Engineering motordata (WIN 1336)		
DC bus voltage	320	V DC
Nominal AC voltage	220	V AC (rms)
Rated voltage	170	V AC (rms)
Rated power	358	W
Rated speed	4500	rpm
Rated torque	0.76	Nm
Rated current	1.66	A (rms)
Peak torque	2.4	Nm
Peak current	6.2	A (rms)
Stall torque	0.95	Nm
Stall current	1.69	A (rms)
No load speed	6410	rpm
EMF constant ±10%	34	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.562	Nm / A (rms)
Torque constant ±10% @ rated load	0.458	Nm / A (rms)
Number of poles	10	
Electrical time constant	1.97	ms
Winding terminal resistance	8.391	Ω
Rotary field terminal inductance	16.5	mH

Customs info	
HS Code	85015100

Mechanical motor data (setting 48)		
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	EKM36 (HDSL) multi-turn, 17 + 12 bits

Gearbox engineering data		
Gear ratio	57	
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

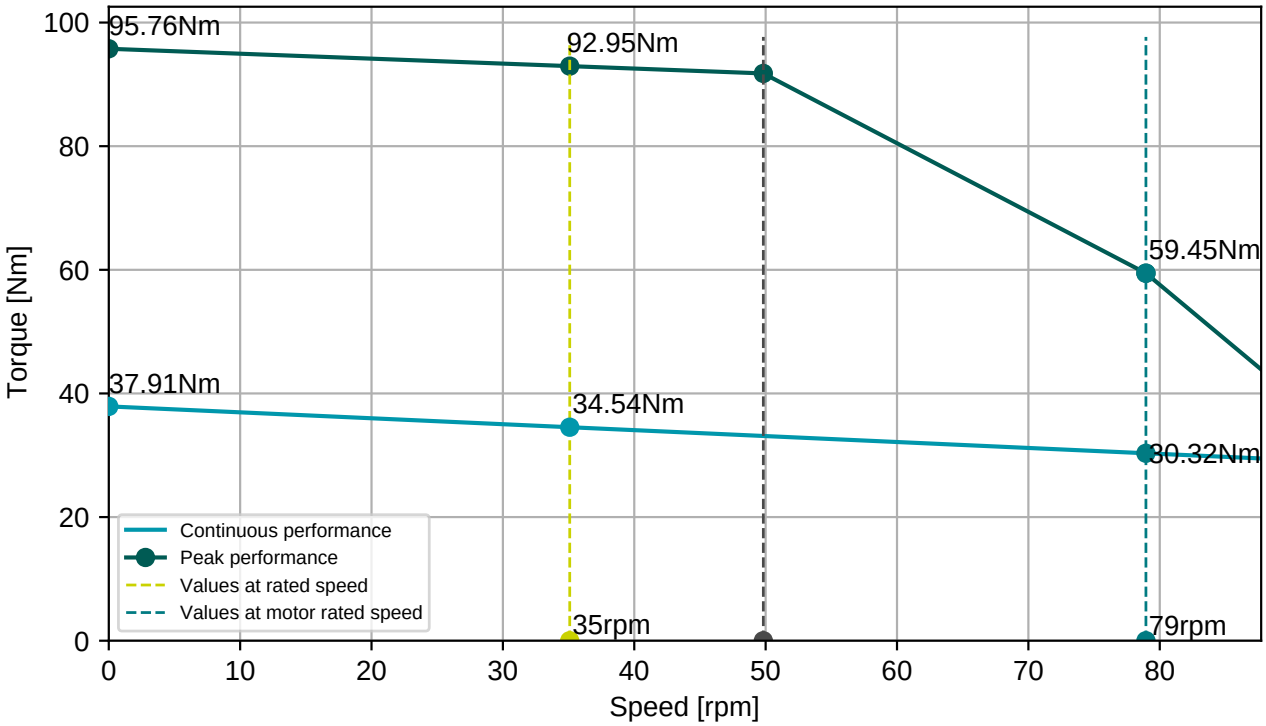
** at rated speed & torque*

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	

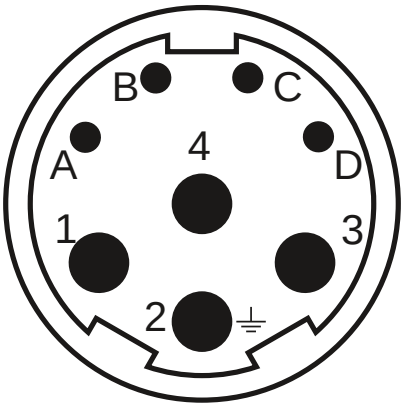
Actuator data		
Rated speed	35	rpm
Rated torque	34.54	Nm
Peak torque	95.76	Nm
EMF constant ±10%	1938.0	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	18.27	Nm / A (rms)
Total mass	3.85	kg
Output inertia	1822.7	kgcm²

Torque / speed curve

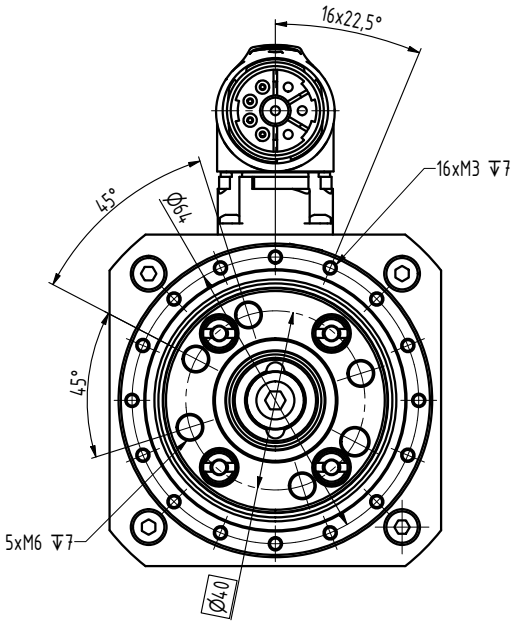


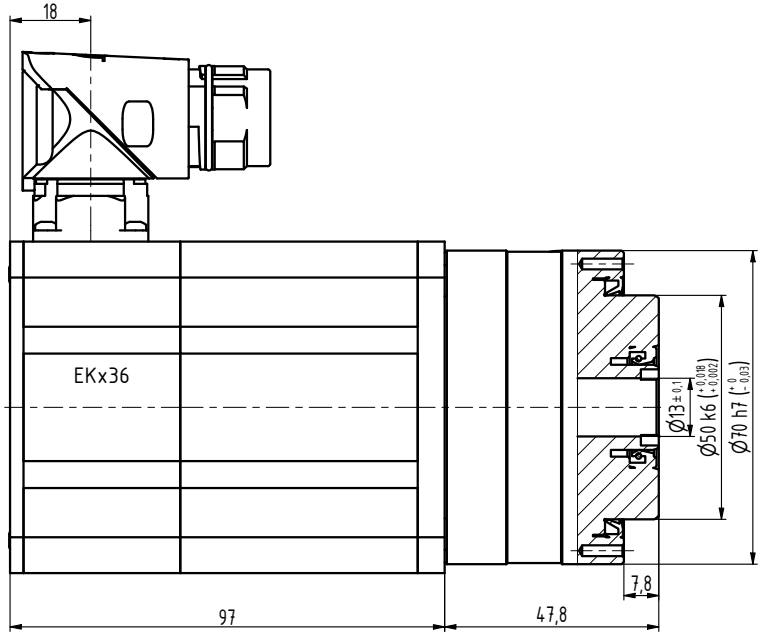
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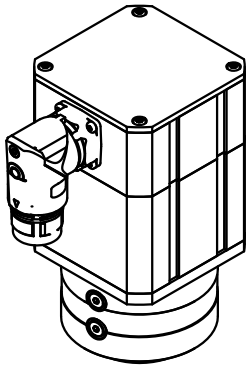
M23, 8 poles, rotary

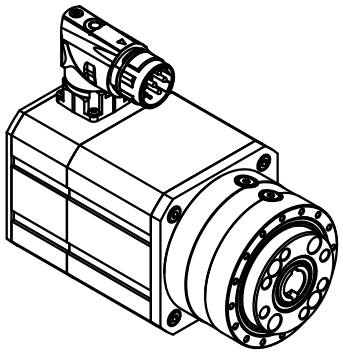


Connector 1 (283)	
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	GND/DSL-
D	+Us/DSL+









INDEX	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. Šimík 27.2.2019					
TECHNOL.		SCHVÁLIL Ošlejšek	28.04.2017	STARÝ V.	Č.V.

NÁZEV

Motor M3-0080

M3160 05 Z

Listů List