

Engineering motordata (WIN 1726)

DC bus voltage	24 V DC
Nominal AC voltage	17 V AC (rms)
Rated voltage	13 V AC (rms)
Rated power	2.6 kW
Rated speed	3000 rpm
Rated torque	8.40 Nm
Rated current	131.42 A (rms)
Peak torque	20 Nm
Peak current	358.11 A (rms)
Stall torque	11.6 Nm
Stall current	172.74 A (rms)
No load speed	4180 rpm
EMF constant ±10%	4.1 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.07 Nm / A (rms)
Torque constant ±10% @ rated load	0.06 Nm / A (rms)
Number of poles	10
Electrical time constant	6.67 ms
Winding terminal resistance	0.003 Ω
Rotary field terminal inductance	0.02 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 5)

Max mechanical speed	9000 rpm
Mech. time constant	0.95 ms
Thermal time constant	40 min
Rotor inertia	8.4 kgcm ²
Protection	IP65
Color	RAL 9005
Cooling	Convection

Sensors

Temperature	PT1000 {PT1000}
Feedback	2-pole resolver (ER5Kd411, TS2620N21E11, RE-15-1-A15)

Brake

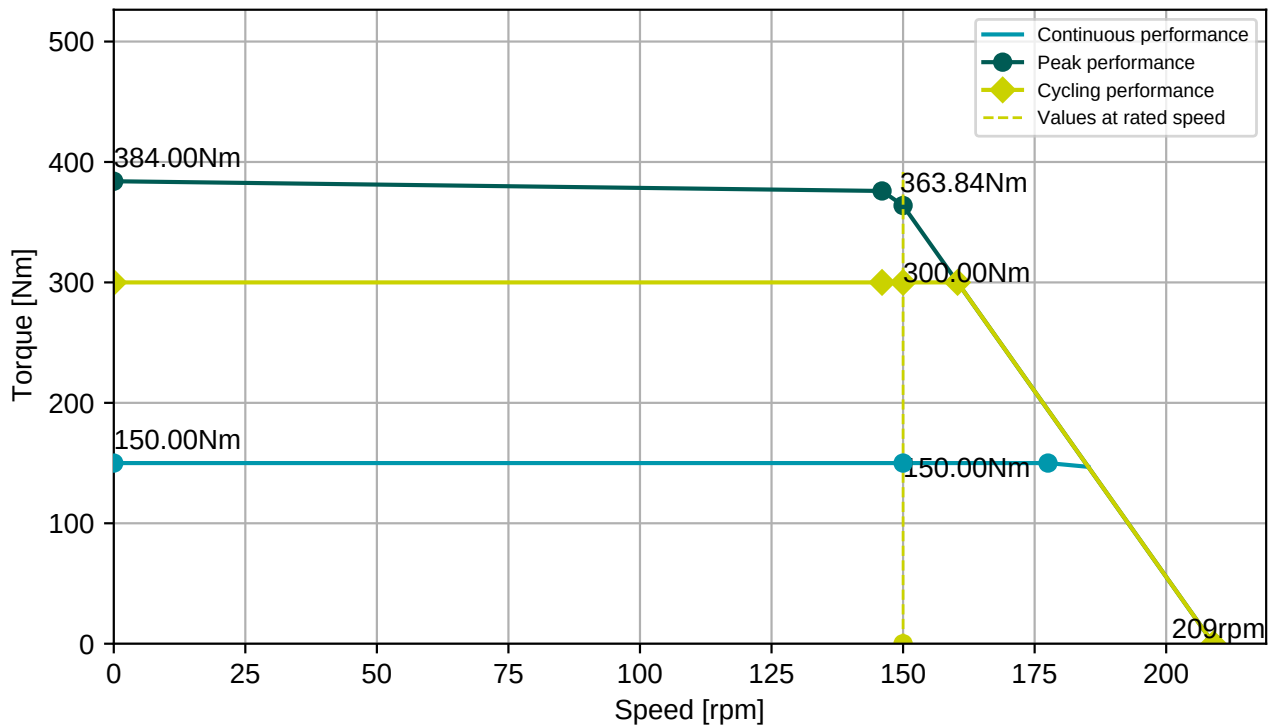
Braking torque	18.00 Nm
Voltage	24 V DC
Power @20°C	24.0 W
Current @20°C	1.00 A
Inertia	2.00 kgcm ²
Mass	1.80 kg

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	20	Radial force for 20'000h	4900 N
Efficiency	96 %*	Radial force for 30'000h	4350 N
Torsional stiffness	76 Nm/arcmin	Max. radial force	4900 N
Number of stages	2	Axial force for 20'000h	9500 N
Rated output torque	150 Nm	Axial force for 30'000h	8400 N
Cycling output torque	300 Nm	Max. axial force	9500 N
Max output torque	480 Nm	Tilting moment for 20'000h	475 Nm
Emergency output torque	650 Nm	Tilting moment for 30'000h	422 Nm
Rated input speed	3750 rpm	Max. bending moment	38 Nm
Max input speed	10000 rpm	Output shaft design	Flange
Operating temperature	<-40; 60> °C	Mass	7.65 kg
Max. backlash	< 1 arcmin	Input inertia	2.038 kgcm ²
Service life	20000 h	Protection	IP65

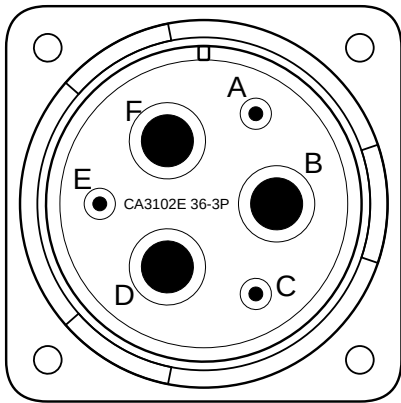
* at rated speed & torque

Lubrication		Actuator data	
Type	Low temperature	Rated speed	150 rpm
Lubricant	Klübersynth GH 6-32	Rated torque	150.00 Nm
		Cycling torque	300.00 Nm
		Peak torque	384.00 Nm
		Emergency stop torque	400.00 Nm
		EMF constant ±10%	82.0 V AC (rms) / 1000rpm
		Torque constant ±10% @ rated load	1.23 Nm / A (rms)
		Output inertia	4175.2 kgcm ²

Torque / speed curve



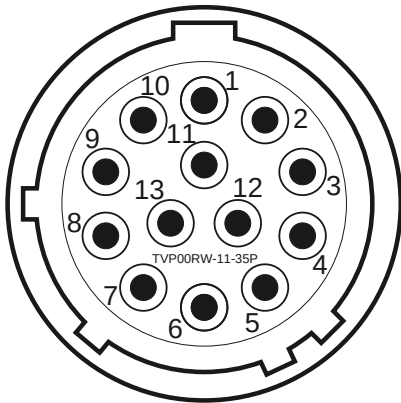
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Connector 1 (454)

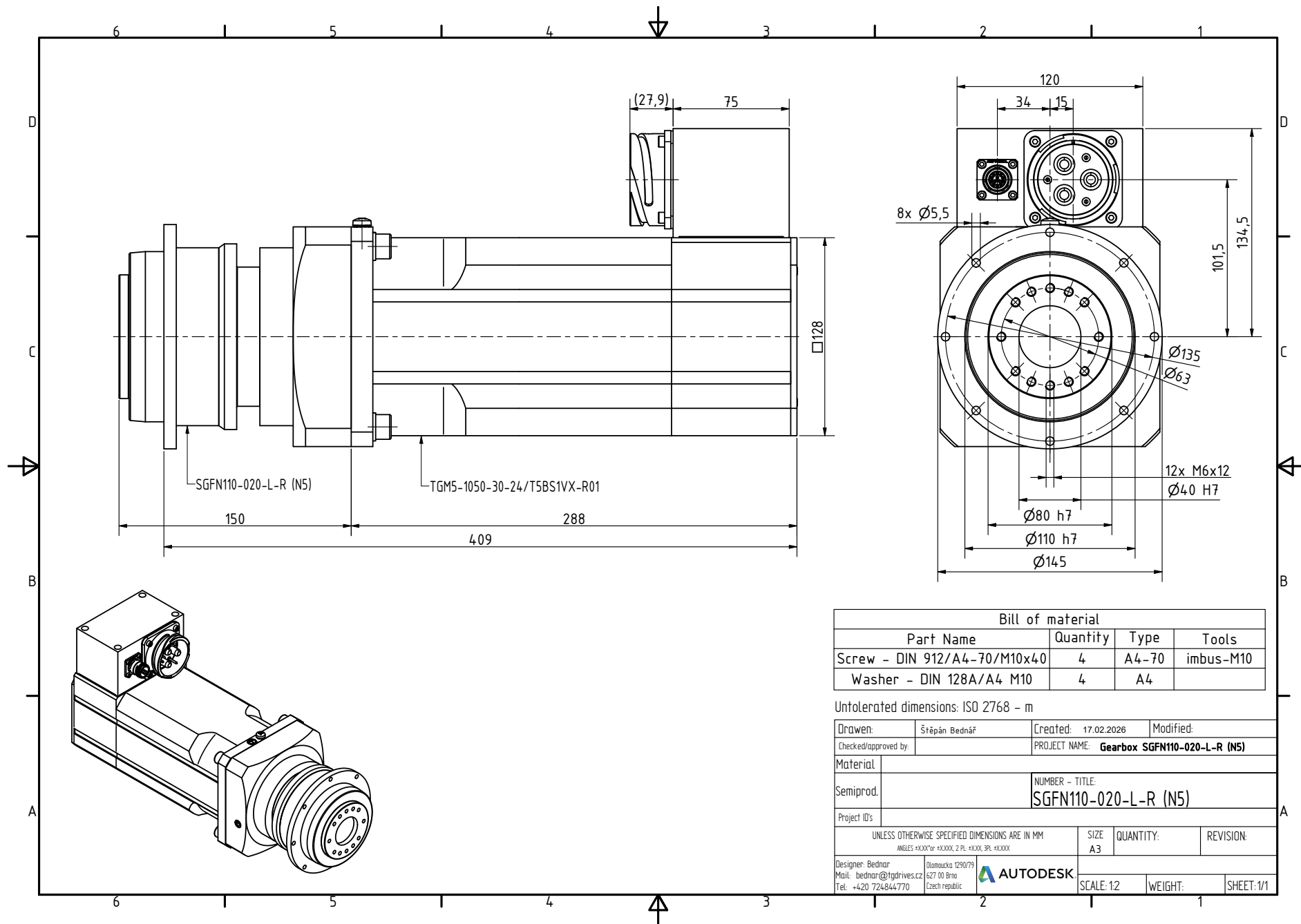
B	U
C	Brake+
D	V
E	Brake-
F	W

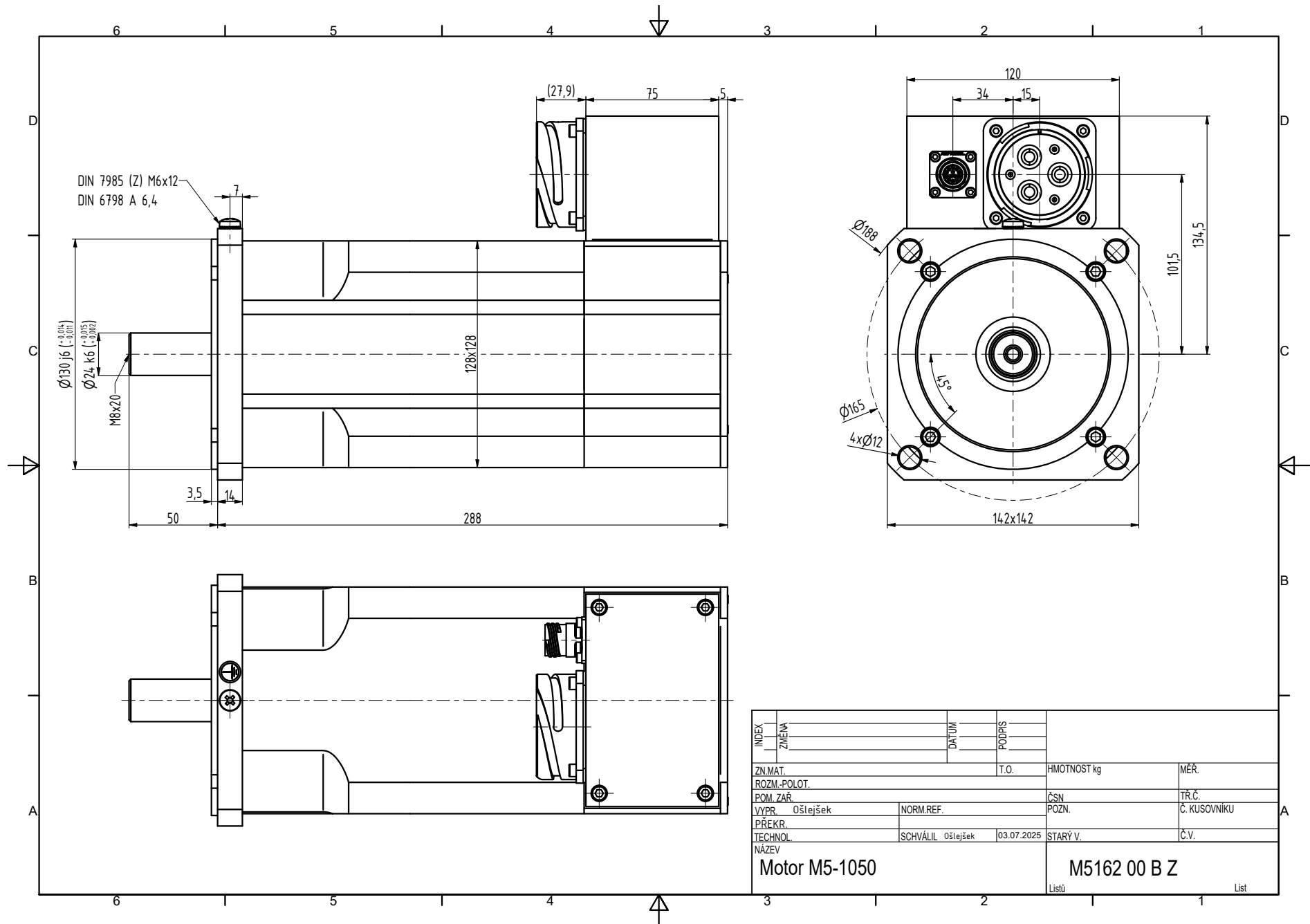
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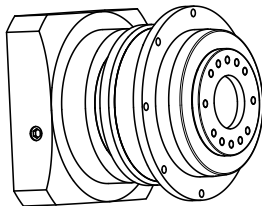
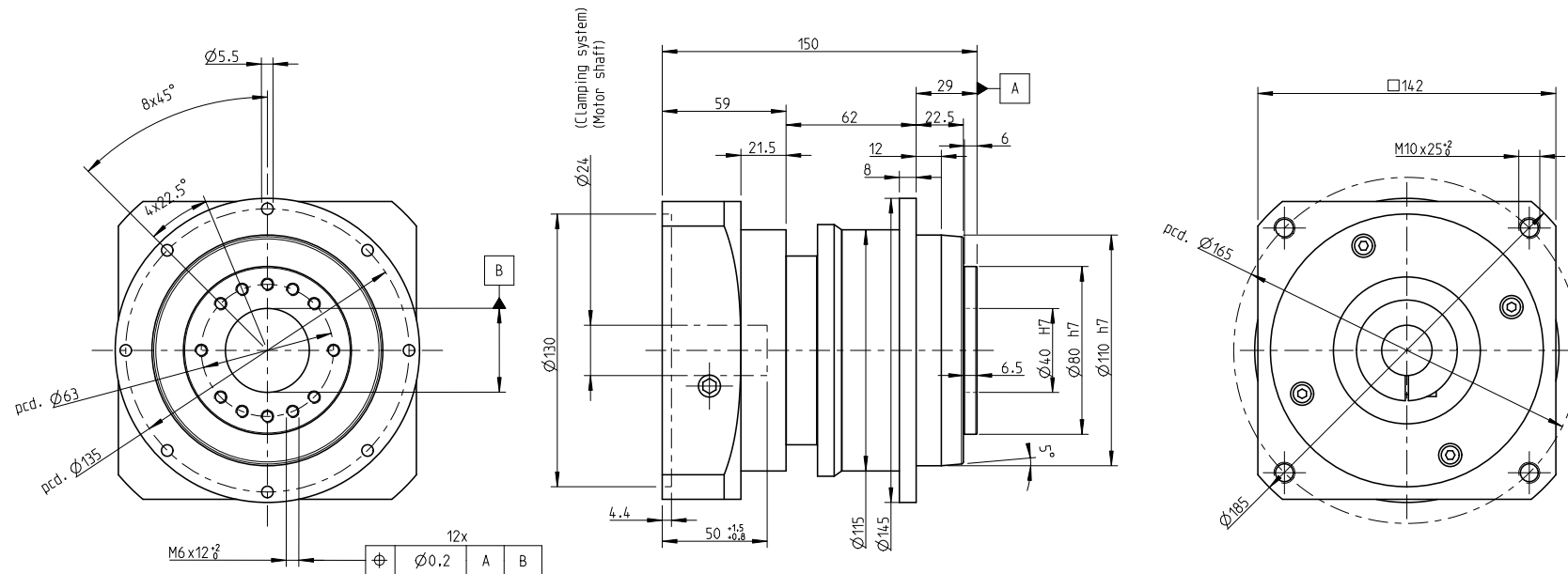


Connector 2 (267)

1	S1
2	S3
3	S4
4	S2
5	R2
6	R1
7	Temp+
8	Temp-
9	Loopback+
10	Loopback-







INDEX	ZMĚNA	DATUM	PODPIS		
ZM.MAT.	T.O.		HMOTNOST kg	MĚŘ.	
ROZM.-POLOH.			ČSN	TR.Č.	
ROZM. ZAR.			POZN.	Č. KUSOVNÍKU	
VYPR.	NORM. REF.				
PREKR.					
TECHNOL.	SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.	
NÁZEV			TGN5, TGT5, TGH5		
Gearbox SGFN110			Listů List		