

Engineering motordata (WIN 1564)

DC bus voltage	48 V DC
Nominal AC voltage	33 V AC (rms)
Rated voltage	18 V AC (rms)
Rated power	270 W
Rated speed	3000 rpm
Rated torque	0.86 Nm
Rated current	12.72 A (rms)
Peak torque	2.4 Nm
Peak current	43.3 A (rms)
Stall torque	0.95 Nm
Stall current	11.8 A (rms)
No load speed	6700 rpm
EMF constant ±10%	4.88 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.081 Nm / A (rms)
Torque constant ±10% @ rated load	0.068 Nm / A (rms)
Number of poles	10
Electrical time constant	1.97 ms
Winding terminal resistance	0.173 Ω
Rotary field terminal inductance	0.34 mH

Customs info

HS Code	85015100
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Mechanical motor data (setting 5)

Max mechanical speed	12000 rpm
Mech. time constant	2.30 ms
Thermal time constant	25 min
Rotor inertia	0.5 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	2.5 kg

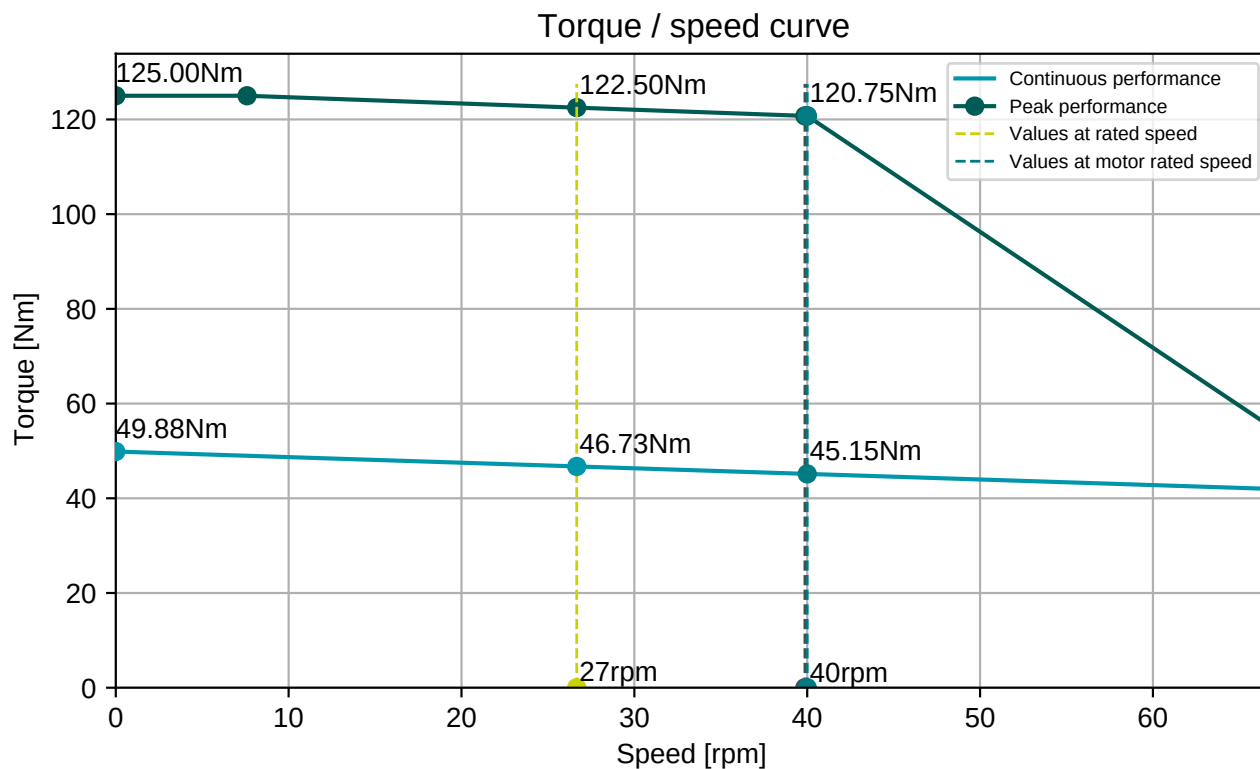
Sensors

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

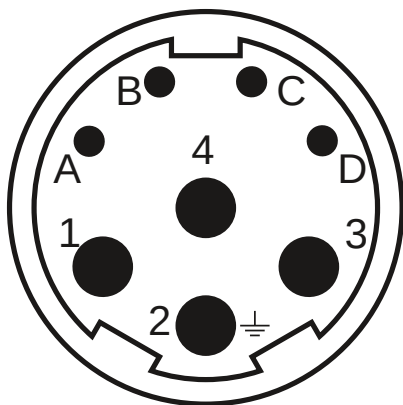
Brake

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

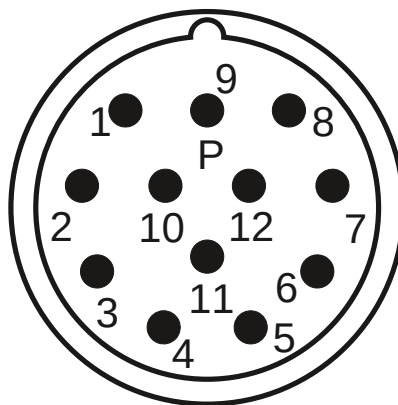
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	75	Max. radial force	2800 N
Efficiency	70 %*	Max. axial force	4100 N
Torsional stiffness	8 Nm/arcmin	Output shaft design	Flange
Rated output torque	50 Nm	Mass	1.35 kg
Max output torque	125 Nm	Input inertia	0.061 kgcm ²
Rated input speed	2000 rpm	Protection	IP64
Max input speed	5000 rpm	Actuator data	
Operating temperature	<-25; 50> °C	Rated speed	27 rpm
Max. backlash	< 0.5 arcmin	Rated torque	46.73 Nm
Service life	6000 h	Peak torque	125.00 Nm
* at rated speed & torque		EMF constant ±10%	366.0 V AC (rms) / 1000rpm
Lubrication		Torque constant ±10% @ rated load	3.55 Nm / A (rms)
Type	Standard	Total mass	4.32 kg
Lubricant	Mobil SHC150	Output inertia	3155.6 kgcm ²


BGC110N00001216000

M23, 8 poles, rotary


AGC052N00001215000

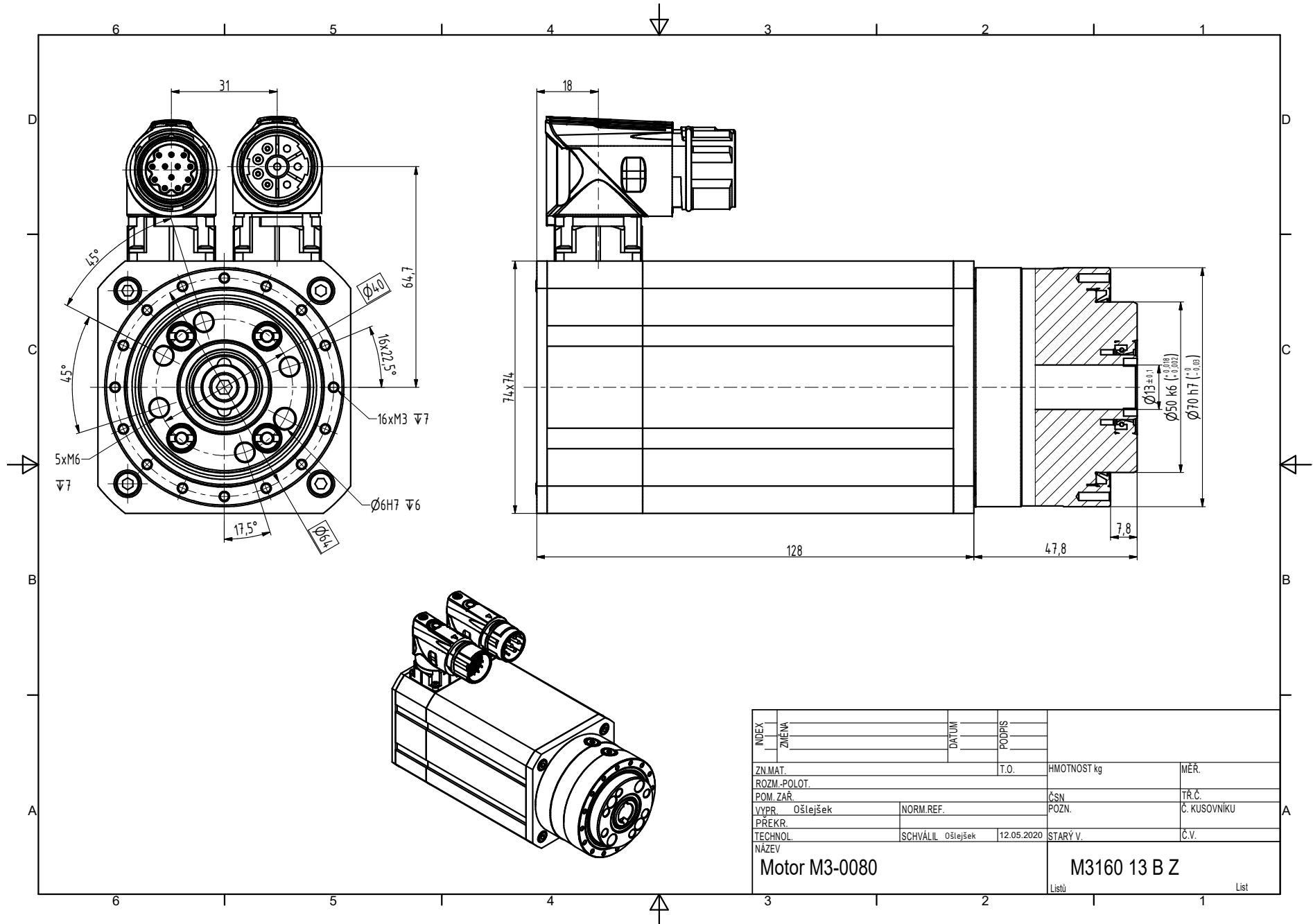
M23, 12 poles, rotary


Connector 1 (9)

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

Connector 2 (10)

2	Therm+
3	S4
4	S3
5	R2
6	Therm-
7	S2
8	S1
9	R1



INDEX	ZNAČKA	DATUM	PODPIS		
ZN.MAT.			T.O.	HMOTNOST kg	MĚR.
ROZM.-POLOT.					
POM. ZAŘ.				ČSN	TR.Č.
VYPR. Ošlejšek		NORM. REF.		POZN.	Č. KUSOVNIKU
PREKR.					
TECHNOL.		SCHVÁLIL Ošlejšek	12.05.2020	STARÝ V.	Č.V.
NÁZEV					
Motor M3-0080				M3160 13 B Z	
				Listů	List