Engineering motordata (WIN 815)		
DC bus voltage	320	V DC
Nominal AC voltage	220	V AC (rms)
Rated voltage	166	V AC (rms)
Rated power	226	W
Rated speed	4500	rpm
Rated torque	0.48	Nm
Rated current	1.12	A (rms)
Peak torque	2.16	Nm
Peak current	5.4	A (rms)
Stall torque	0.54	Nm
Stall current	1.17	A (rms)
No load speed	7740	rpm
EMF constant ±10%	28	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.46	Nm / A (rms)
Torque constant ±10% @ rated load	0.43	Nm / A (rms)
Number of poles	6	
Electrical time constant	1.27	ms
Winding terminal resistance	25.37	Ω
Rotary field terminal inductance	32.3	mH

Customs info	
HS Code	85015100

Mechanical motor data (setting 48)		
Max mechanical speed	12000	rpm
Mech. time constant	1.43	ms
Thermal time constant	12	min
Rotor inertia	0.07	kgcm²
Protection	IP64	
Color	RAL 9005	
Cooling	Convection	
Motor-only mass	0.9	kg
Max. axial force 20kh	39	N
Max. radial force 20kh*	205	N
Max. axial force 100kh	23	N
Max. radial force 100kh*	120	N

** Defined for point of action at ½ output shaft length*

Sensors	
Temperature	PT1000 {PT1000}
Feedback	EES37 (HDSL) single-turn, 17 bits

Gearbox engineering data		
Gear ratio	256	
Efficiency*	81	%
Torsional stiffness	2.8	Nm/arcmin
Number of stages	3	
Rated output torque	37	Nm
Cycling output torque	44	Nm
Max output torque	65	Nm
Emergency output torque	88	Nm
Rated input speed	4500	rpm
Max input speed	13000	rpm
Operating temperature	<-25; 90>	°C
Max. backlash	< 15	arcmin
Service life	20000	h

** at rated speed & torque*

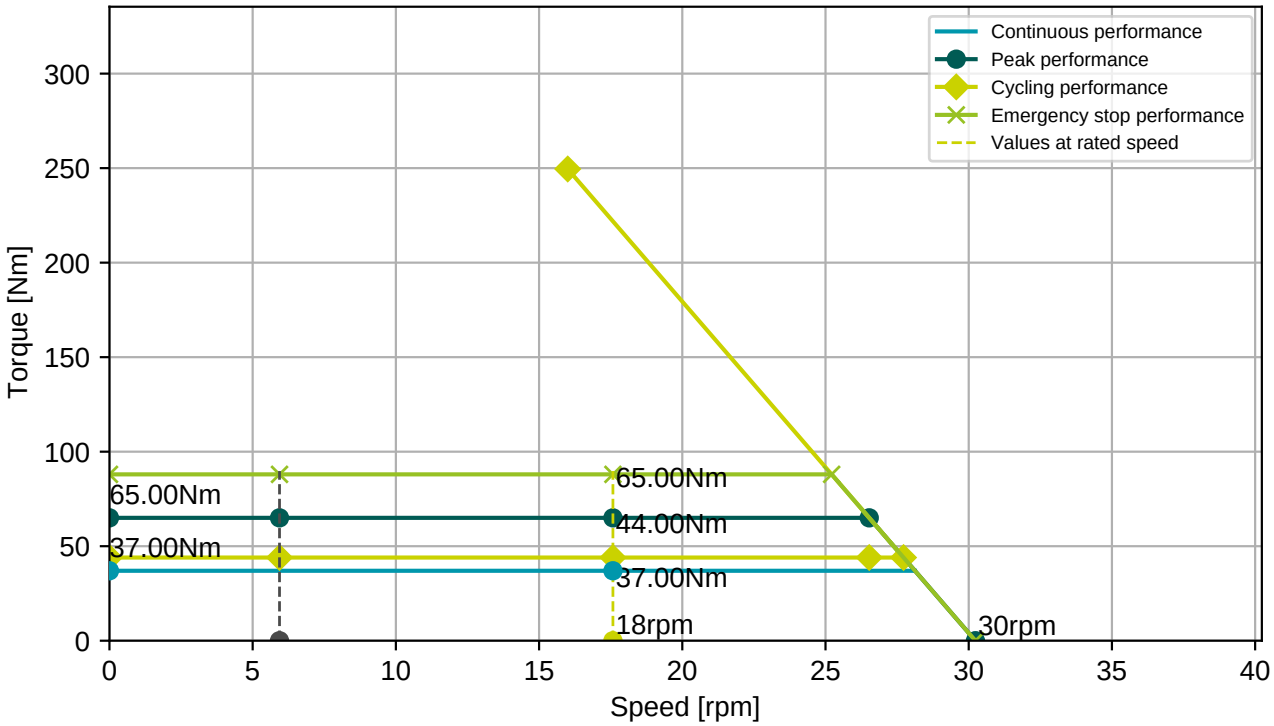
Lubrication	
Type	Standard
Lubricant	Grease (lifetime lubrication)

Gearbox mechanical data		
Radial force for 20'000h*	400	N
Radial force for 30'000h*	340	N
Max. radial force*	700	N
Axial force for 20'000h	500	N
Axial force for 30'000h	450	N
Max. axial force	800	N
Tilting moment for 20'000h	14	Nm
Tilting moment for 30'000h	12	Nm
Max. bending moment	12	Nm
Output shaft design	Shaft key	
Mass	1.28	kg
Input inertia	0.066	kgcm²
Protection	IP54	

** Defined for point of action at ½ output shaft length*

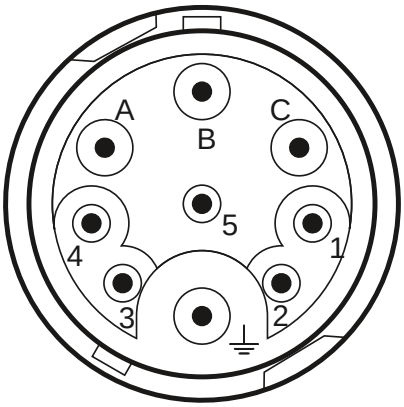
Actuator data		
Rated speed	18	rpm
Rated torque	37.00	Nm
Cycling torque	44.00	Nm
Peak torque	65.00	Nm
Emergency stop torque	88.00	Nm
EMF constant ±10%	7168.0	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	88.87	Nm / A (rms)
Total mass	2.18	kg
Output inertia	8912.9	kgcm²

Torque / speed curve

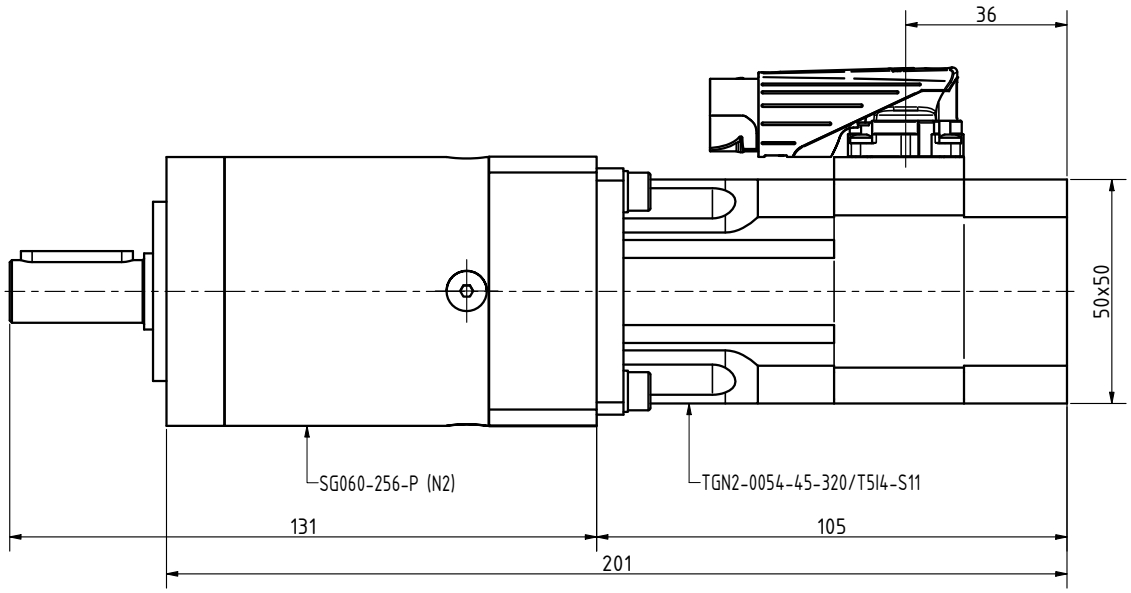


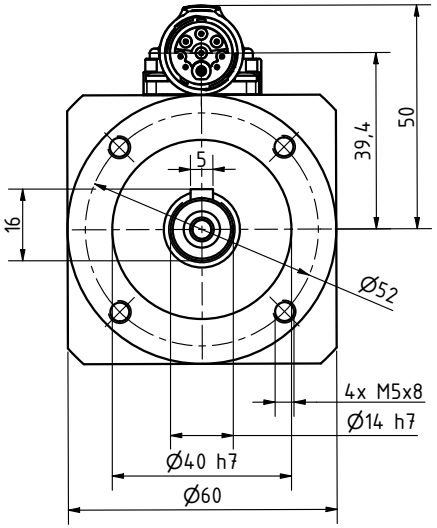
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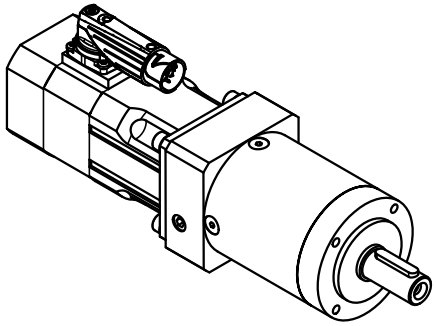
M15, 9 poles, rotary



Connector 1 (304)	
A	U
B	V
C	W
PE	PE
1	Brake+
2	Brake-
3	+Us/DSL+
4	GND/DSL-

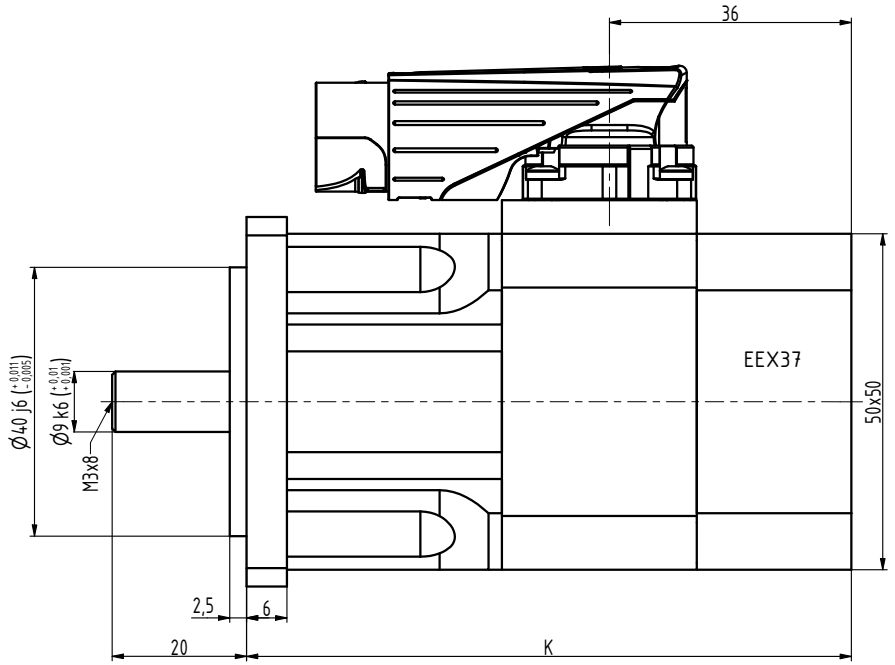


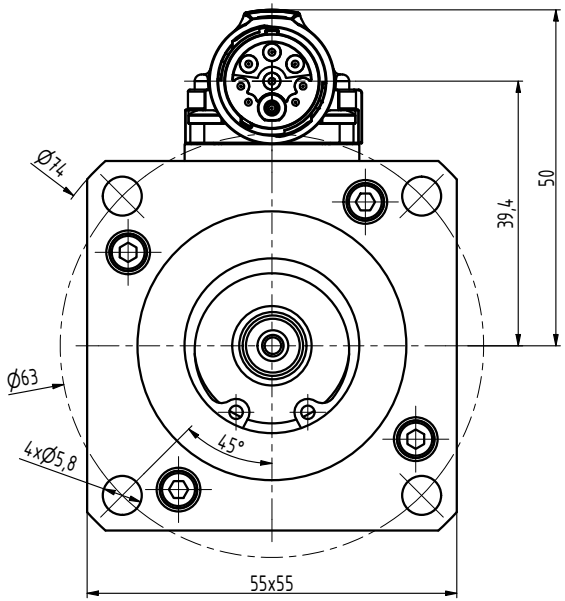




Netolerovane rozmery: ISO 2768 - m

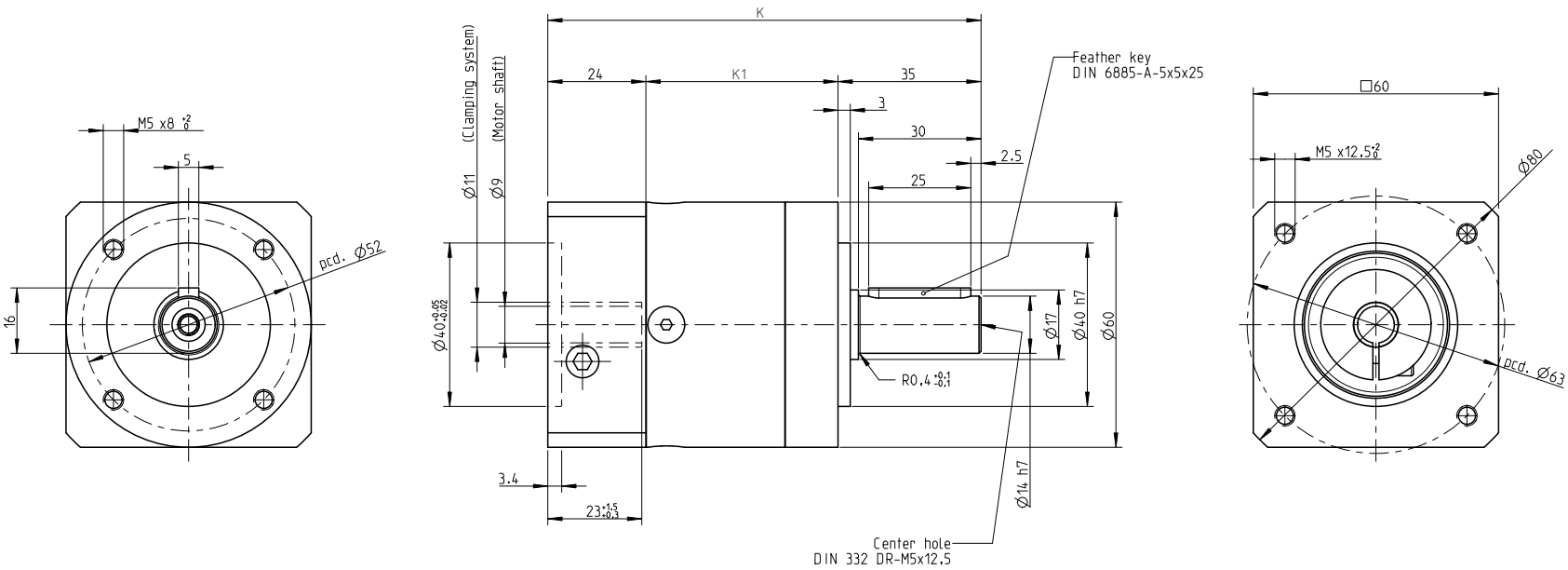
Navrhl:	Štěpán Bednář	Vytvořeno: 05.03.2026	Změněno:
Kontroloval/Schválil:		Název projektu:	
Material			
Polotovar		Číslo - Jméno: SG060-256-P (N2)	
ID projektu			
Pokud není specifikováno jinak kóty jsou milimetrech a stupních Úhly ±XXX°nebo ±XXXX, Délky ±XXX nebo ±XXXX		Format A3 / Počet kusů:	Revize:
Designer: Bednar Mail: bednar@tgdrives.cz Tel: +420 724844770	Olomoucka 1290/79 627 00 Brno Czech republic	AUTODESK	M: 1 : 1 / Hmotn: / List: 1/1





TYP	K
N2-0028	90
N2-0054	105
N2-0075	120
N2-0095	135
N2-0112	150

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	01.07.2021	STARÝ V.	Č.V.
NÁZEV	Motor N2			N2068 05 Z_I_S1	
				Listů	List



NO OF STAGES	K	K1
I. stage	106	47
II. stage	118,5	59,5
III. stage	131	72

INDEX	ZMĚNA	DATUM	PODPIS		
ZM.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
ROZM. ZAŘ.				ČSN	TŘ.Č.
VYPR.		NORM. REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.		SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.
NÁZEV					
Gearbox SG060				TGN2, TGH2, TGT2	
				Listů	List