

Engineering motordata (WIN 1609)

DC bus voltage	48 V DC
Nominal AC voltage	33 V AC (rms)
Rated voltage	24 V AC (rms)
Rated power	346 W
Rated speed	3000 rpm
Rated torque	1.10 Nm
Rated current	11.14 A (rms)
Peak torque	4.94 Nm
Peak current	53.7 A (rms)
Stall torque	1.3 Nm
Stall current	11.4 A (rms)
No load speed	4740 rpm
EMF constant ±10%	6.91 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.114 Nm / A (rms)
Torque constant ±10% @ rated load	0.099 Nm / A (rms)
Number of poles	10
Electrical time constant	1.20 ms
Winding terminal resistance	0.275 Ω
Rotary field terminal inductance	0.33 mH

Customs info

HS Code	85015100
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Mechanical motor data (setting 48)

Max mechanical speed	12000 rpm
Mech. time constant	1.82 ms
Thermal time constant	24 min
Rotor inertia	0.5 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection

Sensors

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

Brake

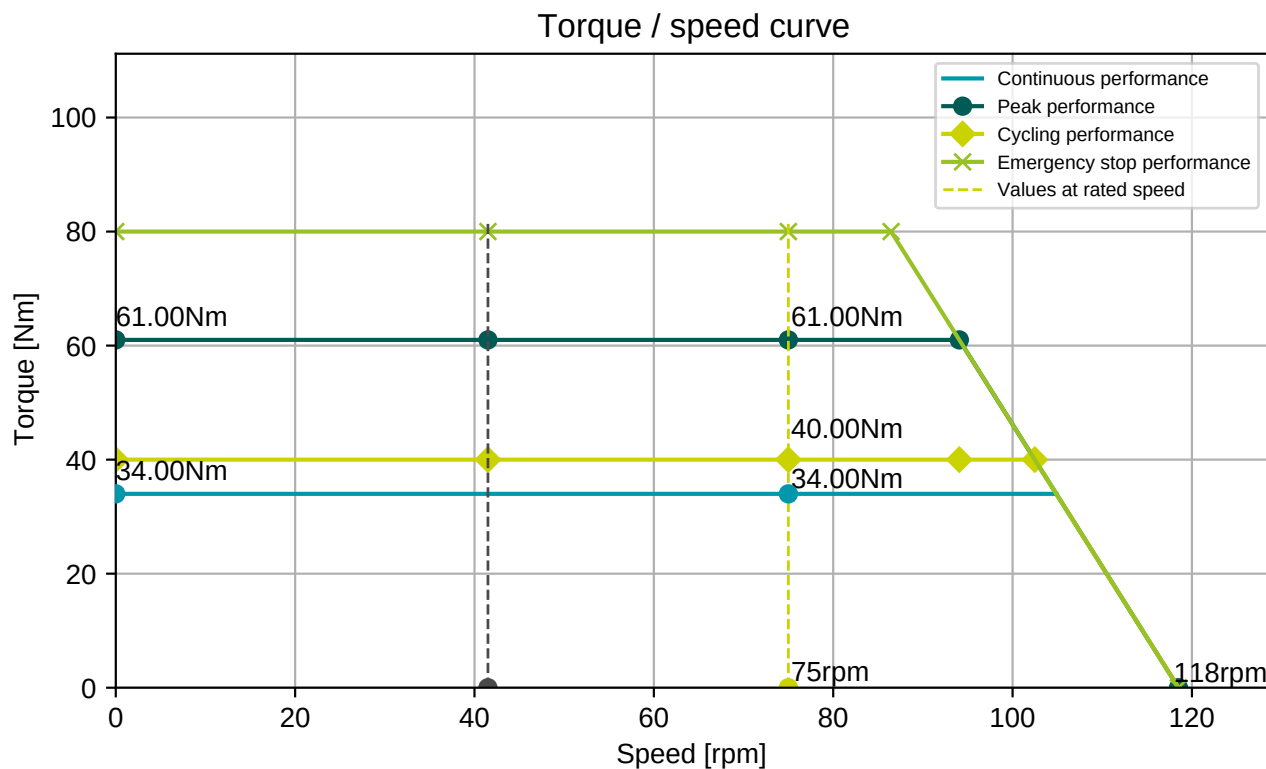
Braking torque	4.50 Nm
Voltage	24 V DC
Power @20°C	12.0 W
Current @20°C	0.50 A
Inertia	0.20 kgcm ²
Mass	0.47 kg

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	40	Radial force for 20'000h	400 N*
Efficiency	89 %*	Radial force for 30'000h	340 N*
Torsional stiffness	2.5 Nm/arcmin	Max. radial force	700 N*
Number of stages	2	Axial force for 20'000h	500 N
Rated output torque	34 Nm	Axial force for 30'000h	450 N
Cycling output torque	40 Nm	Max. axial force	800 N
Max output torque	61 Nm	Tilting moment for 20'000h	14 Nm
Emergency output torque	80 Nm	Tilting moment for 30'000h	12 Nm
Rated input speed	4500 rpm	Max. bending moment	12 Nm
Max input speed	13000 rpm	Output shaft design	Shaft key
Operating temperature	<-25; 90> °C	Mass	1.8 kg
Max. backlash	< 18 arcmin	Input inertia	0.228 kgcm ²
Service life	20000 h	Protection	IP54

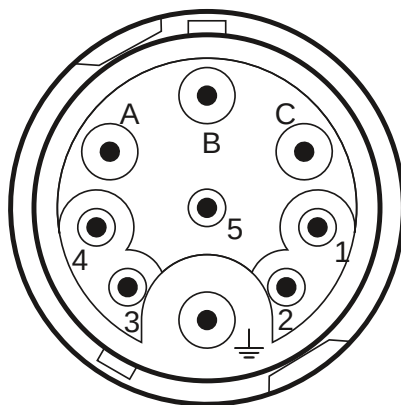
* at rated speed & torque

* Defined for point of action at ½ output shaft length

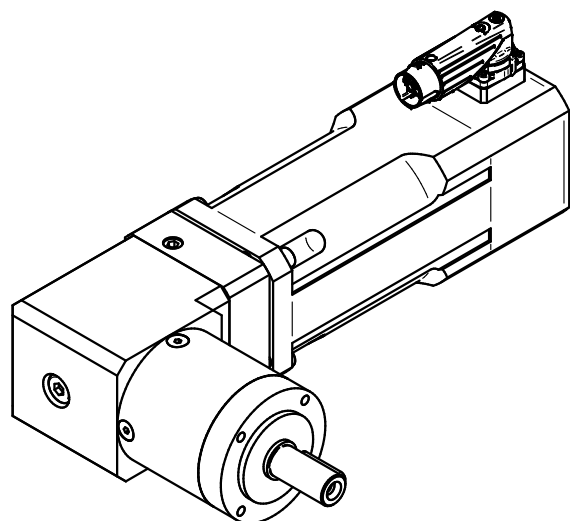
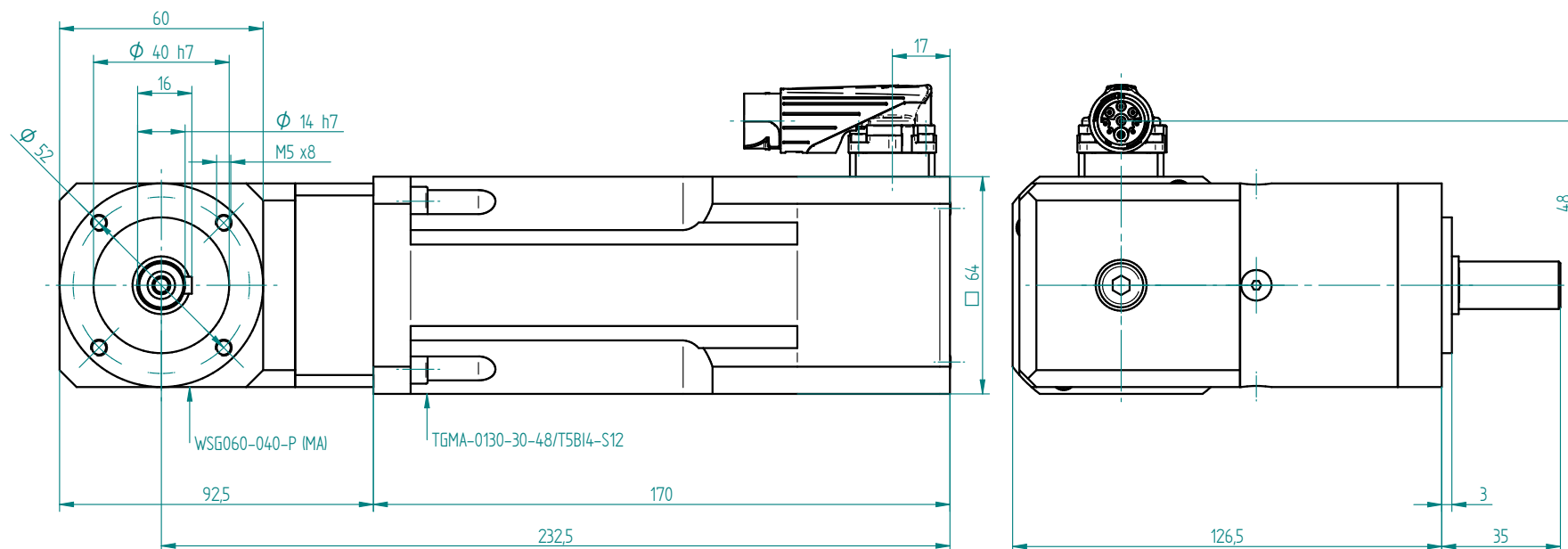
Lubrication		Actuator data	
Type	Standard	Rated speed	75 rpm
Lubricant	Grease (lifetime lubrication)	Rated torque	34.00 Nm
		Cycling torque	40.00 Nm
		Peak torque	61.00 Nm
		Emergency stop torque	80.00 Nm
		EMF constant ±10%	276.4 V AC (rms) / 1000rpm
		Torque constant ±10% @ rated load	3.52 Nm / A (rms)
		Output inertia	1164.8 kgcm ²


EGA201N00000800000

M15, 9 poles, rotary

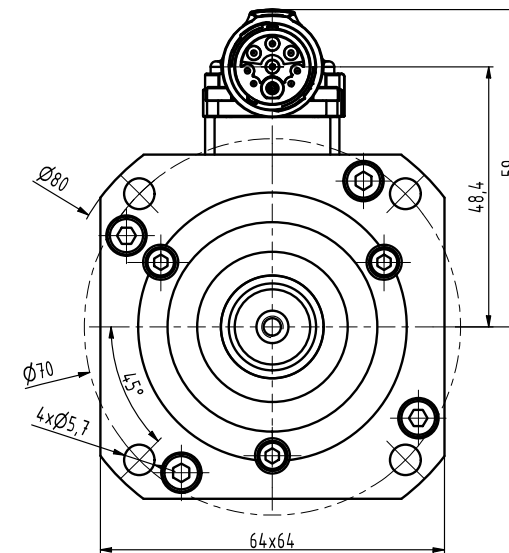
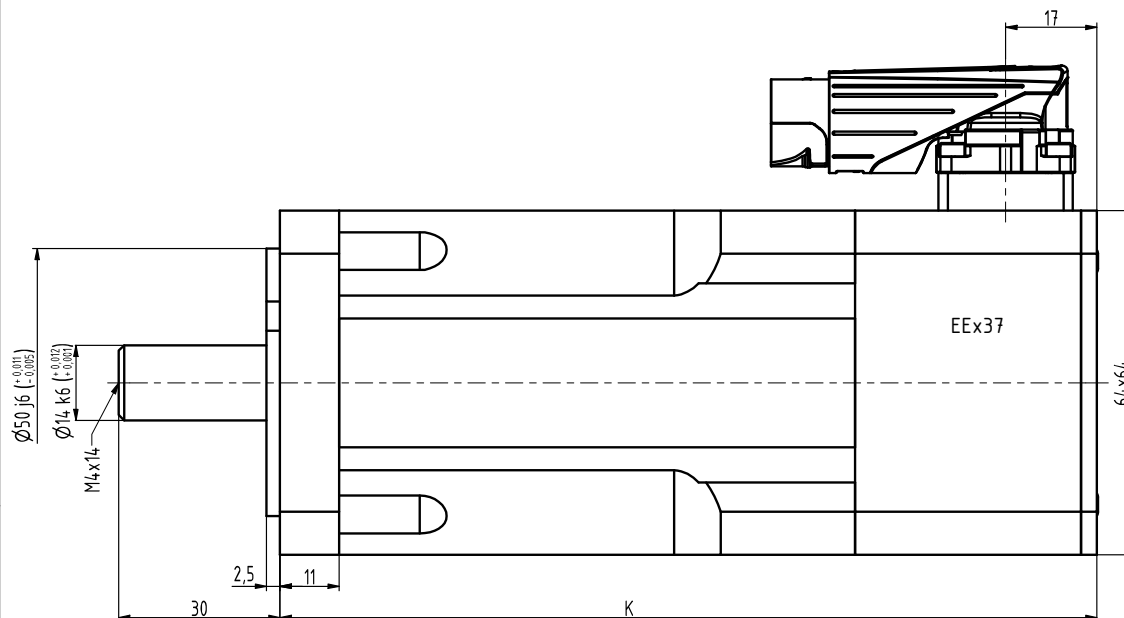

Connector 1 (304)

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



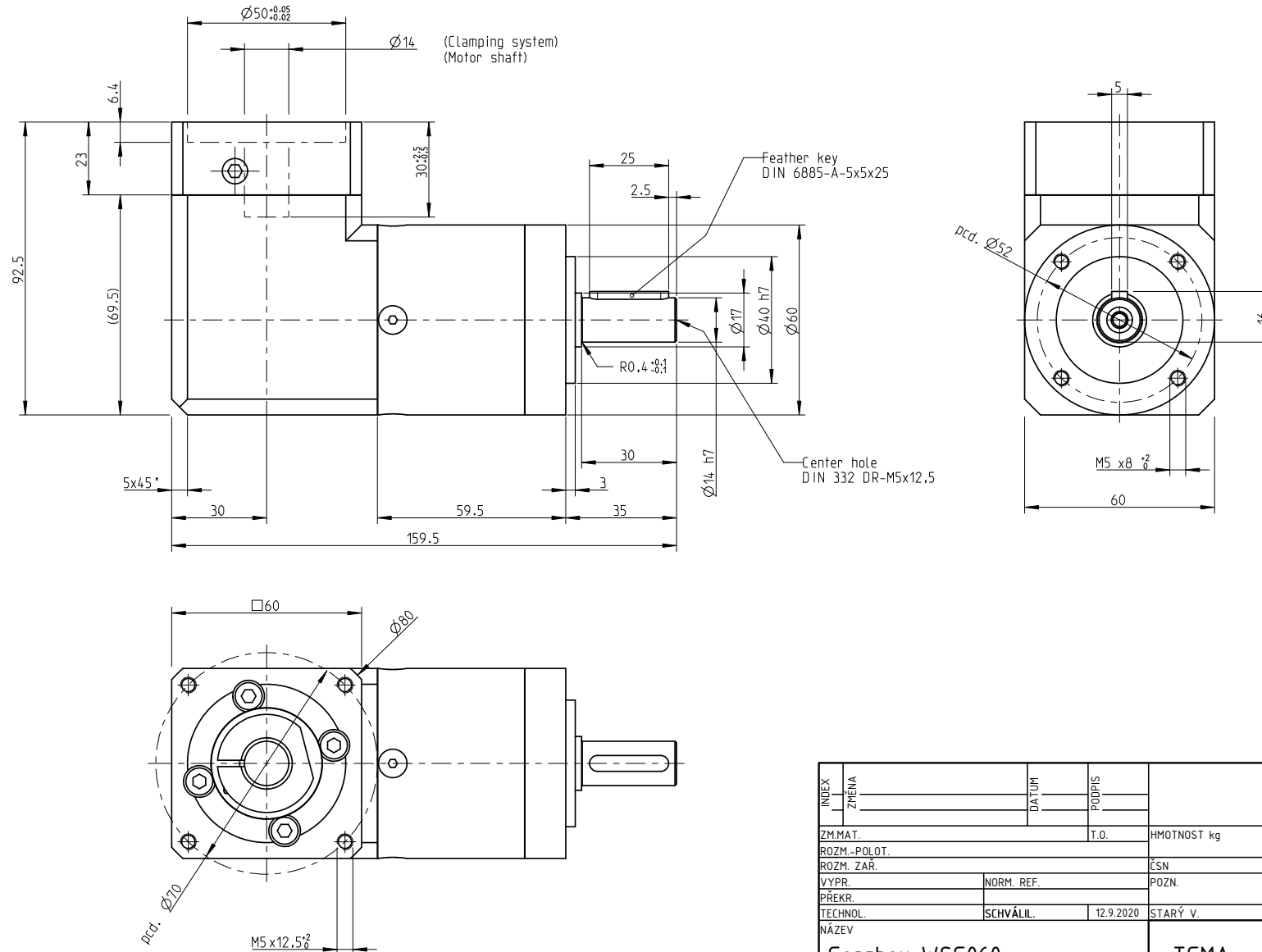
Untolerated dimensions: ISO 2768 - m

Drawn:	Stepan Bednar	Created:	24.06.2025	Modified:	24.06.2025
Checked / approved by:	- - -	PROJECT NAME:	Gearbox WSG060-040-P (IMA)		
Material:	-	NUMBER - TITLE: WSG060-040-P (IMA)			
Semiprod.	-				
Project ID's	-				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM ANGLES ±XXX° or ±XXXX°, 2 PL ±XXX, 3 PL ±XXXX		SIZE A3	QUANTITY: -	REVISION: - - -	
Designer: Bednar	 TG drives	C:\Users\bednar\Documents\WSG060-040-P\WSG060-0			



TYP	K
MA-0075	152
MA-0130	170
MA-0175	188
MA-0220	206
MA-0300	242

INDEX	ZNAČKA	DATUM	PODPIS		
ZN.MAT.				HMOTNOST kg	MÉR.
ROZM.-POLOT.				ČSN	TRČ.
POM. ZAR.				POZN.	Č. KUSOVNIKU
VÝPR. Ošlejšek	NORM. REF.			Č.V.	
PREKR.					
TECHNOL.	SCHVALIL. Ošlejšek	05.12.2024	STARÝ V.		
NAZEV	Motor MA			MA007 03 B Z_I_S1	
				Listů	List



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ZM.MAT.			T.O.	HMOTNOST kg	MĚŘ.
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VYPR.	NORM. REF.		POZN.	Č. KUSOVNÍKU	
PŘEKR.				STARÝ V.	Č.V.
TECHNOL.	SCHVÁLIL.	12.9.2020			
NÁZEV	Gearbox WSG060			TGMA	
				Listů	List