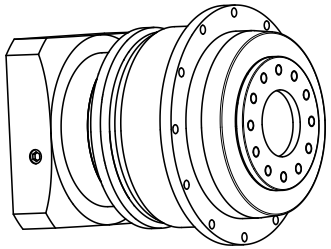


Bill of material			
Part Name	Quantity	Type	Tools
Screw - DIN 912/A4-70/M10x40	4	A4-70	imbus-M10
Washer - DIN 128A/A4 M10	4	A4	

Drawen:		Created: 29.05.2026	Modified:
Checked/approved by:		PROJECT NAME:	
Material			
Semiprod.		NUMBER - TITLE:	
Project ID's			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM ANGLES ±XXX°or ±XXXX, 2 PL ±XXX, 3PL ±XXXX		SIZE A3	QUANTITY: REVISION:
AUTODESK		SCALE: 1:2	WEIGHT: SHEET: 1/3


DIN 7985 (Z) M6x12
DIN6798 A 6,4
7
(27,9)
75
5
EDx35
128x128
Ø130 j6 (+0,014 -0,011)
Ø24 k6 (+0,015 +0,002)
M8x20
3,5
14
50
290
120
34
15
Ø185
101,5
134,5
45°
Ø165
4xØ12
142x142
MATERIAL
PROJECTION
NON-TOLERANCED DIMENSIONS ISO 2768-mK
IND
CHANGE
DATE
NAME
NAME
DATE
DRAW
Ošlejšek
28.04.2026
APPROVED
Ošlejšek
28.04.2026
REDRAWN
Motor M5-1050
M5057 07 B Z
REVISION
SHEET
1/1





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.		STARÝ V.	Č.V.	

NÁZEV

Gearbox SGFN140

TGN5, TGT5, TGH5

Listů List