

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
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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 kgcm ²
Protection	IP65
Color	RAL 9005
Cooling	Convection

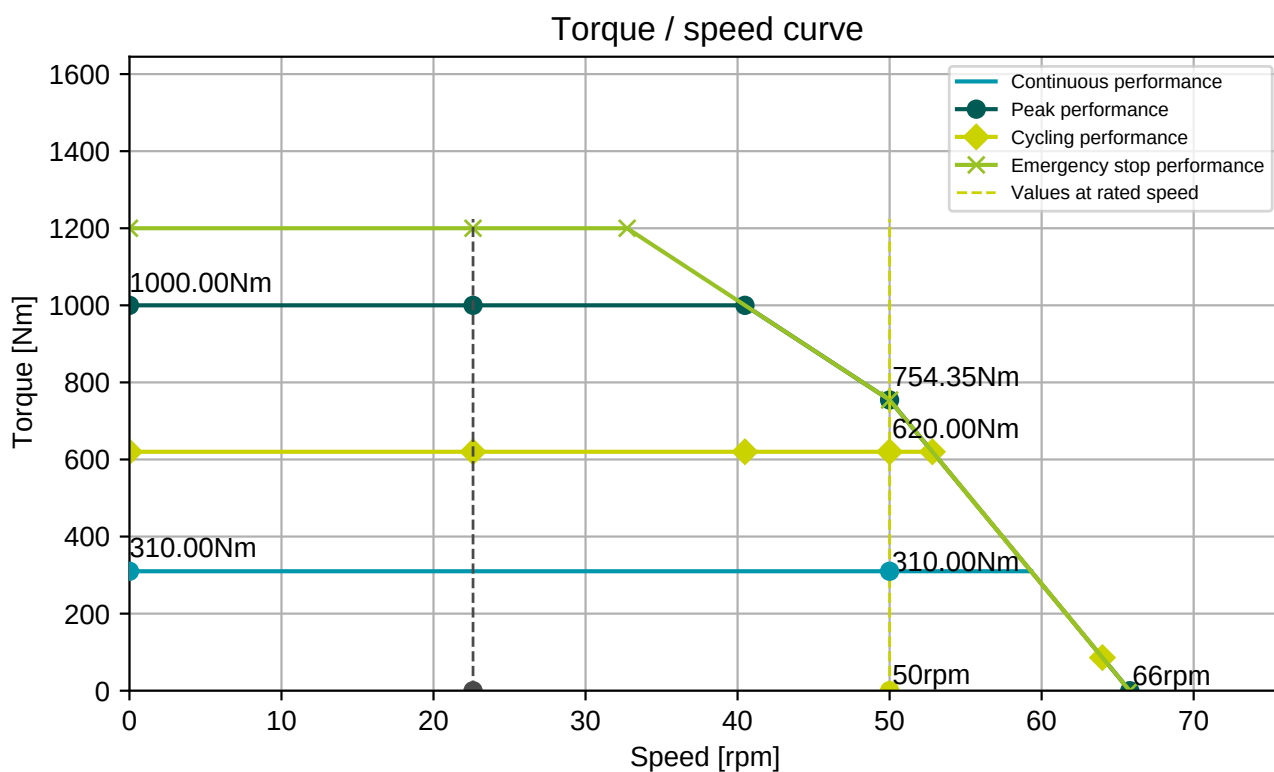
Sensors

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

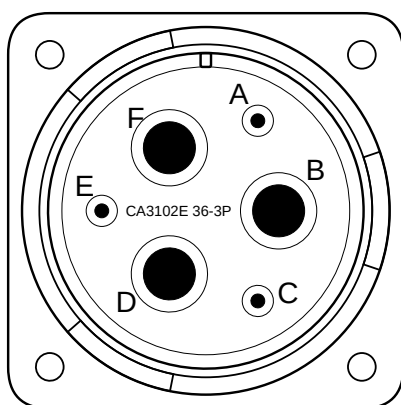
Brake

Braking torque	18.00 Nm
Voltage	24 V DC
Power @20°C	24.0 W
Current @20°C	1.00 A
Inertia	2.00 kgcm ²
Mass	1.80 kg

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	50	Radial force for 20'000h	12000 N
Efficiency	94 %*	Radial force for 30'000h	11000 N
Torsional stiffness	241 Nm/arcmin	Max. radial force	12000 N
Number of stages	2	Axial force for 20'000h	8500 N
Rated output torque	310 Nm	Axial force for 30'000h	7500 N
Cycling output torque	620 Nm	Max. axial force	7500 N
Max output torque	1000 Nm	Tilting moment for 20'000h	1219 Nm
Emergency output torque	1200 Nm	Tilting moment for 30'000h	1117 Nm
Rated input speed	3500 rpm	Max. bending moment	80 Nm
Max input speed	8500 rpm	Output shaft design	Flange with dowel hole
Operating temperature	<-40; 60> °C	Mass	15.4 kg
Max. backlash	< 1 arcmin	Input inertia	1.977 kgcm ²
Service life	20000 h	Protection	IP65
* at rated speed & torque			
Lubrication		Actuator data	
Type	Low temperature	Rated speed	50 rpm
Lubricant	Klübersynth GH 6-32	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 kgcm ²



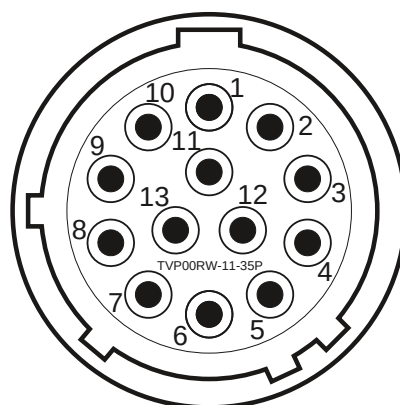
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Connector 1 (552)

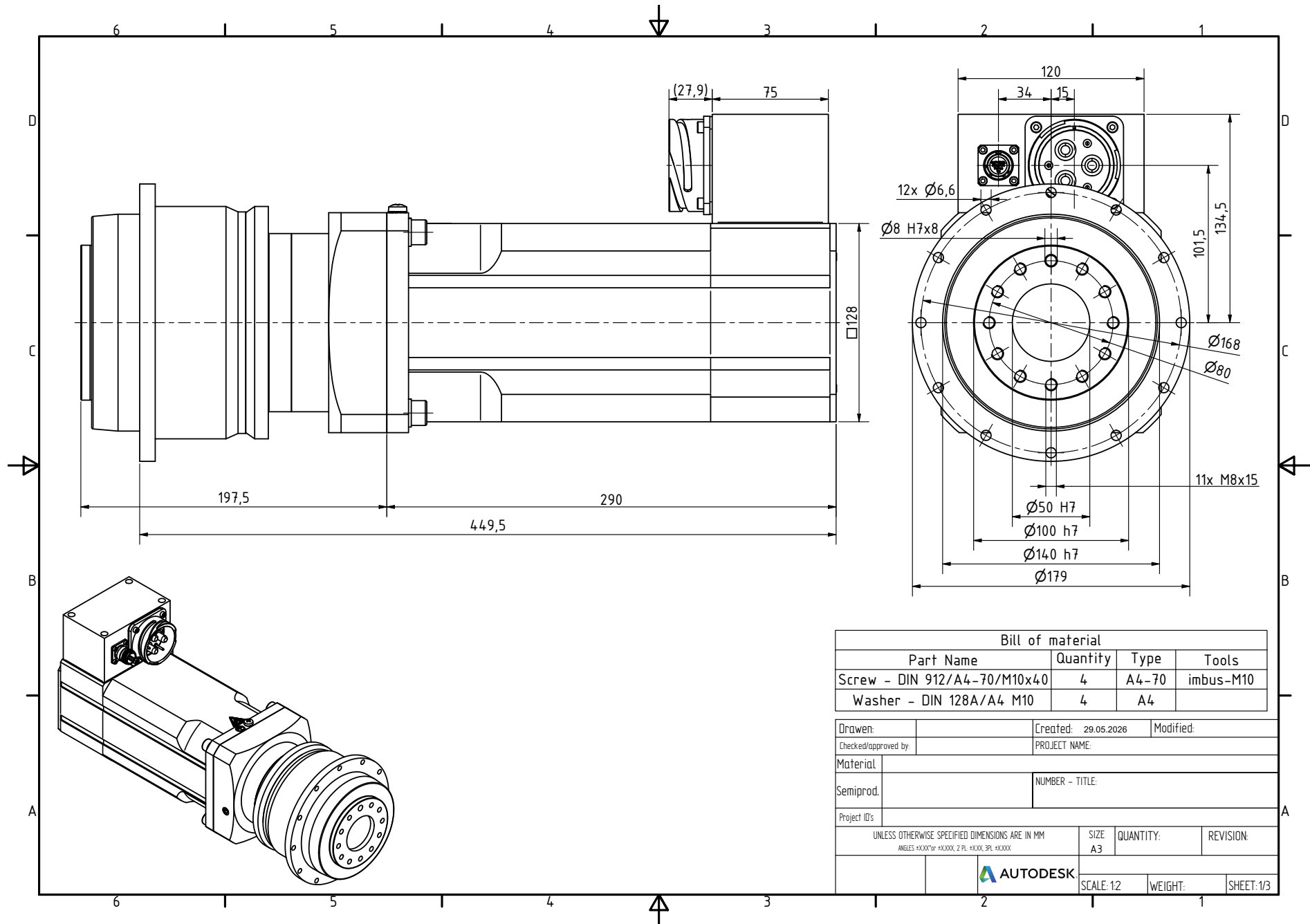
A	GND
B	U
C	Brake+
D	V
E	Brake-
F	W

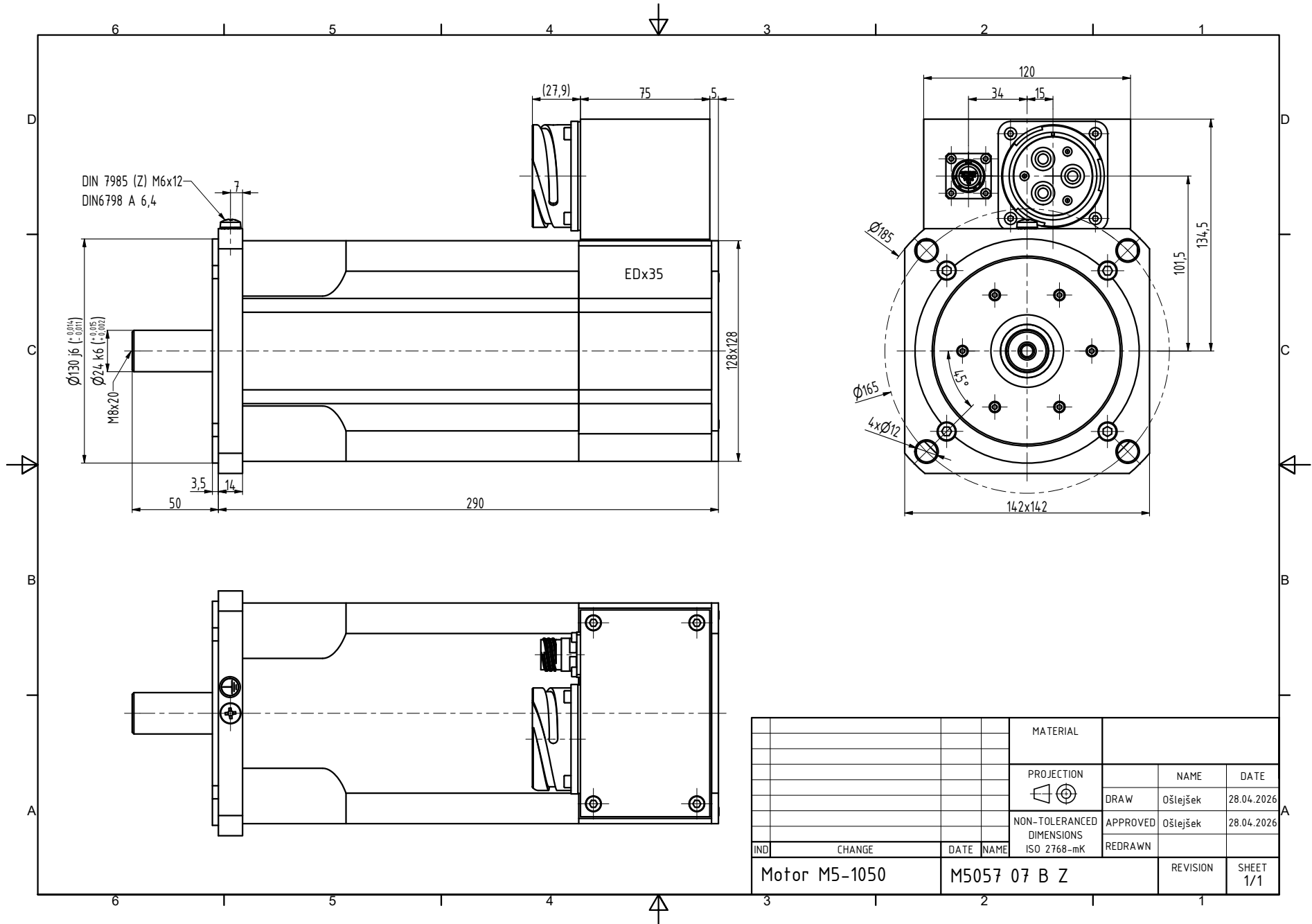
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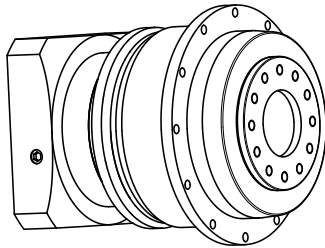
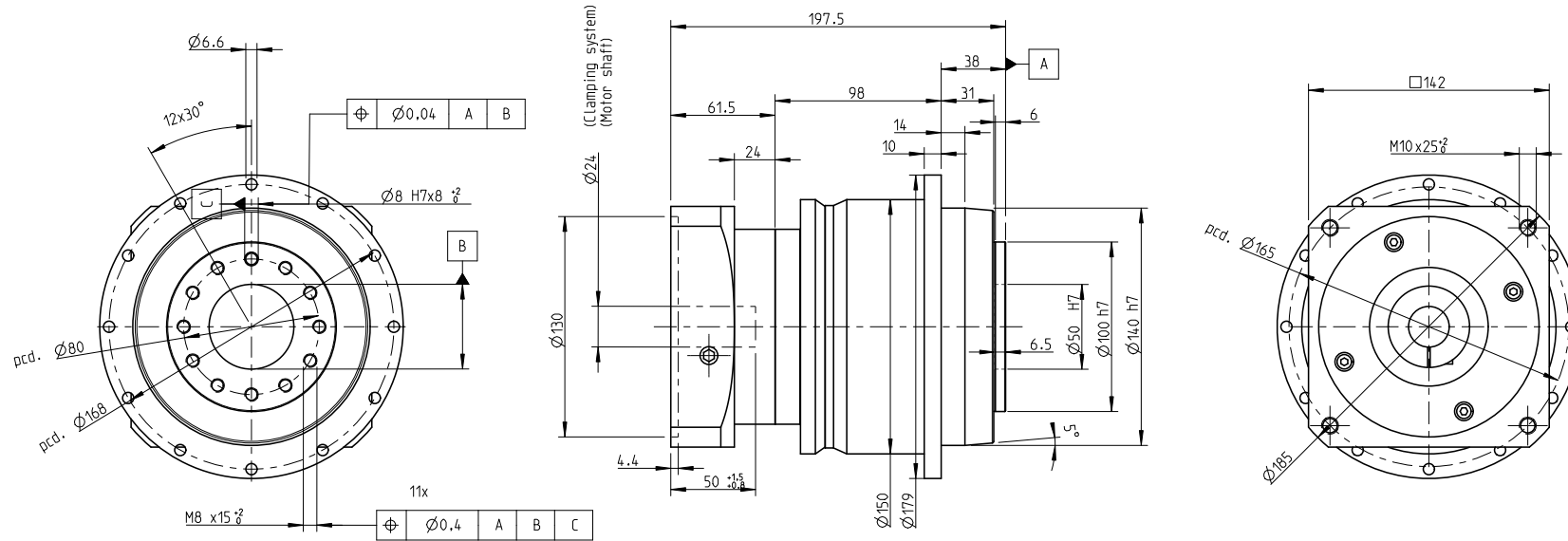


Connector 2 (402)

1	+Us/DSL+
2	GND/DSL-







INDEX	ZMĚNA	DATUM	PODPIS		
ZM.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
ROZM. ZAR.				ČSN	TR.Č.
VYPR.		NORM. REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.		SCHVÁLIL.		STARÝ V.	Č.V.
NÁZEV					
Gearbox SGFN140				TGN5, TGT5, TGH5	
				Listů	List