

Engineering motordata (WIN -100015)

DC bus voltage	48 V DC
Nominal AC voltage	33 V AC (rms)
Rated voltage	31 V AC (rms)
Rated power	1.9 kW
Rated speed	3000 rpm
Rated torque	6.10 Nm
Rated current	40.52 A (rms)
Peak torque	23.4 Nm
Peak current	216.23 A (rms)
Stall torque	8.6 Nm
Stall current	54.62 A (rms)
No load speed	3460 rpm
EMF constant ±10%	9.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.16 Nm / A (rms)
Torque constant ±10% @ rated load	0.15 Nm / A (rms)
Number of poles	10
Electrical time constant	6.00 ms
Winding terminal resistance	0.02 Ω
Rotary field terminal inductance	0.12 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 48)

Max mechanical speed	9000 rpm
Mech. time constant	0.69 ms
Thermal time constant	44 min
Rotor inertia	4.9 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	4 kg

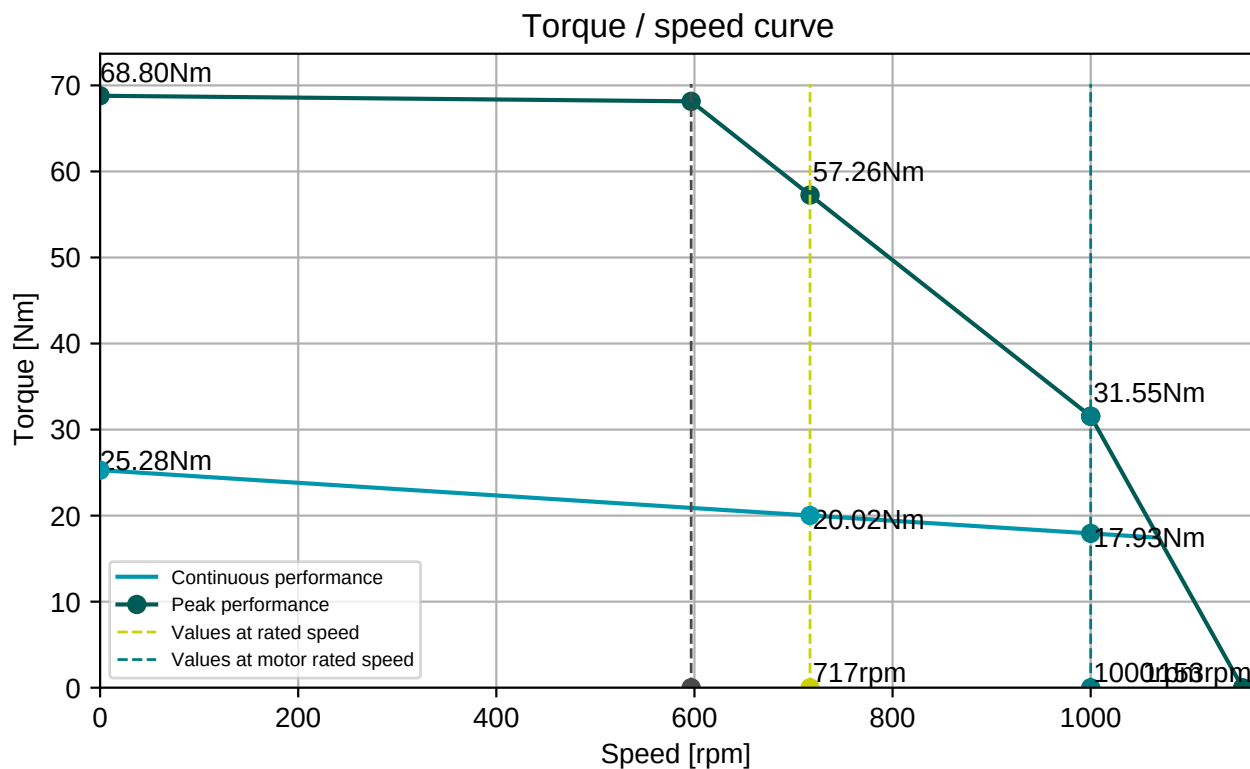
Sensors

Temperature	PT1000 {PT1000}
Feedback	EEM37 (HDSL) multi-turn, 17+12 bits

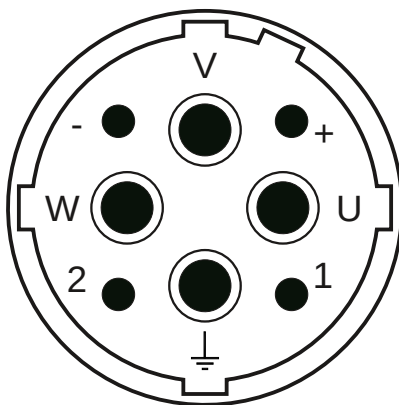
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	3	Radial force for 20'000h	1750 N*
Efficiency	98 %*	Radial force for 30'000h	1500 N*
Torsional stiffness	21 Nm/arcmin	Max. radial force	2000 N*
Number of stages	1	Axial force for 20'000h	2500 N
Rated output torque	97 Nm	Axial force for 30'000h	2100 N
Cycling output torque	115 Nm	Max. axial force	3800 N
Max output torque	184 Nm	Tilting moment for 20'000h	101 Nm
Emergency output torque	375 Nm	Tilting moment for 30'000h	86 Nm
Rated input speed	2150 rpm	Max. bending moment	40 Nm
Max input speed	6500 rpm	Output shaft design	Shaft key
Operating temperature	<-25; 90> °C	Mass	5.67 kg
Max. backlash	< 7 arcmin	Input inertia	2.361 kgcm ²
Service life	20000 h	Protection	IP54
* at rated speed & torque		* Defined for point of action at ½ output shaft length	

Lubrication	
Type	Standard
Lubricant	Grease (lifetime lubrication)

Actuator data	
Rated speed	717 rpm
Rated torque	20.02 Nm
Cycling torque	68.80 Nm
Peak torque	68.80 Nm
Emergency stop torque	70.20 Nm
EMF constant ±10%	28.5 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	0.44 Nm / A (rms)
Total mass	9.67 kg
Output inertia	65.3 kgcm ²

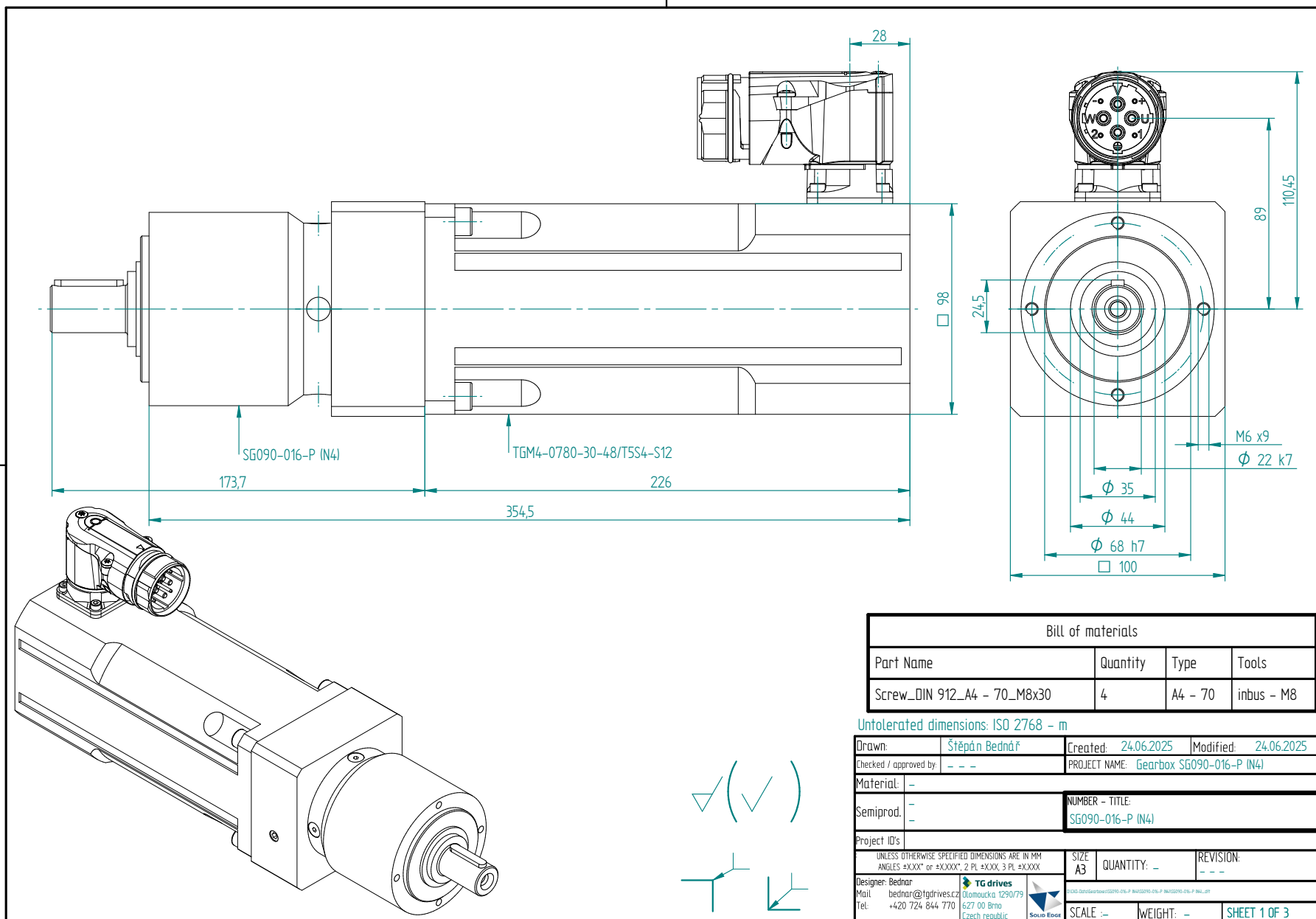


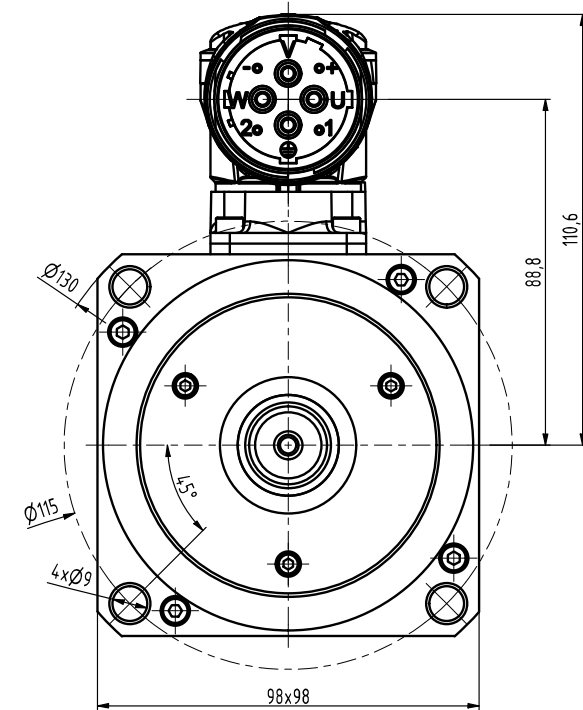
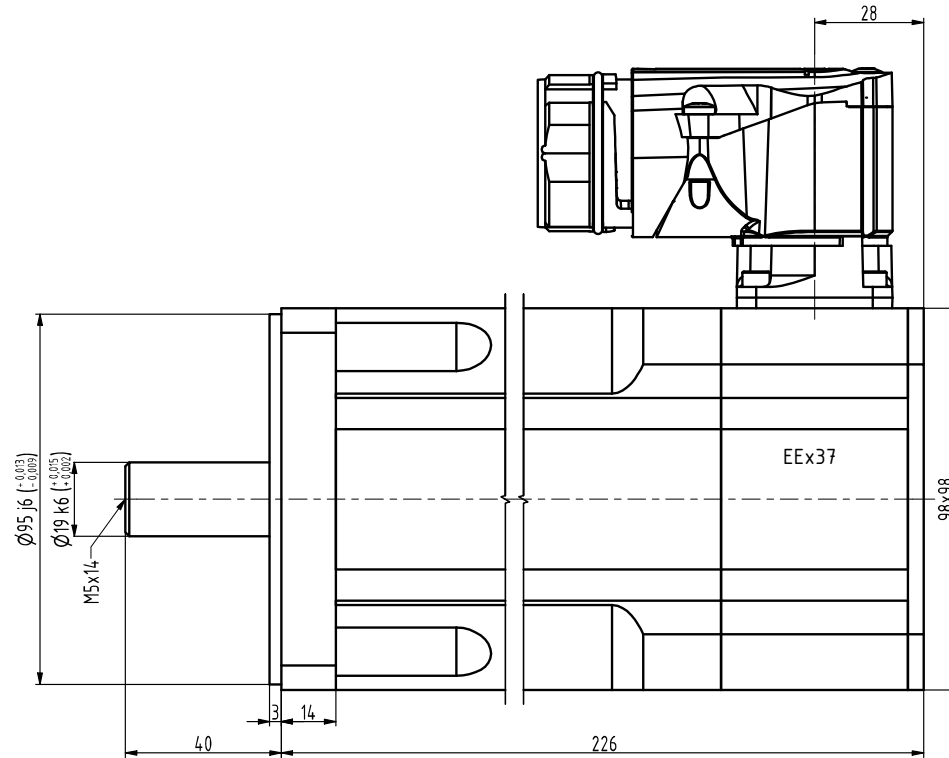
CEA271N00000051000
M40, 8 poles, rotary base



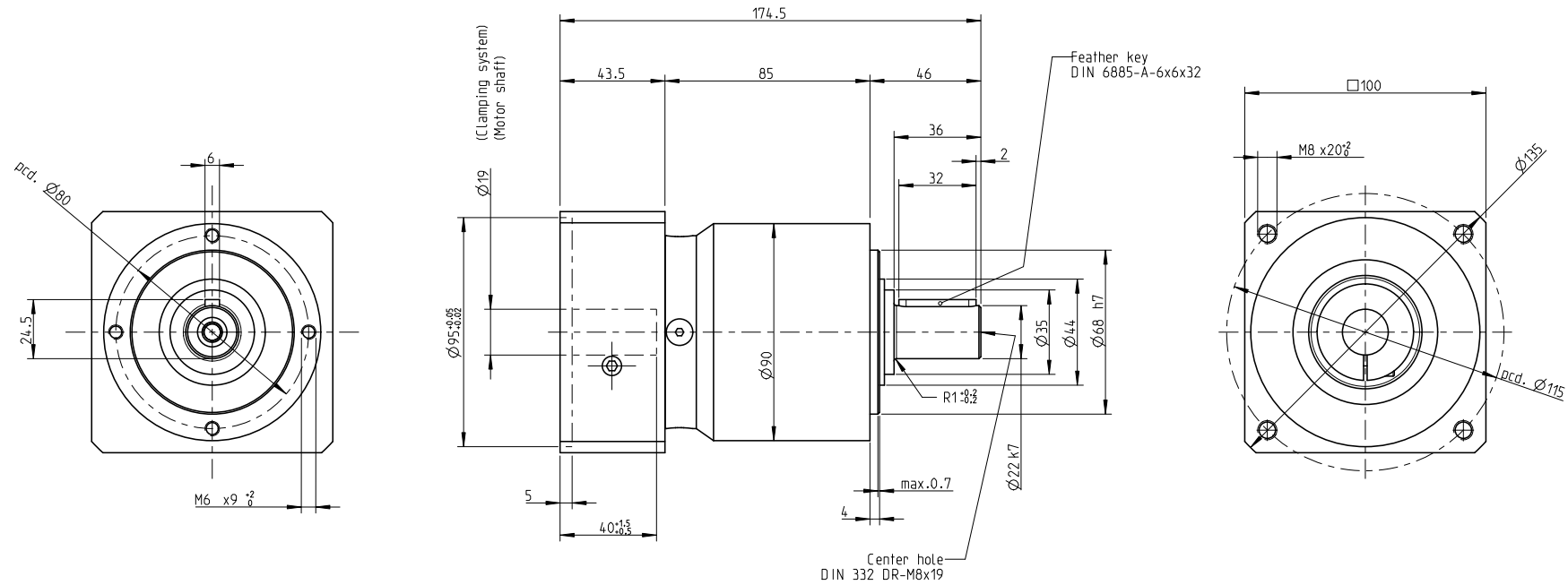
Connector 1 (151)

U	U
V	V
W	W
PE	PE
+	Brake+
-	Brake-
1	Therm+
2	Therm-





INDEX	ZMĚNA	DATUM	PODPIS		
ZN.MAT.			T.O.	HMOTNOST kg	MĚR.
ROZM.-POLOT.					
POM. ZAŘ.				ČSN	TR.Č.
VÝPR. Ošlejšek	NORM.REF.			POZN.	Č. KUSOVNIKU
PŘEKR.					
TECHNOL.	SCHVÁLIL Ošlejšek	22.03.2023	STARÝ V.		Č.V.
NÁZEV	Motor M4-0780			M4123 05 Z	
				Listů	List



INDEX	ZHĚNA	DATA	PODPIS		
ZMMAT.			T.O.	HMOTNOST kg	MĚR.
ROZM.-POLOT.					
ROZM. ZAR.				ČSN	TRČ.
VYPR.	NORM. REF.		POZN.	Č. KUSOVNIKU	
PŘEKR.					
TECHNOL.	SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.	
NÁZEV	Gearbox SG090			TGN4, TGH4, TGT4	
				Listů	List