

Engineering motordata (WIN 1015)

DC bus voltage	24 V DC
Nominal AC voltage	17 V AC (rms)
Rated voltage	15 V AC (rms)
Rated power	503 W
Rated speed	3000 rpm
Rated torque	1.60 Nm
Rated current	24.21 A (rms)
Peak torque	5.2 Nm
Peak current	110.5 A (rms)
Stall torque	1.9 Nm
Stall current	27.5 A (rms)
No load speed	4060 rpm
EMF constant ±10%	4.2 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	2.38 ms
Winding terminal resistance	0.042 Ω
Rotary field terminal inductance	0.1 mH

Customs info

HS Code	85015100
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Mechanical motor data (setting 30)

Max mechanical speed	12000 rpm
Mech. time constant	1.05 ms
Thermal time constant	30 min
Rotor inertia	0.7 kgcm ²
Protection	IP67
Color	RAL 9005
Cooling	Convection
Motor-only mass	2.3 kg

Sensors

Temperature	PT1000 {PT1000}
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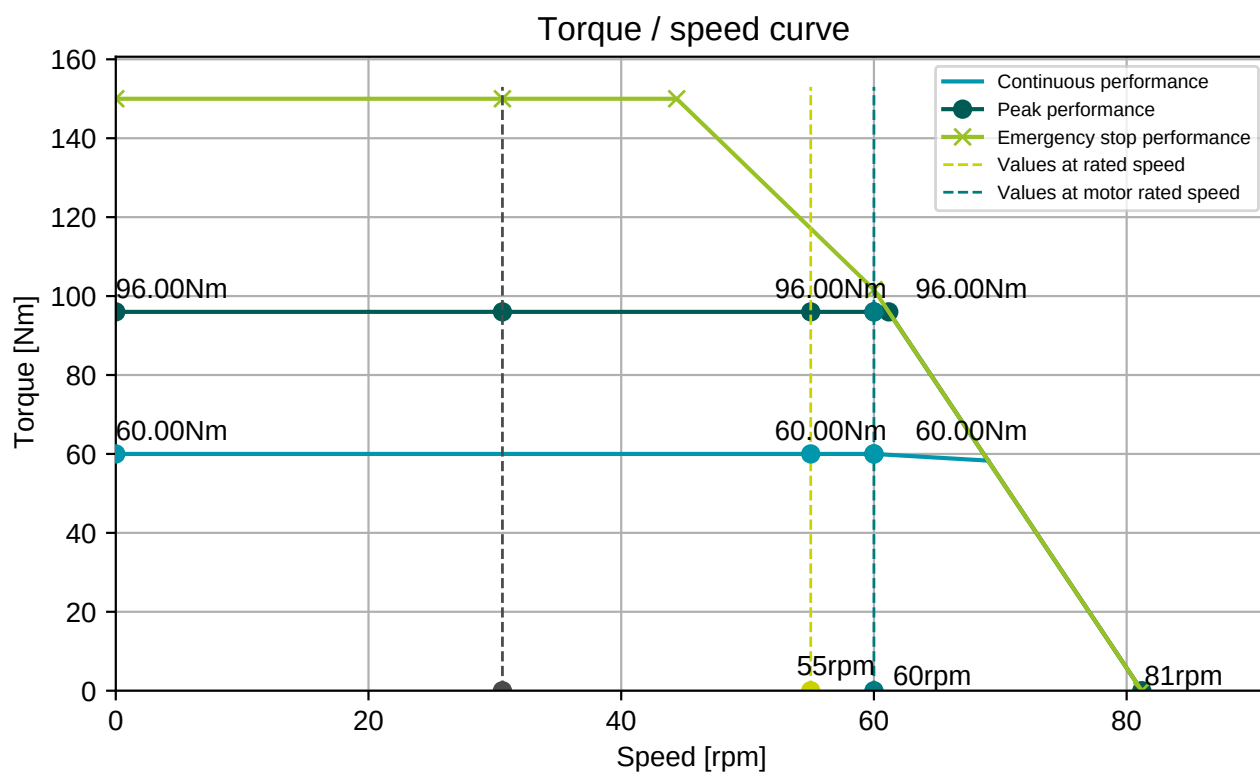
Brake

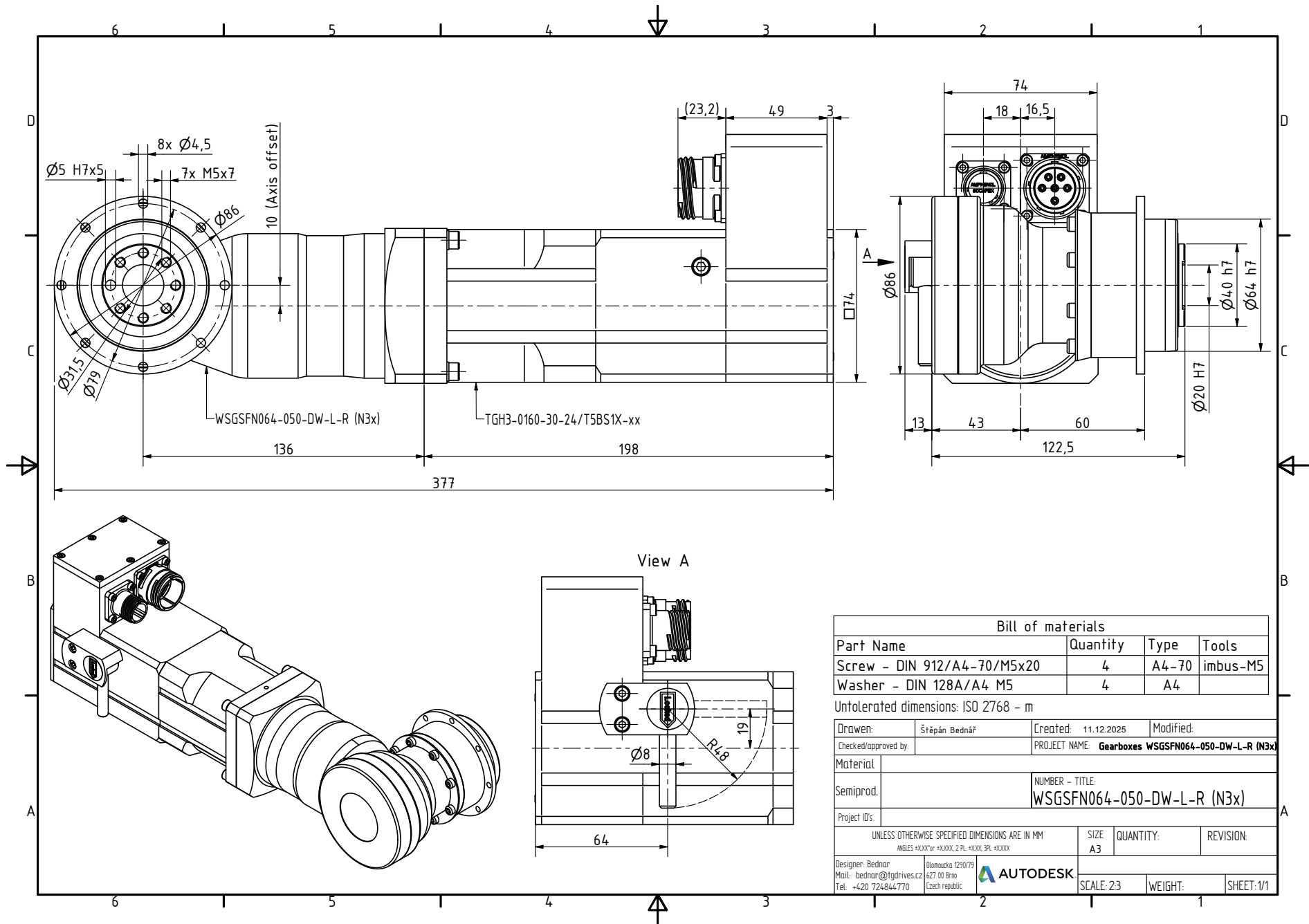
Braking torque	2.00 Nm
Voltage	24 V DC
Power @20°C	15.0 W
Current @20°C	0.63 A
Inertia	0.08 kgcm ²
Mass	0.25 kg

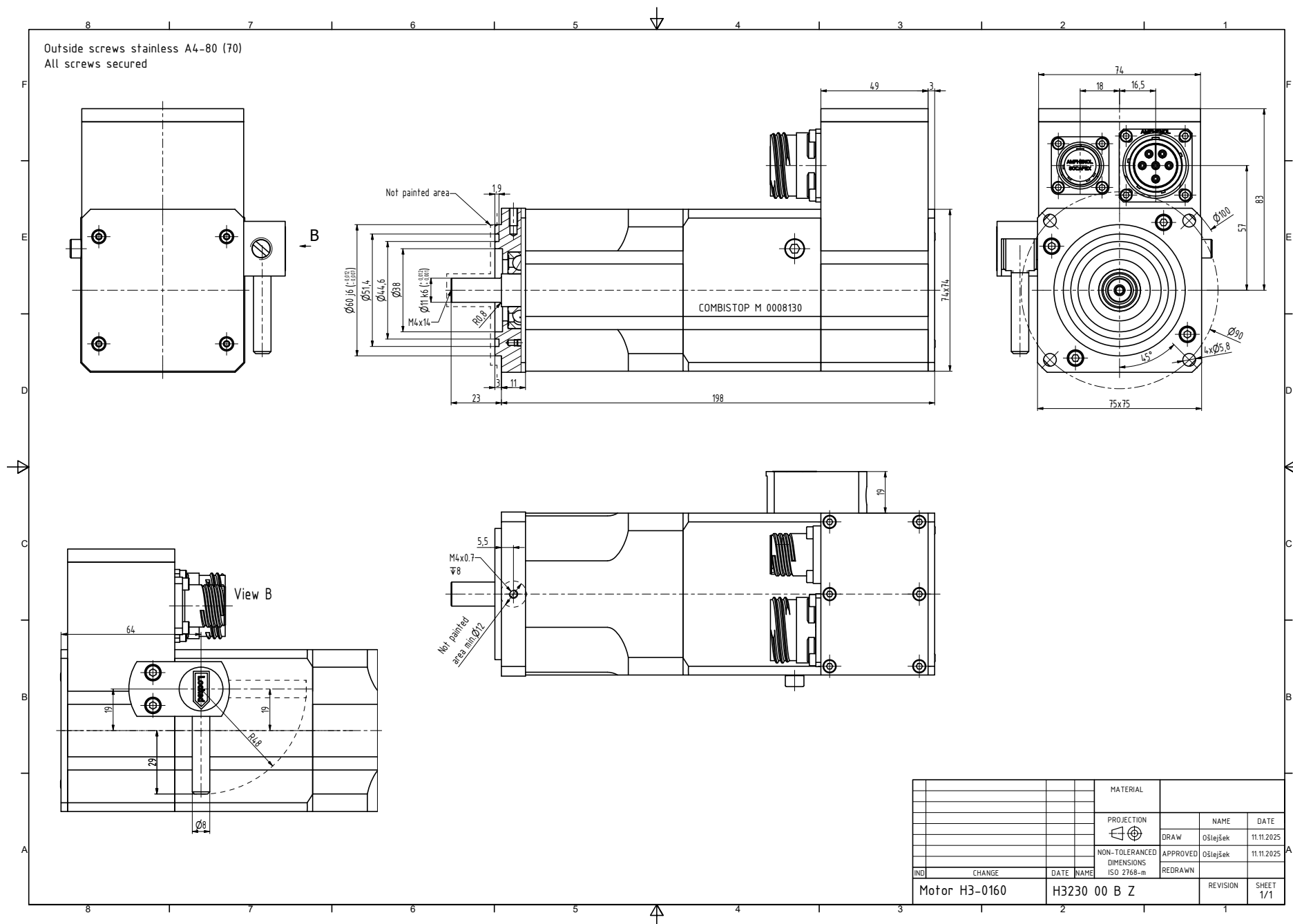
Note

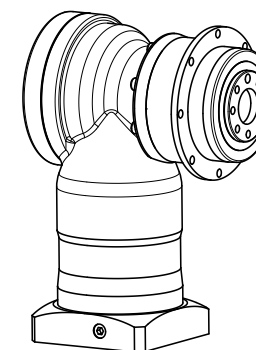
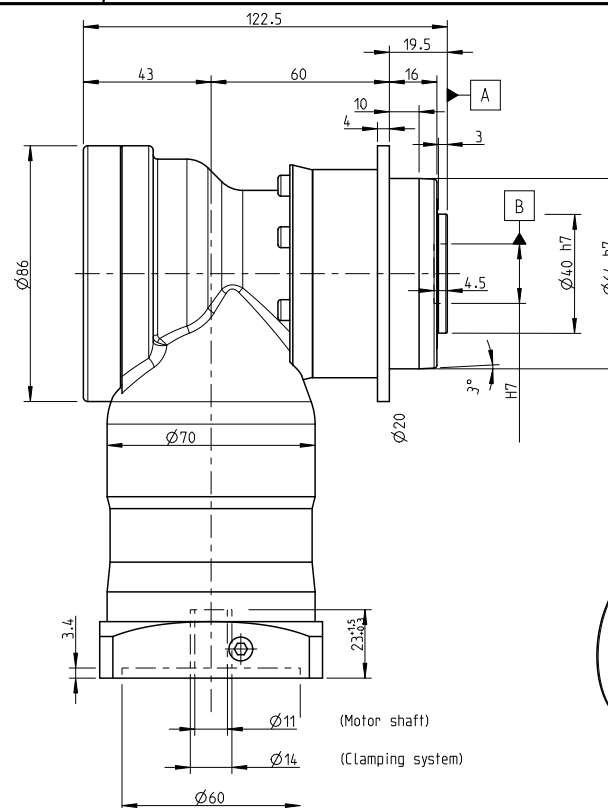
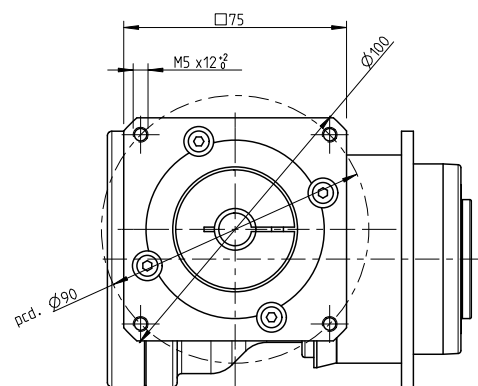
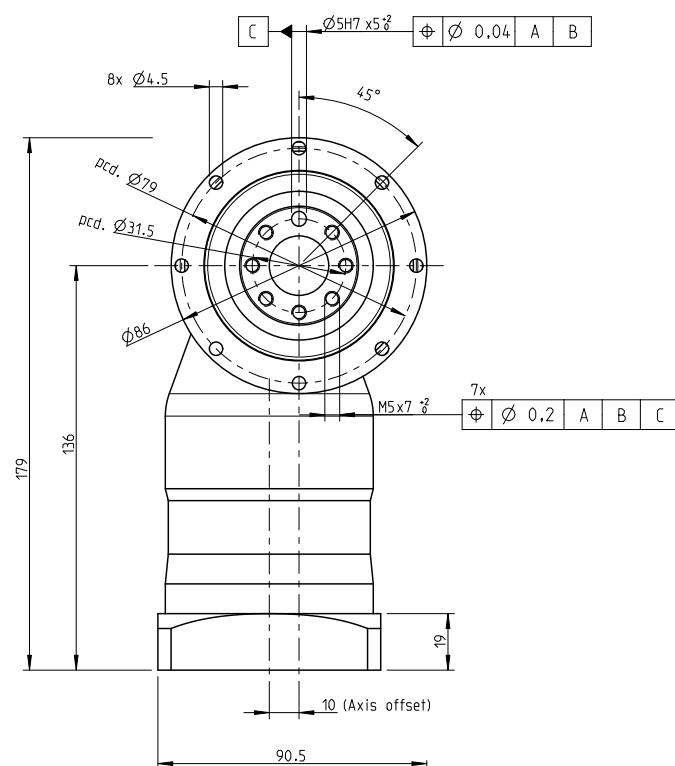
Preliminary

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	50	Radial force for 20'000h	2150 N
Efficiency	75 %*	Axial force for 20'000h	4300 N
Torsional stiffness	5.8 Nm/arcmin	Output shaft design	Flange with dowel hole
Number of stages	2	Mass	3.9 kg
Rated output torque	60 Nm	Input inertia	0.497 kgcm ²
Max output torque	96 Nm	Protection	IP65
Emergency output torque	150 Nm	Actuator data	
Rated input speed	2750 rpm	Rated speed	55 rpm
Max input speed	16000 rpm	Rated torque	60.00 Nm
Operating temperature	<-25; 90> °C	Peak torque	96.00 Nm
Max. backlash	< 3 arcmin	Emergency stop torque	150.00 Nm
Service life	20000 h	EMF constant ±10%	210.0 V AC (rms) / 1000rpm
* at rated speed & torque		Torque constant ±10% @ rated load	2.48 Nm / A (rms)
Lubrication		Total mass	6.45 kg
Type	Standard	Output inertia	2992.5 kgcm ²
Lubricant	Oil (lifetime lubrication)		









INDEX	ZMĚNA	DATUM	PODPIS		
ZM.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.				ČSN	TR.Č.
ROZM. ZAR.				POZN.	Č. KUSOVNÍKU
VYPR.		NORM. REF.		STARÝ V.	Č.V.
PŘEKR.					
TECHNOL.		SCHVÁLIL.	12.9.2020		
NÁZEV	Gearbox WSGSFN064			TGN3x, TGT3x, TGH3x	
				Listů	List