

Engineering motordata (WIN 782)

DC bus voltage	320 V DC
Nominal AC voltage	220 V AC (rms)
Rated voltage	173 V AC (rms)
Rated power	1.3 kW
Rated speed	4500 rpm
Rated torque	2.75 Nm
Rated current	5.25 A (rms)
Peak torque	10.5 Nm
Peak current	18.9 A (rms)
Stall torque	3.5 Nm
Stall current	5.2 A (rms)
No load speed	5420 rpm
EMF constant ±10%	40.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.67 Nm / A (rms)
Torque constant ±10% @ rated load	0.52 Nm / A (rms)
Number of poles	10
Electrical time constant	2.89 ms
Winding terminal resistance	1.8 Ω
Rotary field terminal inductance	5.2 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 48)

Max mechanical speed	12000 rpm
Mech. time constant	0.72 ms
Thermal time constant	27 min
Rotor inertia	1.04 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	2.9 kg
Max. axial force 20kh	59 N
Max. radial force 20kh	311 N*
Max. axial force 100kh	35 N
Max. radial force 100kh	182 N*

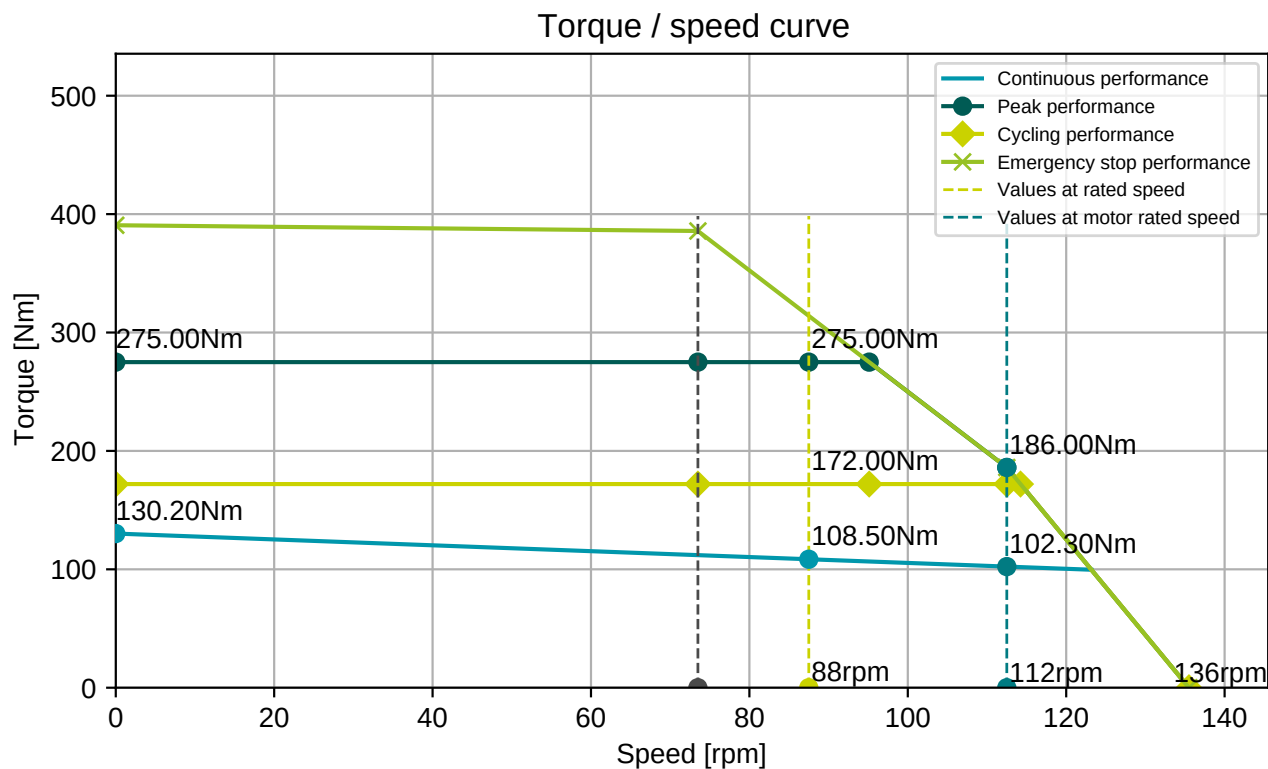
* Defined for point of action at ½ output shaft length

Sensors

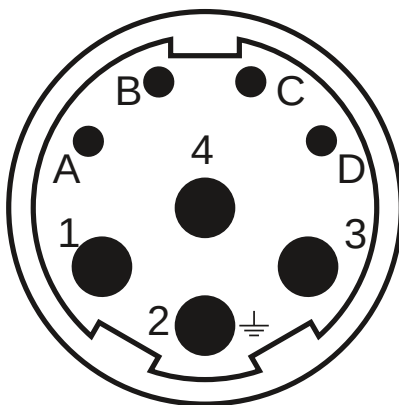
Temperature	PT1000 {PT1000}
Feedback	EEM37 (HDSL) multi-turn, 17+12 bits

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	40	Radial force for 20'000h	1750 N*
Efficiency	93 %*	Radial force for 30'000h	1500 N*
Torsional stiffness	20 Nm/arcmin	Max. radial force	2000 N*
Number of stages	2	Axial force for 20'000h	2500 N
Rated output torque	146 Nm	Axial force for 30'000h	2100 N
Cycling output torque	172 Nm	Max. axial force	3800 N
Max output torque	275 Nm	Tilting moment for 20'000h	101 Nm
Emergency output torque	500 Nm	Tilting moment for 30'000h	86 Nm
Rated input speed	3500 rpm	Max. bending moment	40 Nm
Max input speed	6500 rpm	Output shaft design	Shaft key
Operating temperature	<-25; 90> °C	Mass	9.52 kg
Max. backlash	< 9 arcmin	Input inertia	1.419 kgcm ²
Service life	20000 h	Protection	IP54
* at rated speed & torque		* Defined for point of action at ½ output shaft length	

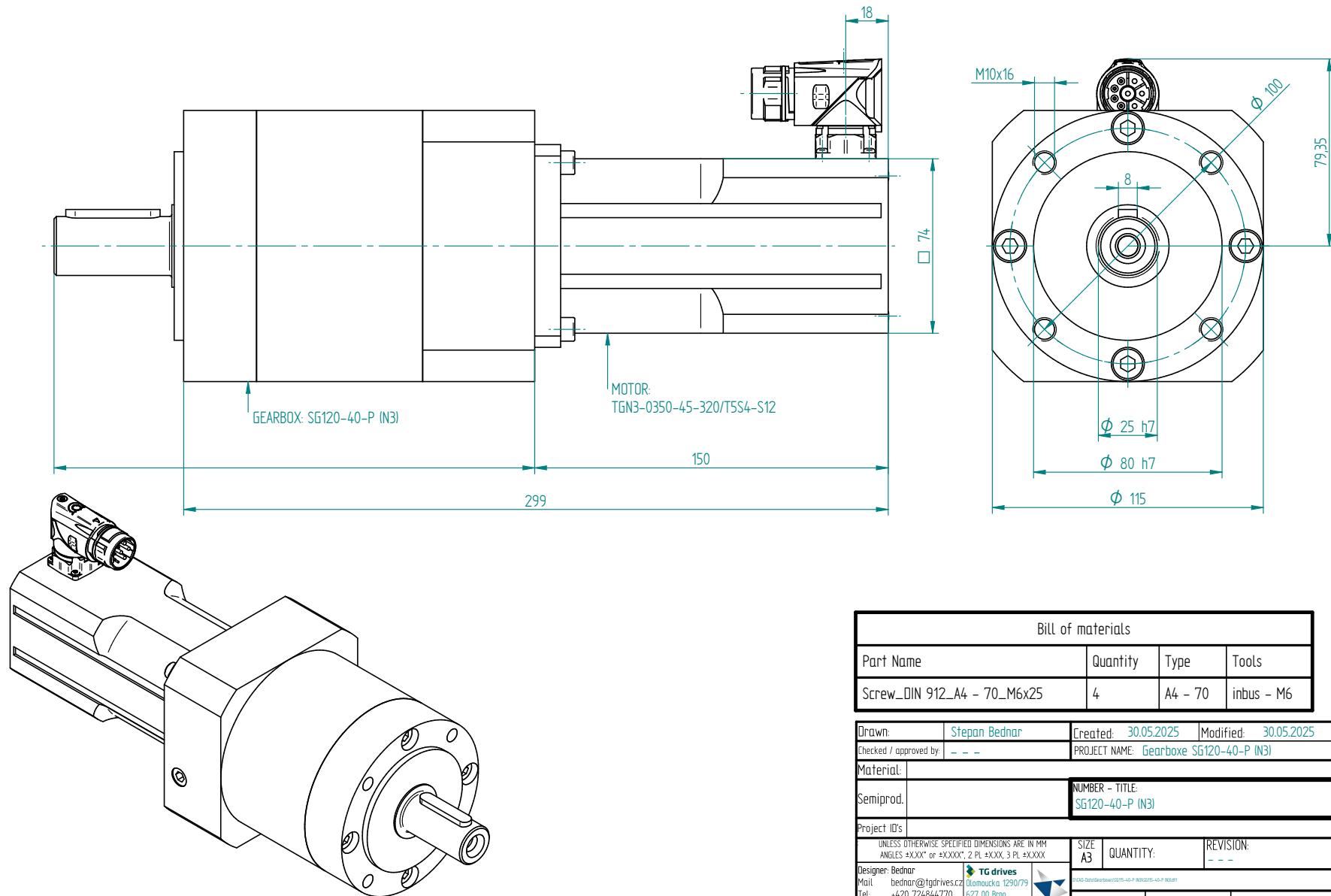
Lubrication		Actuator data	
Type	Standard	Rated speed	88 rpm
Lubricant	Grease (lifetime lubrication)	Rated torque	108.50 Nm
		Cycling torque	172.00 Nm
		Peak torque	275.00 Nm
		Emergency stop torque	420.00 Nm
		EMF constant ±10%	1620.0 V AC (rms) / 1000rpm
		Torque constant ±10% @ rated load	19.49 Nm / A (rms)
		Total mass	12.42 kg
		Output inertia	3934.4 kgcm ²

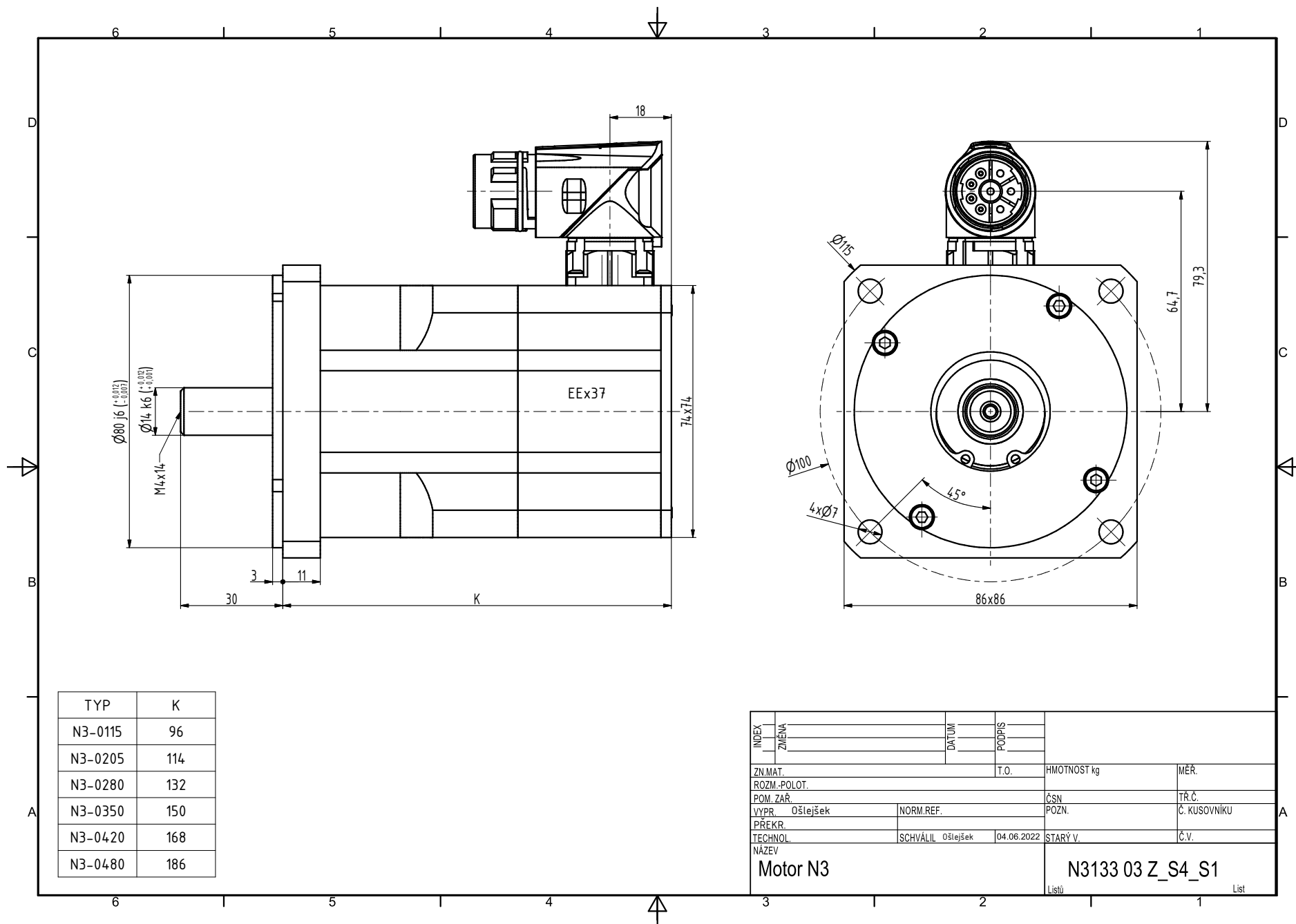

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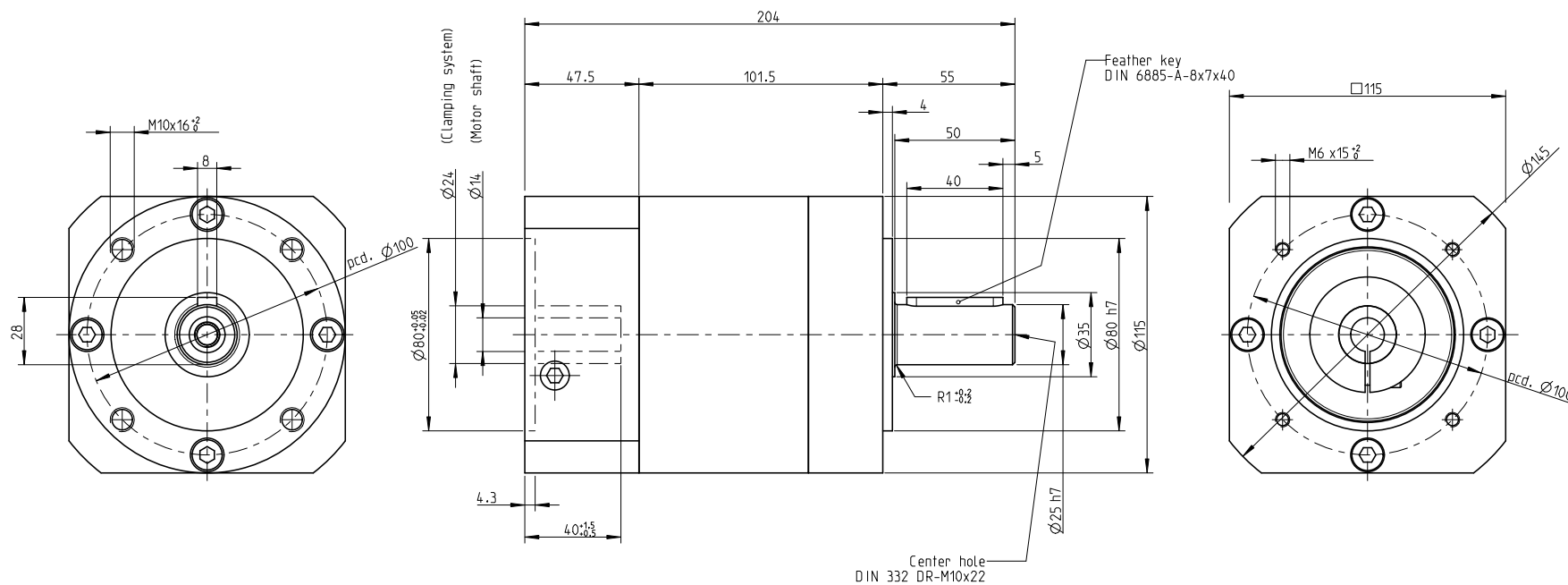
M23, 8 poles, rotary


Connector 1 (283)

1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	GND/DSL-
D	+Us/DSL+







INDEX	ZMENA	DATUM	PODPIS		
ZMMAT.			T.O.	HMOTNOST kg	MÉR.
ROZM.-POLOT.				ČSN	TRČ.
ROZM. ZAR.				POZN.	Č. KUSOVNÍKU
VYPR.	NORM. REF.			STARÝ V.	Č.V.
PŘEKR.					
TECHNOL.	SCHVÁLIL.	12.9.2020			
NÁZEV	Gearbox SG115			TGN3, TGH3, TGT3	
				Listů	List