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

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	kgcm²
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	kgcm²
Mass	0.47	kg

Gearbox engineering data		
Gear ratio	75	
Efficiency*	70	%
Torsional stiffness	8	Nm/arcmin
Rated output torque	50	Nm
Max output torque	125	Nm
Rated input speed	2000	rpm
Max input speed	5000	rpm
Operating temperature	<-25; 50>	°C
Max. backlash	< 0.5	arcmin
Service life	6000	h

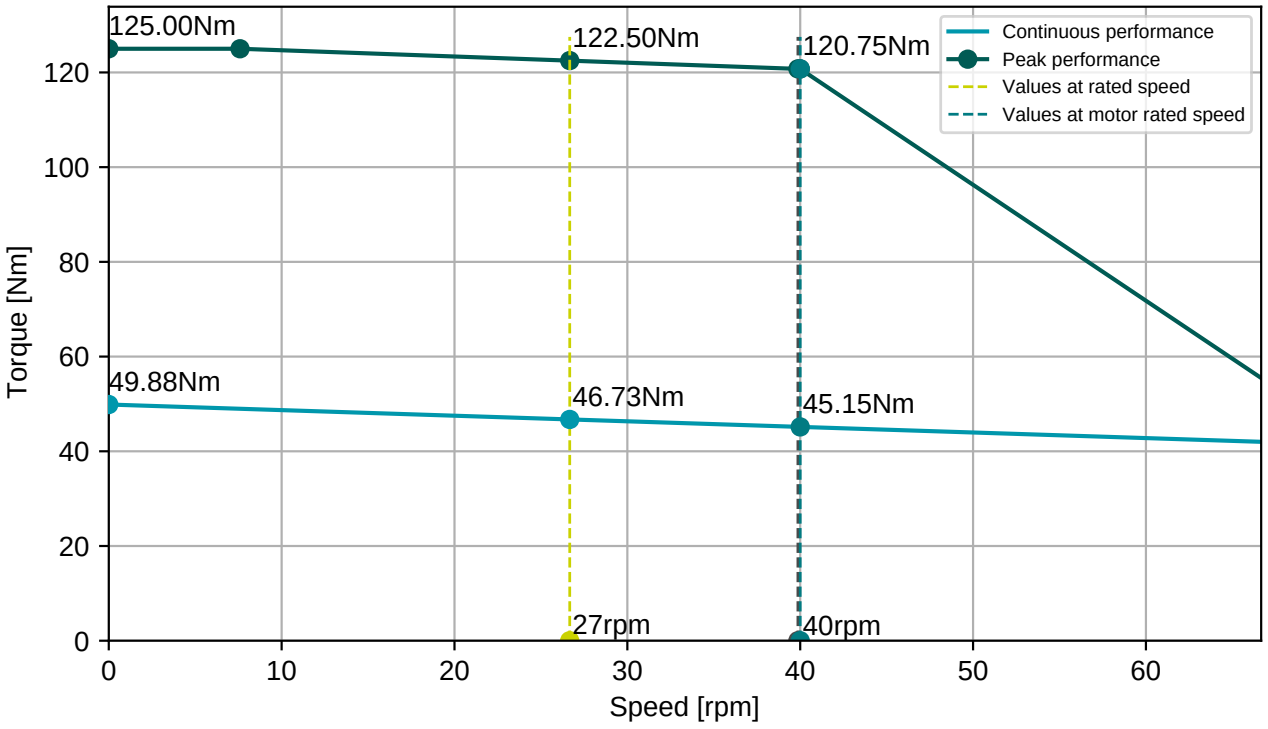
** at rated speed & torque*

Lubrication	
Type	Standard
Lubricant	Mobil SHC150

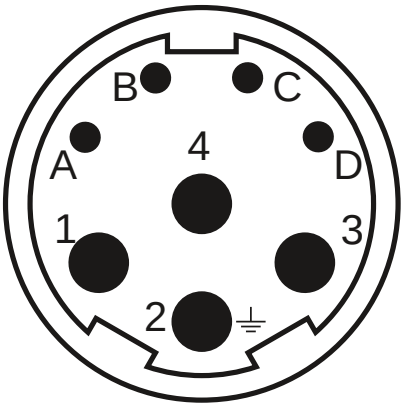
Gearbox mechanical data		
Max. radial force	2800	N
Max. axial force	4100	N
Output shaft design	Flange	
Mass	1.35	kg
Input inertia	0.061	kgcm²
Protection	IP64	

Actuator data		
Rated speed	27	rpm
Rated torque	46.73	Nm
Peak torque	125.00	Nm
EMF constant ±10%	366.0	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	3.55	Nm / A (rms)
Total mass	4.32	kg
Output inertia	3155.6	kgcm²

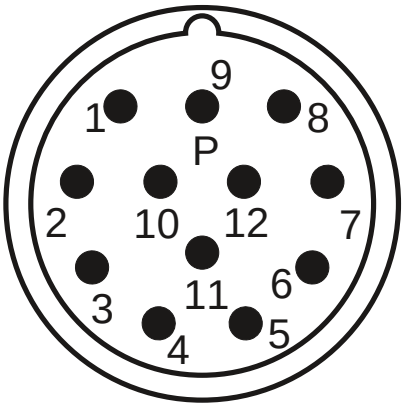
Torque / speed curve



BGC110N00001216000
M23, 8 poles, rotary

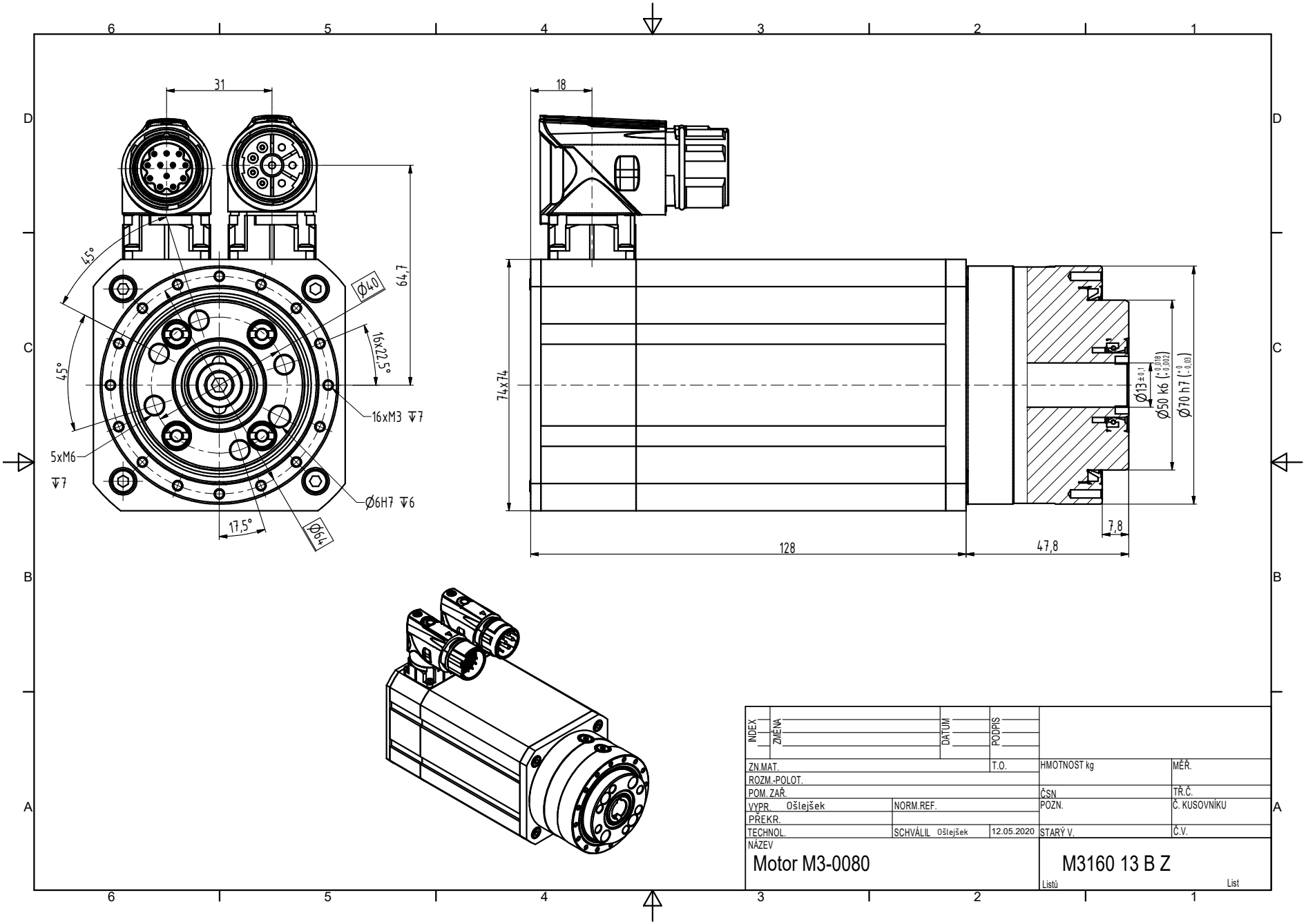


AGC052N00001215000
M23, 12 poles, rotary



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


31
18
45°
45°
64,7
Ø4,0
16x22,5°
16xM3 ↧7
5xM6
↧7
Ø6H7 ↧6
17,5°
Ø6H7
74x74
Ø13 ±0,1
Ø50 k6 (+0,018 +0,002)
Ø70 h7 (0 -0,03)
7,8
128
47,8
INDEX
ZMĚNA
DATUM
PODPIS
ZN.MAT.
T.O.
HMOTNOST kg
MĚŘ.
ROZM.-POLOT.
POM. ZAŘ.
ČSN
TŘ.Č.
VYPR. Ošlejšek
NORM.REF.
POZN.
Č. KUSOVNÍKU
PŘEKR.
TECHNOL.
SCHVÁLIL Ošlejšek
12.05.2020
STARÝ V.
Č.V.
NÁZEV
Motor M3-0080
M3160 13 B Z
Listů
List