

Engineering motordata (WIN 1423)

DC bus voltage	24 V DC
Nominal AC voltage	17 V AC (rms)
Rated voltage	14 V AC (rms)
Rated power	461 W
Rated speed	4000 rpm
Rated torque	1.10 Nm
Rated current	23.45 A (rms)
Peak torque	6 Nm
Peak current	106.5 A (rms)
Stall torque	2.2 Nm
Stall current	38.4 A (rms)
No load speed	4890 rpm
EMF constant ±10%	3.46 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.057 Nm / A (rms)
Torque constant ±10% @ rated load	0.047 Nm / A (rms)
Number of poles	10
Electrical time constant	1.14 ms
Winding terminal resistance	0.035 Ω
Rotary field terminal inductance	0.04 mH

Customs info

HS Code	85015100
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Mechanical motor data (setting 75)

Max mechanical speed	12000 rpm
Mech. time constant	1.57 ms
Thermal time constant	32 min
Rotor inertia	0.85 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection

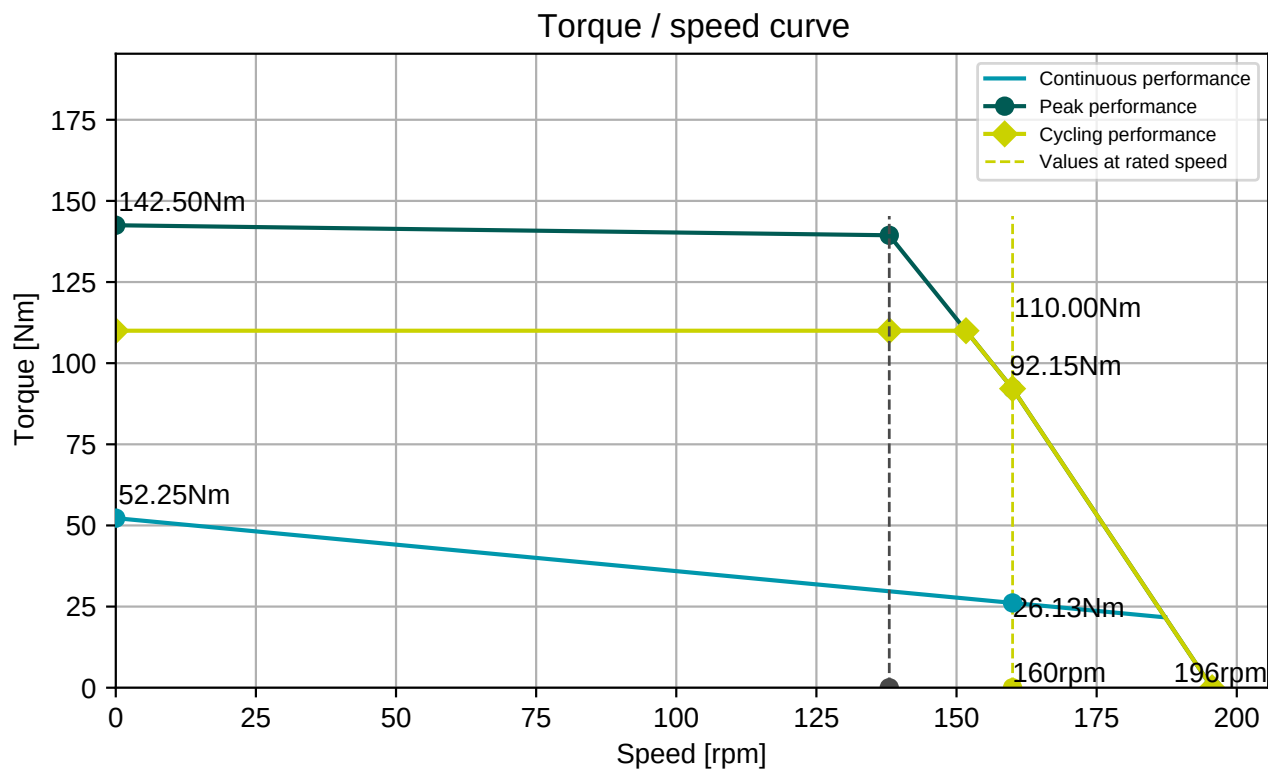
Sensors

Temperature	PT1000 {PT1000}
Feedback	AD36/0017AH.0TBEB (Hengstler) single-turn, 17 bits, BISS-C, 5VDC

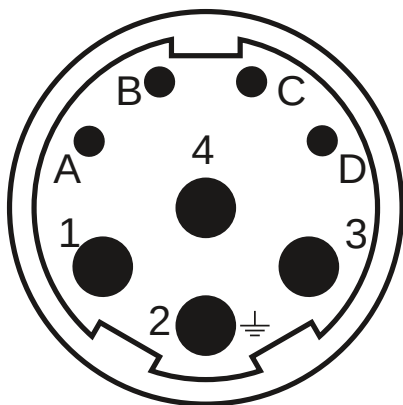
Brake

Braking torque	4.50 Nm
Voltage	24 V DC
Power @20°C	12.0 W
Current @20°C	0.50 A
Inertia	0.20 kgcm ²
Mass	0.47 kg

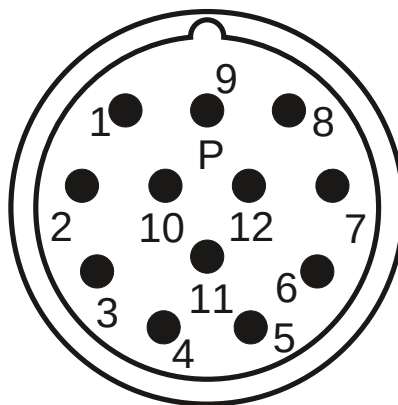
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	25	Radial force for 20'000h	750 N*
Efficiency	95 %*	Radial force for 30'000h	650 N*
Torsional stiffness	10.3 Nm/arcmin	Max. radial force	1250 N*
Number of stages	2	Axial force for 20'000h	1000 N
Rated output torque	93 Nm	Axial force for 30'000h	900 N
Cycling output torque	110 Nm	Max. axial force	1600 N
Max output torque	176 Nm	Output shaft design	Shaft key
Emergency output torque	220 Nm	Mass	2.63 kg
Rated input speed	4000 rpm	Input inertia	0.404 kgcm ²
Max input speed	7000 rpm	Protection	IP54
Operating temperature	<-25; 90> °C	* Defined for point of action at ½ output shaft length	
Max. backlash	< 9 arcmin	Actuator data	
Service life	20000 h	Rated speed	160 rpm
* at rated speed & torque		Rated torque	26.13 Nm
		Cycling torque	110.00 Nm
		Peak torque	142.50 Nm
		Emergency stop torque	150.00 Nm
Lubrication		EMF constant ±10%	86.5 V AC (rms) / 1000rpm
Type	Standard	Torque constant ±10% @ rated load	1.11 Nm / A (rms)
Lubricant	Grease (lifetime lubrication)	Output inertia	783.8 kgcm ²


BGC110N00001216000

M23, 8 poles, rotary


AGC052N00001215000

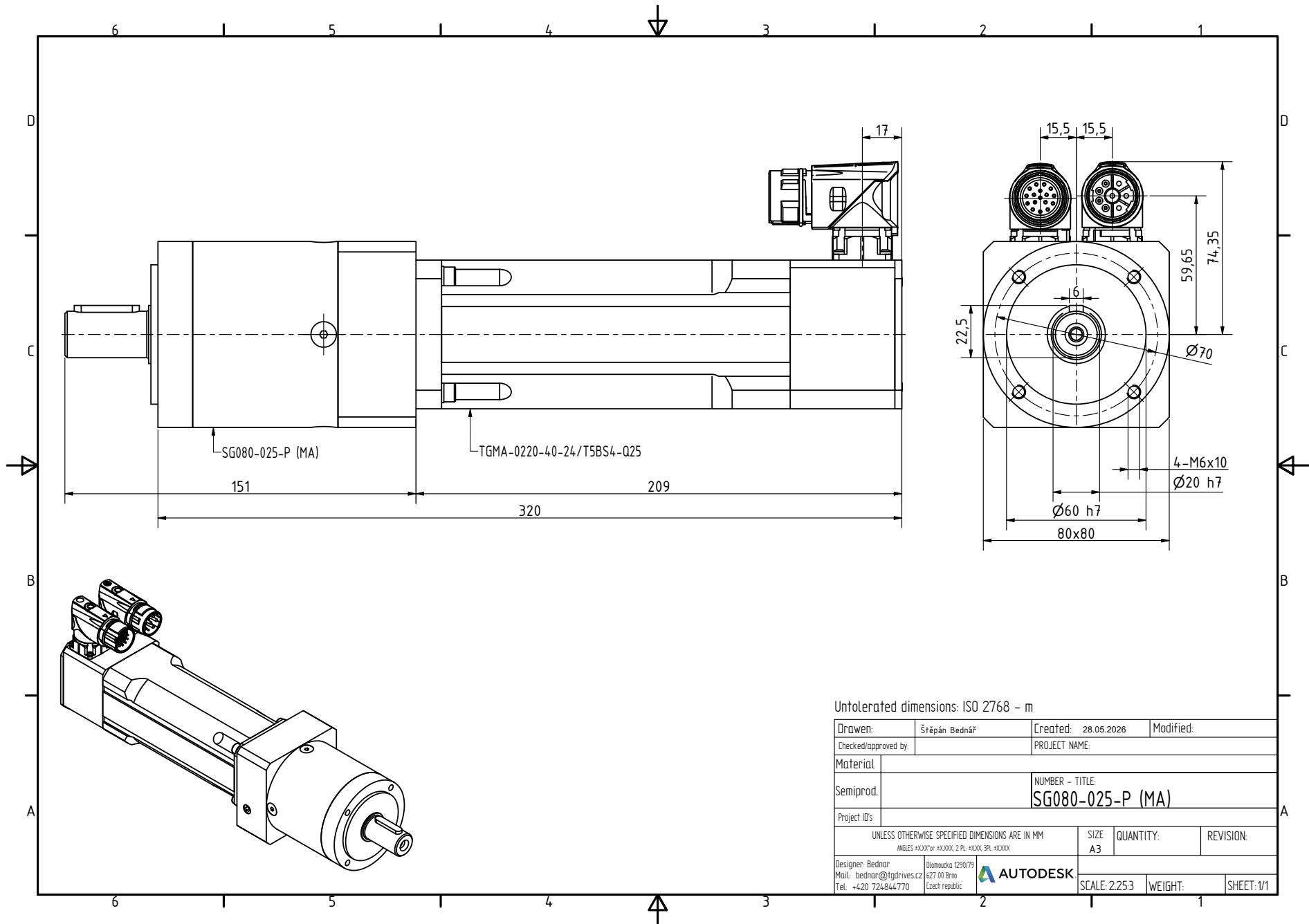
M23, 12 poles, rotary

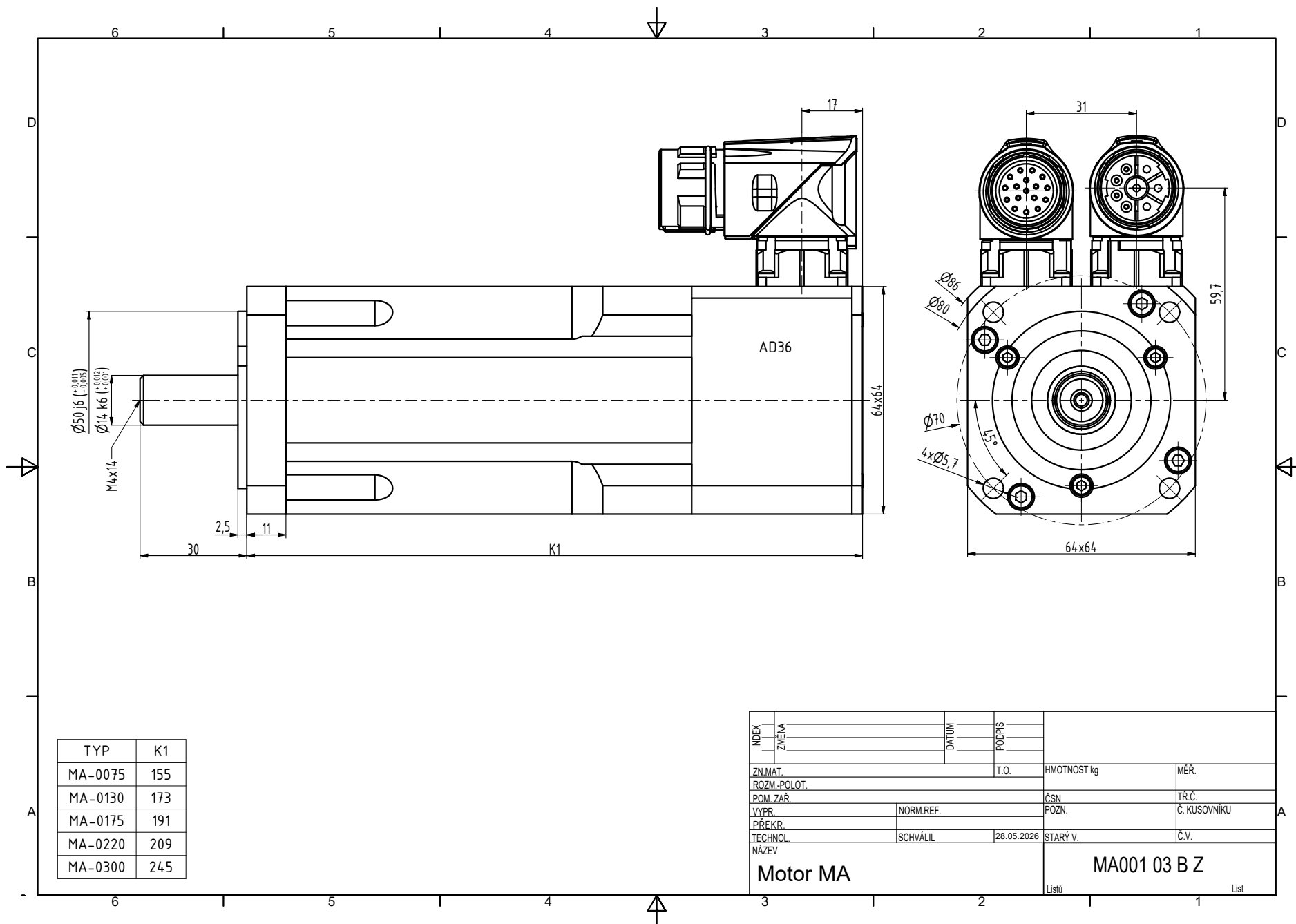

Connector 1 (9)

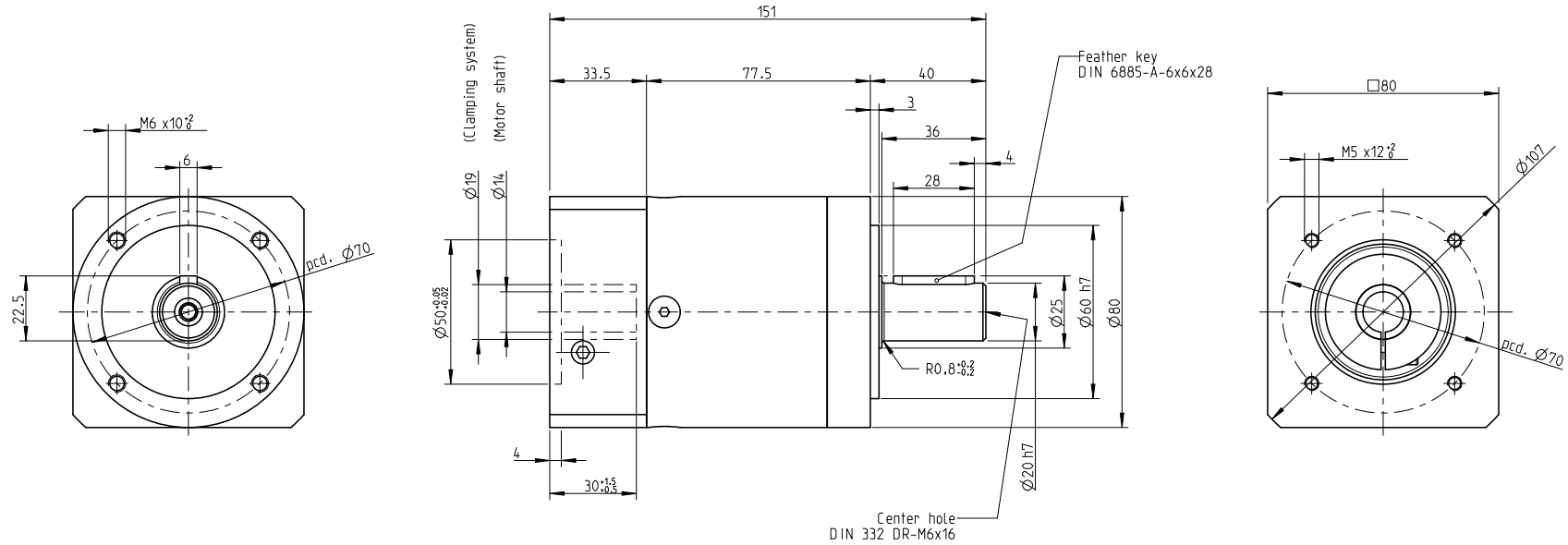
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	
D	

Connector 2 (458)

1	Vcc
2	GND
3	DATA
4	DATA-
5	CLOCK
6	CLOCK-
7	Therm+
8	Therm-







INDEX	ZMENA	DATUM	PODPIS		
ZM.MAT.			T.O.	HMOTNOST kg	MEŘ.
ROZM.-POLOT.					
ROZM. ZAR.				ČSN	TR.Č.
VYPR.	NORM. REF.			POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.	SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.	
NÁZEV				TGMA	
Gearbox SG080				Listů	List