

Engineering motordata (WIN 1558)

DC bus voltage	24 V DC
Nominal AC voltage	17 V AC (rms)
Rated voltage	14 V AC (rms)
Rated power	1.0 kW
Rated speed	3000 rpm
Rated torque	3.20 Nm
Rated current	47.77 A (rms)
Peak torque	11.1 Nm
Peak current	230.8 A (rms)
Stall torque	4.05 Nm
Stall current	57.9 A (rms)
No load speed	4010 rpm
EMF constant ±10%	4.23 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.07 Nm / A (rms)
Torque constant ±10% @ rated load	0.07 Nm / A (rms)
Number of poles	10
Electrical time constant	3.85 ms
Winding terminal resistance	0.013 Ω
Rotary field terminal inductance	0.05 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 30)

Max mechanical speed	9000 rpm
Mech. time constant	1.10 ms
Thermal time constant	37 min
Rotor inertia	2.4 kgcm ²
Protection	IP67
Color	EPOX3(RAL9005)
Cooling	Convection

Sensors

Temperature	PT1000 {PT1000}
Feedback	ECN1325 (EnDat 2.2) single-turn, 25 bits

Brake

Braking torque	5.00 Nm
Voltage	24 V DC
Power @20°C	18.8 W
Current @20°C	0.78 A
Inertia	0.14 kgcm ²
Mass	0.90 kg

Gearbox engineering data

Gear ratio	7
Efficiency	95 %*
Torsional stiffness	4 Nm/arcmin
Number of stages	1
Rated output torque	39 Nm
Max output torque	59 Nm
Emergency output torque	80 Nm
Rated input speed	3450 rpm
Max input speed	10000 rpm
Operating temperature	<-40; 50> °C
Max. backlash	< 3 arcmin
Service life	20000 h

* at rated speed & torque

Lubrication

Type	Low temperature
Lubricant	Klübersynth GH 6-32

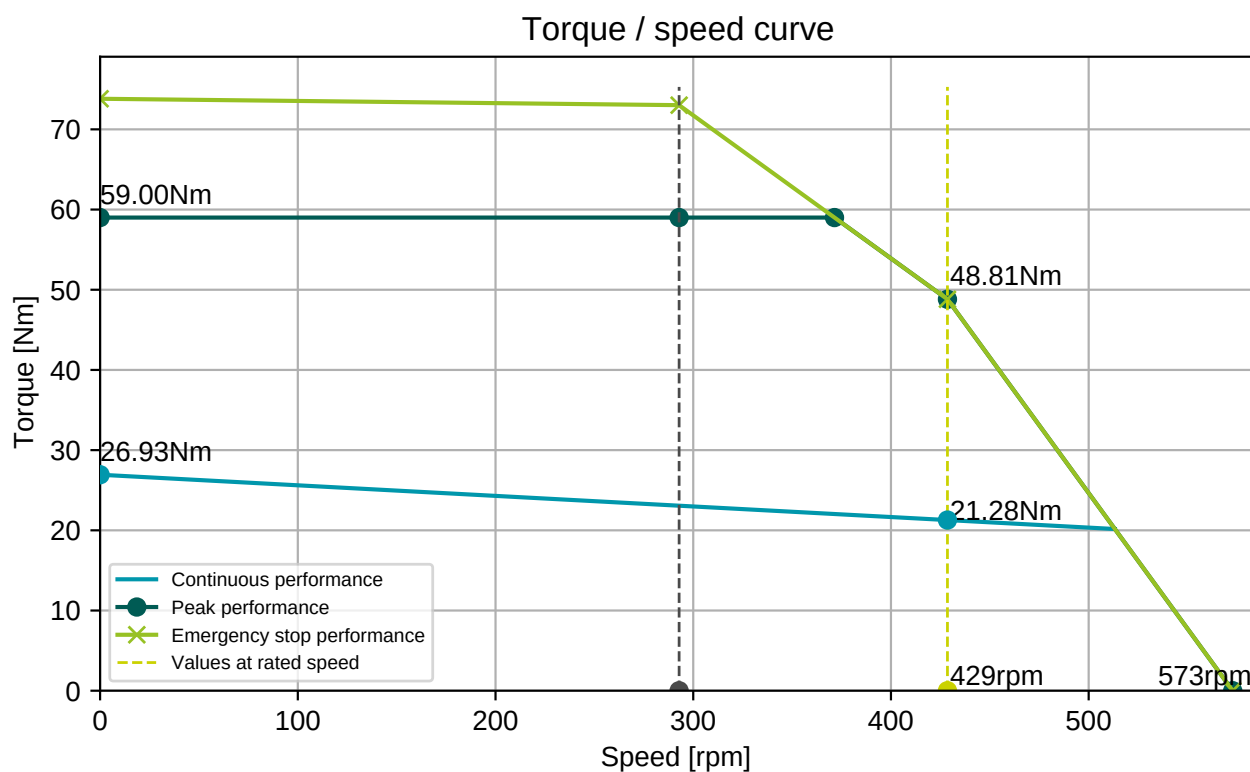
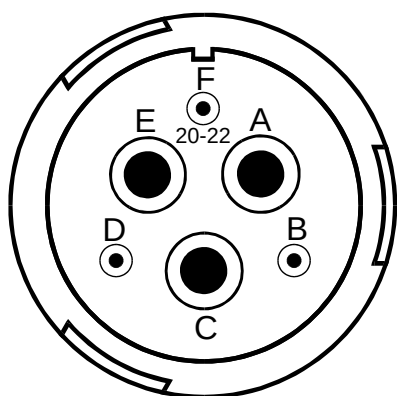
Gearbox mechanical data

Max. radial force	3200 N*
Max. axial force	3400 N
Output shaft design	Shaft key
Mass	2.6 kg
Input inertia	0.39 kgcm ²
Protection	IP65

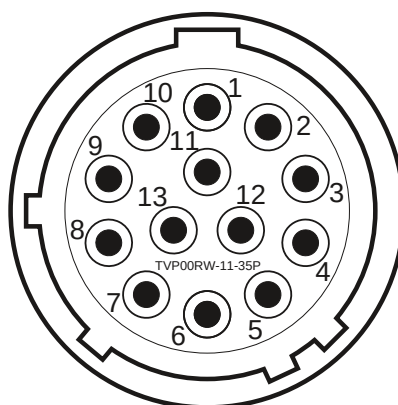
* Defined for point of action at ½ output shaft length

Actuator data

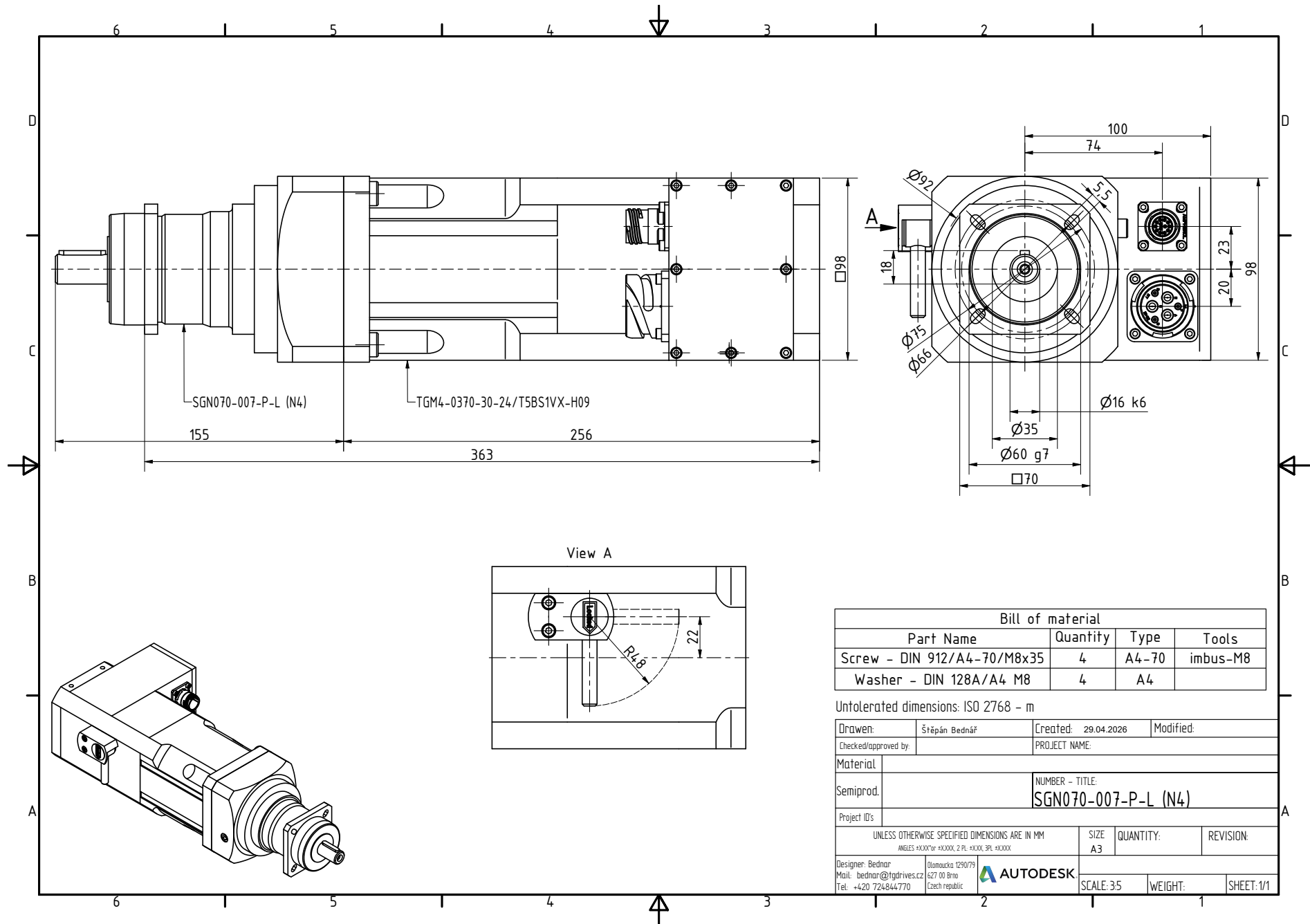
Rated speed	429 rpm
Rated torque	21.28 Nm
Peak torque	59.00 Nm
Emergency stop torque	77.70 Nm
EMF constant ±10%	29.6 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	0.45 Nm / A (rms)
Output inertia	136.7 kgcm ²


CA3102E20-22P-B-F80-A232

Connector 1 (468)

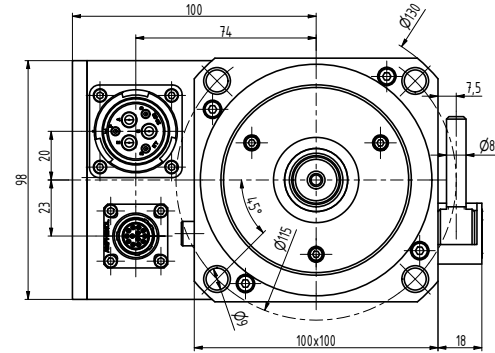
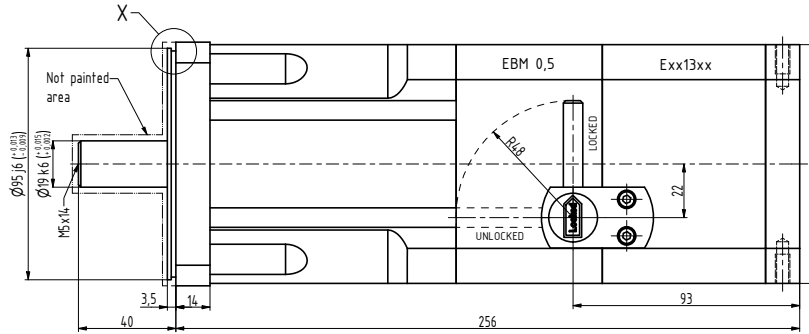
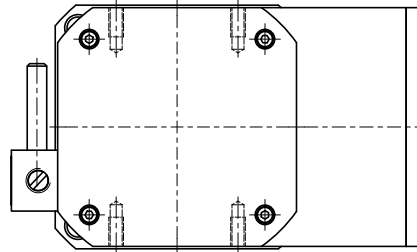
A	U
C	V
E	W
F	PE
B	Brake+
D	Brake-

D38999/20ZB35PN

Connector 2 (307)

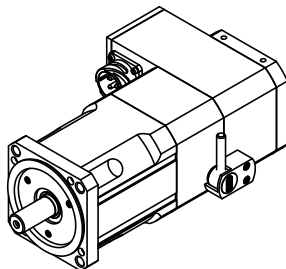
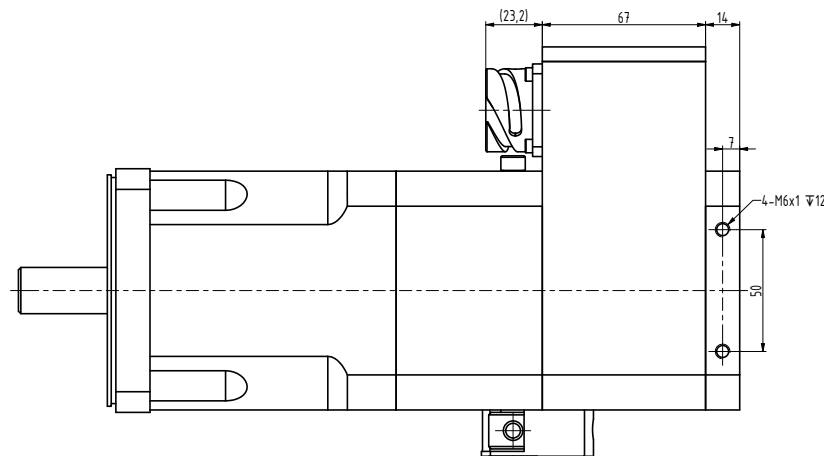
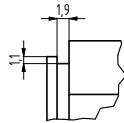
1	Vcc (+5V)
2	GND
3	DATA
4	DATA-
5	CLOCK
6	CLOCK-
7	Therm+
8	Therm-
9	Vcc sensor
10	GND sensor



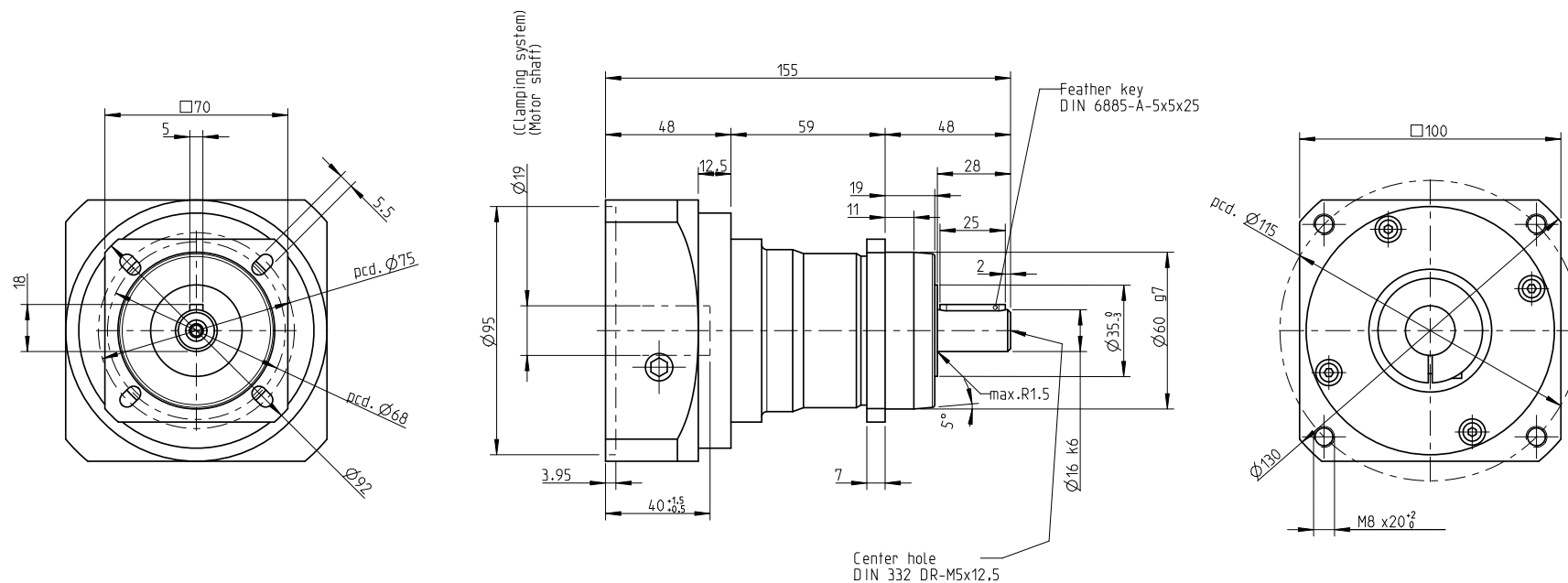
Stainless steel screws min. A2-70 on unpainted parts
All screws secured



X (2:1)



		MATERIAL		
		PROJECTION	NAME	DATE
			DRAW Ošlejsek	28.01.2026
		NON-TOLERANCED DIMENSIONS ISO 2768-m	APPROVED Ošlejsek	28.01.2026
		REVISION	Ošlejsek	30.04.2026
IND	CHANGE	DATE	NAME	
Motor M4-0370		M4009 10 B Z		SHEET 1/1



INDEX	ZMĚNA	DATUM	PODPIS	
ZM.MAT.		T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.				
ROZM. ZAR.			ČSN	TR.Č.
VYPR.	NORM. REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.				
TECHNOL.	SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.
NÁZEV	Gearbox SGN070		TGN4, TGT4, TGH4	
			LISTŮ	LIST