

Engineering motordata (WIN -100108)

DC bus voltage	48 V DC
Nominal AC voltage	33 V AC (rms)
Rated voltage	31 V AC (rms)
Rated power	864 W
Rated speed	5000 rpm
Rated torque	1.65 Nm
Rated current	17.95 A (rms)
Peak torque	8.1 Nm
Peak current	103.26 A (rms)
Stall torque	3.1 Nm
Stall current	32.26 A (rms)
No load speed	5670 rpm
EMF constant ±10%	5.8 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.1 Nm / A (rms)
Torque constant ±10% @ rated load	0.1 Nm / A (rms)
Number of poles	10
Electrical time constant	4.74 ms
Winding terminal resistance	0.038 Ω
Rotary field terminal inductance	0.18 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 48)

Max mechanical speed	9000 rpm
Mech. time constant	1.19 ms
Thermal time constant	35 min
Rotor inertia	1.67 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	4 kg

Sensors

Temperature	PT1000 {PT1000}
Feedback	EES37 (HDSL) single-turn, 17 bits

Gearbox engineering data

Gear ratio	25
Efficiency	95 %*
Torsional stiffness	10.4 Nm/arcmin
Number of stages	2
Rated output torque	93 Nm
Cycling output torque	110 Nm
Max output torque	176 Nm
Emergency output torque	220 Nm
Rated input speed	4000 rpm
Max input speed	7000 rpm
Operating temperature	<-25; 90> °C
Max. backlash	< 9 arcmin
Service life	20000 h

* at rated speed & torque

Lubrication

Type	Standard
Lubricant	Grease (lifetime lubrication)

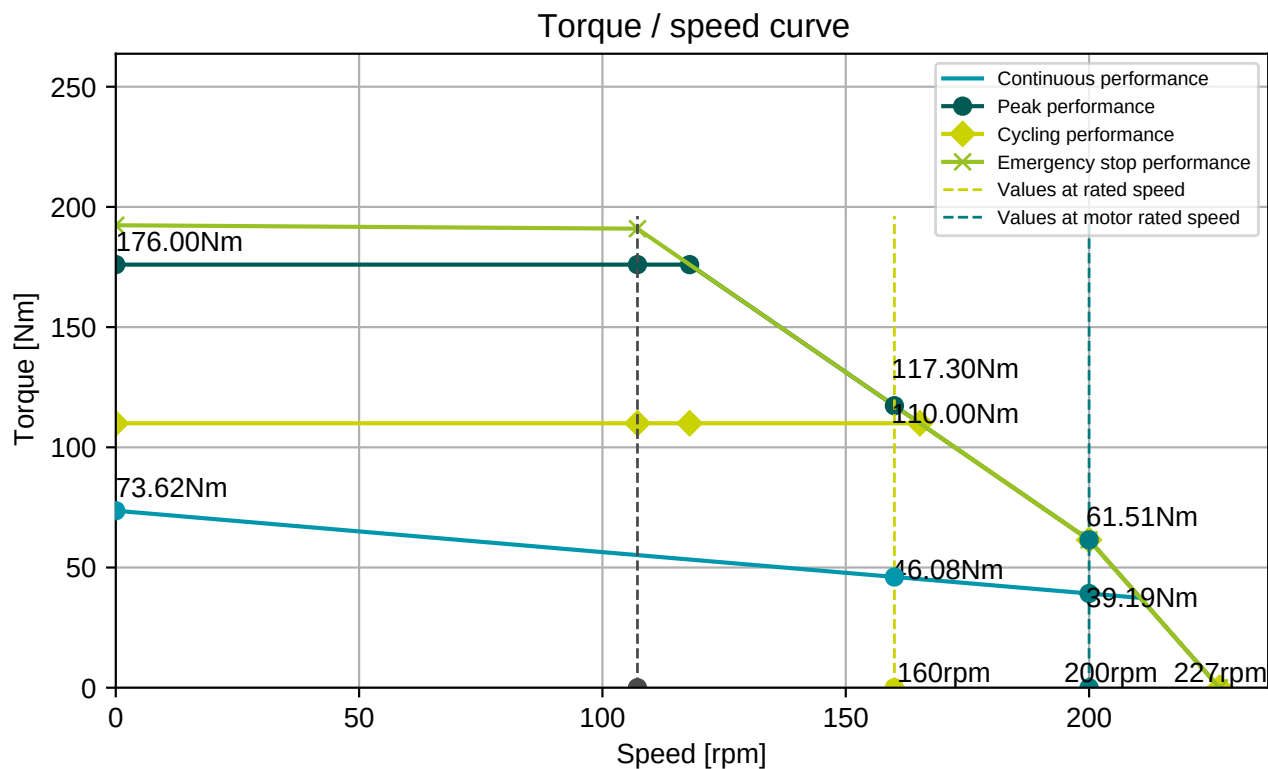
Gearbox mechanical data

Max. radial force	1000 N*
Max. axial force	1450 N
Output shaft design	Shaft key
Mass	2.8 kg
Input inertia	0.404 kgcm ²
Protection	IP54

* Defined for point of action at ½ output shaft length

Actuator data

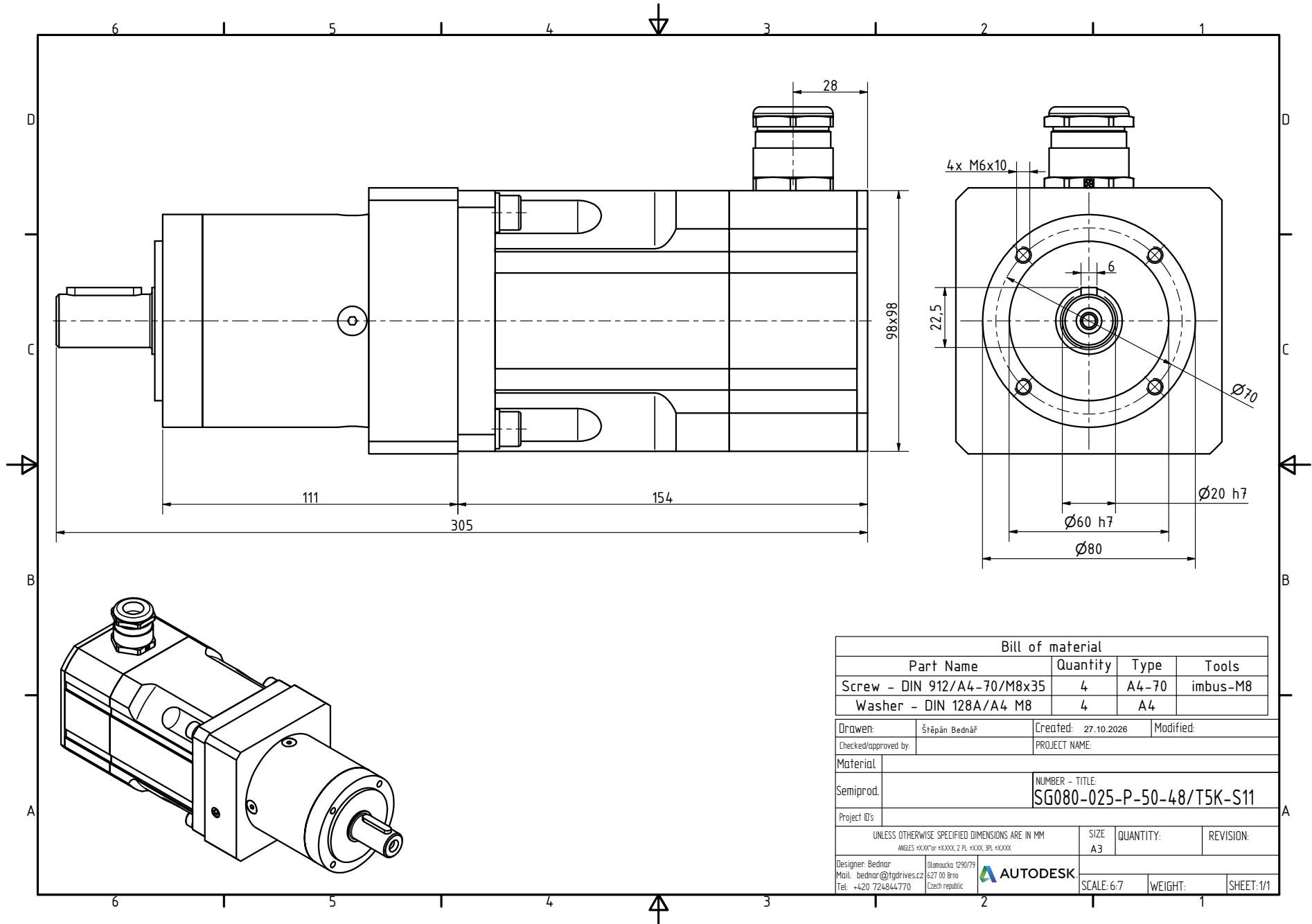
Rated speed	160 rpm
Rated torque	46.08 Nm
Cycling torque	110.00 Nm
Peak torque	176.00 Nm
Emergency stop torque	202.50 Nm
EMF constant ±10%	145.0 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	2.18 Nm / A (rms)
Total mass	6.80 kg
Output inertia	1296.2 kgcm ²

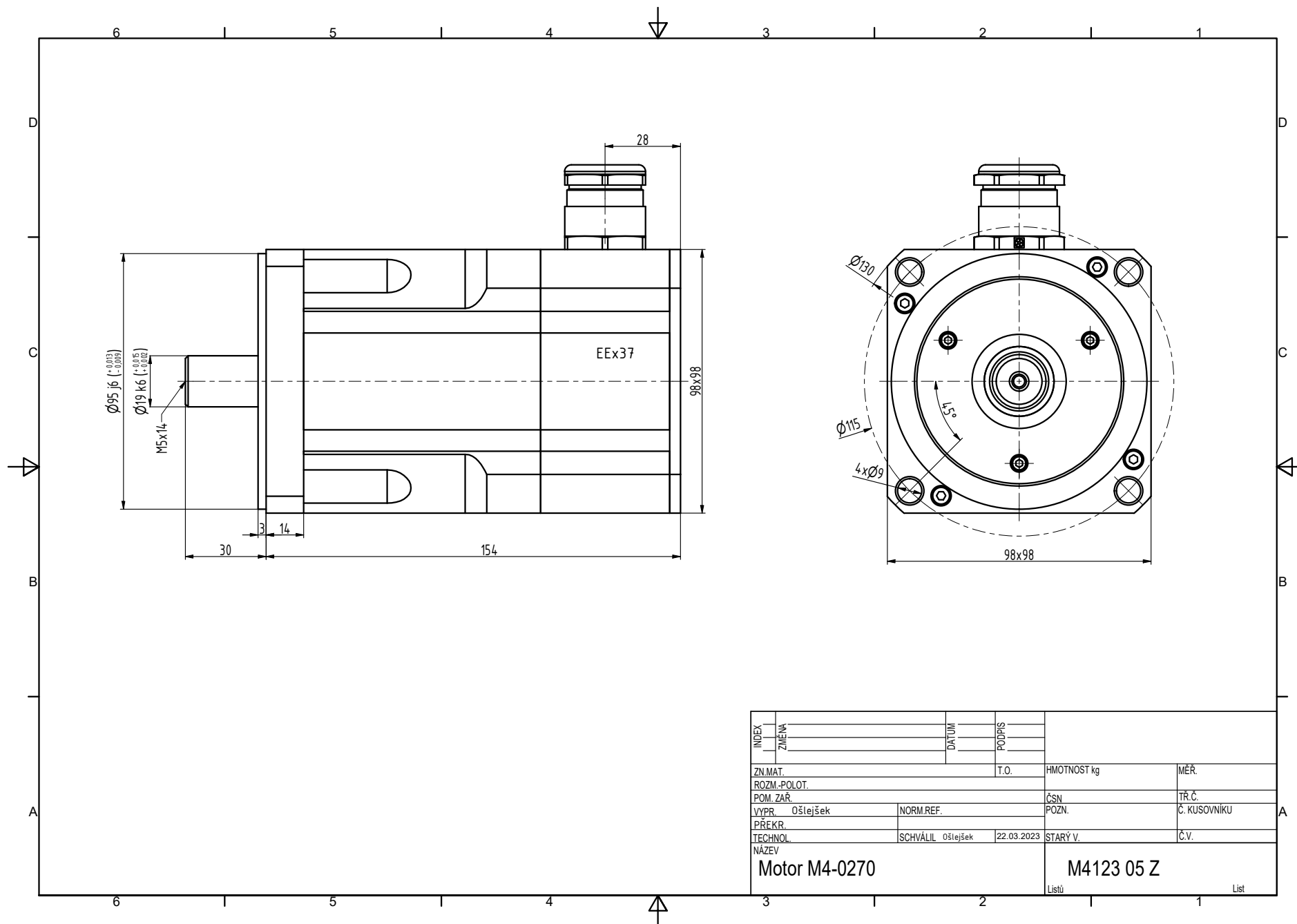


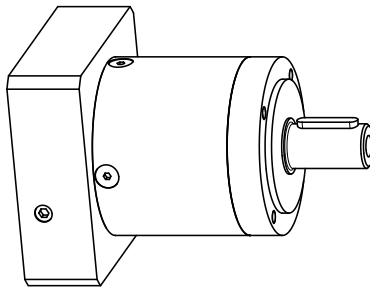
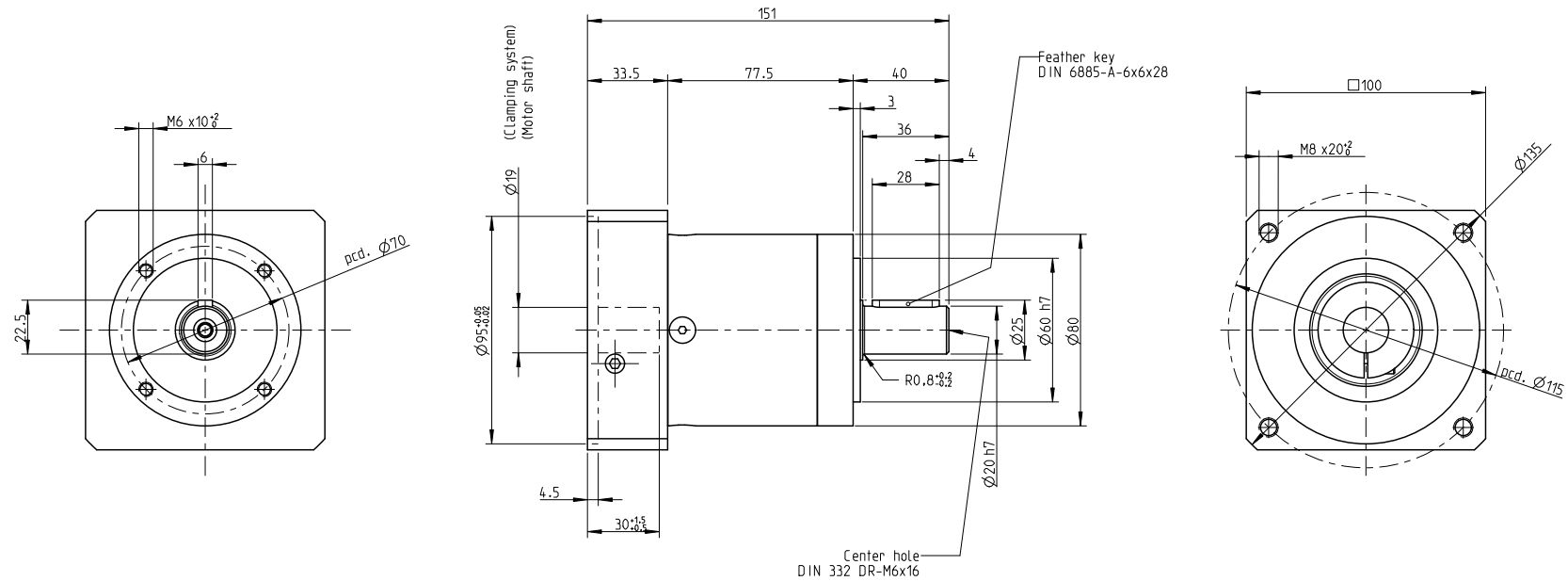
**Cable DSL4x6 (2x0,25)+(2x1,5),
D=16,6±0,4mm**

Connector 1 (306)	
1	U
2	V
3	W
PE	PE
5	Brake+
6	Brake-
brown	+Us/DSL+
white	GND/DSL-

Numbers printed on the cables







INDEX	ZMĚNA	DATUM	PODPIS	
ZM.MAT.		T.O.		HMOTNOST kg
ROZM.-POLOIT.				MĚŘ.
ROZM. ZAŘ.				ČSN.
VYPR.	NORM. REF.			TR.Č.
PREKR.				Č. KUSOVNÍKU
TECHNOL.	SCHVÁLIL.			STARÝ V.
NAZEV				Č.V.
Gearbox SG080				TGN4, TGH4, TGT4
				Listů List