

Engineering motordata (WIN -100032)

DC bus voltage	48 V DC
Nominal AC voltage	33 V AC (rms)
Rated voltage	31 V AC (rms)
Rated power	838 W
Rated speed	4000 rpm
Rated torque	2.00 Nm
Rated current	17.41 A (rms)
Peak torque	8.1 Nm
Peak current	83.55 A (rms)
Stall torque	3.1 Nm
Stall current	26.1 A (rms)
No load speed	4590 rpm
EMF constant ±10%	7.2 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.12 Nm / A (rms)
Torque constant ±10% @ rated load	0.11 Nm / A (rms)
Number of poles	10
Electrical time constant	4.74 ms
Winding terminal resistance	0.057 Ω
Rotary field terminal inductance	0.27 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 48)

Max mechanical speed	9000 rpm
Mech. time constant	1.16 ms
Thermal time constant	35 min
Rotor inertia	1.67 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection

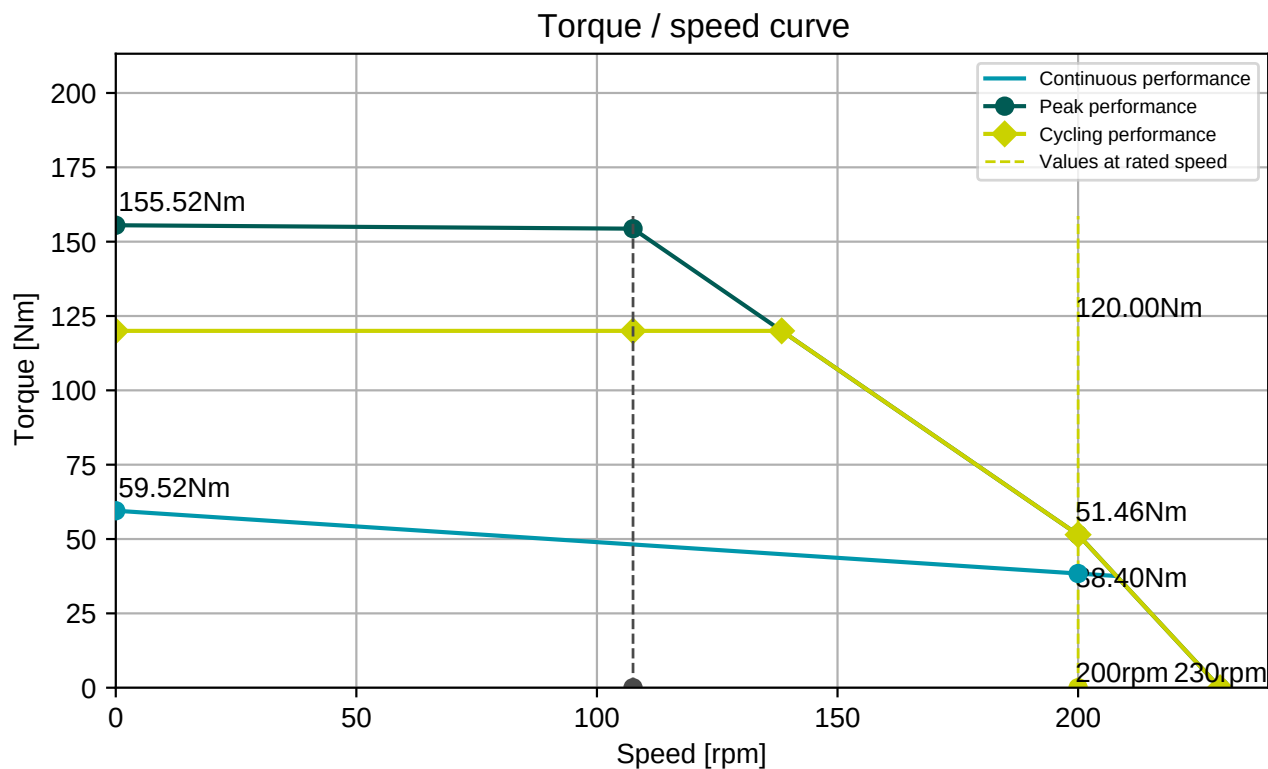
Sensors

Temperature	PT100 {PT100}
Feedback	EES37 (HDSL) single-turn, 15 bits, safety SIL2

Brake

Braking torque	9.00 Nm
Voltage	24 V DC
Power @20°C	18.0 W
Current @20°C	0.75 A
Inertia	0.60 kgcm ²
Mass	0.82 kg

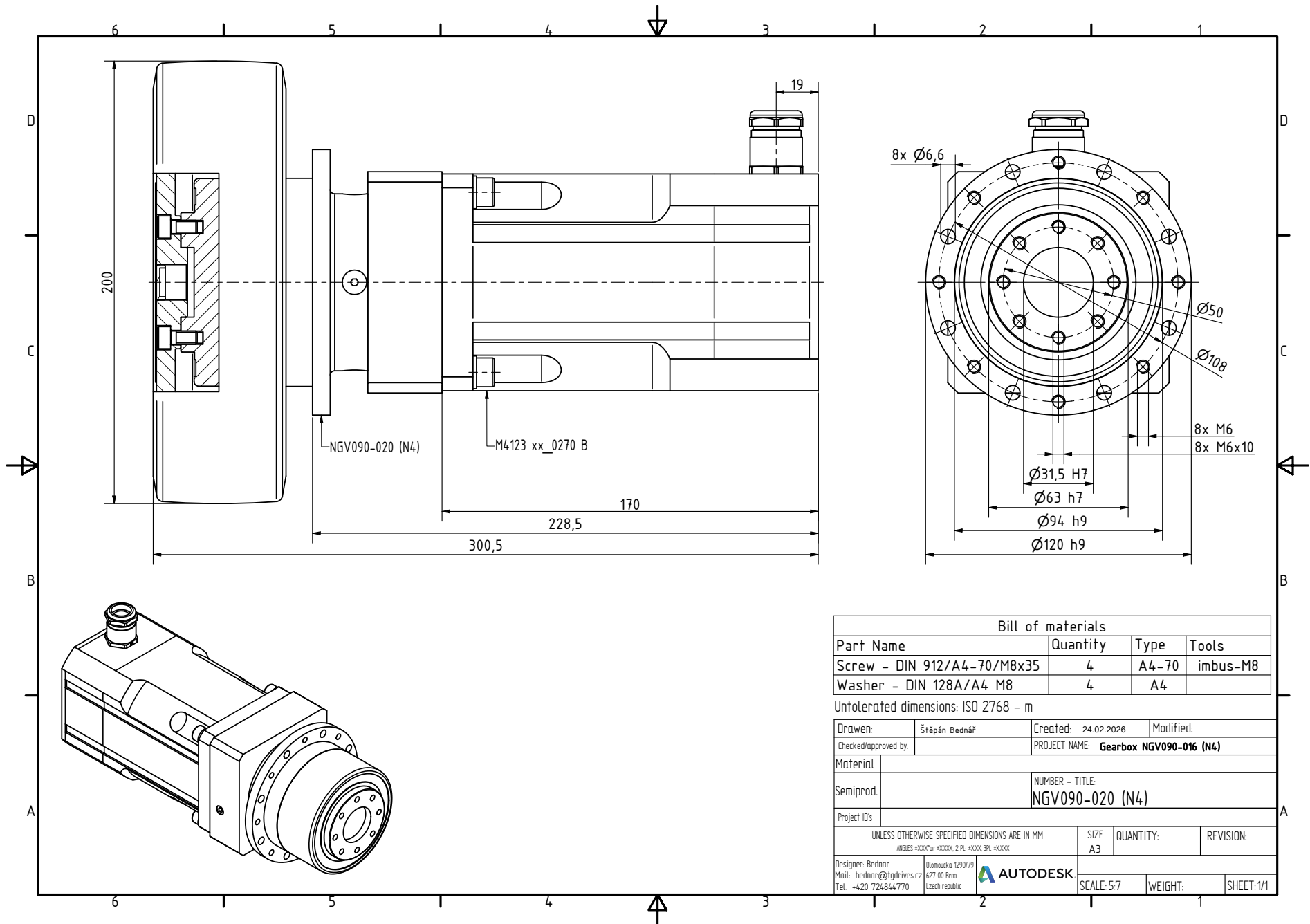
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	20	Radial force for 20'000h	4950 N
Efficiency	96 %*	Axial force for 20'000h	5450 N
Torsional stiffness	38.5 Nm/arcmin	Output shaft design	Flange
Number of stages	2	Mass	4.2 kg
Rated output torque	102 Nm	Input inertia	0.418 kgcm ²
Cycling output torque	120 Nm	Protection	IP65
Max output torque	192 Nm	Actuator data	
Emergency output torque	240 Nm	Rated speed	200 rpm
Rated input speed	4000 rpm	Rated torque	38.40 Nm
Max input speed	7000 rpm	Cycling torque	120.00 Nm
Operating temperature	<-25; 90> °C	Peak torque	155.52 Nm
Max. backlash	< 9 arcmin	Emergency stop torque	162.00 Nm
Service life	20000 h	EMF constant ±10%	144.0 V AC (rms) / 1000rpm
* at rated speed & torque		Torque constant ±10% @ rated load	2.21 Nm / A (rms)
Lubrication		Output inertia	835.2 kgcm ²
Type	Standard		
Lubricant	Klübersynth GE 14-112		

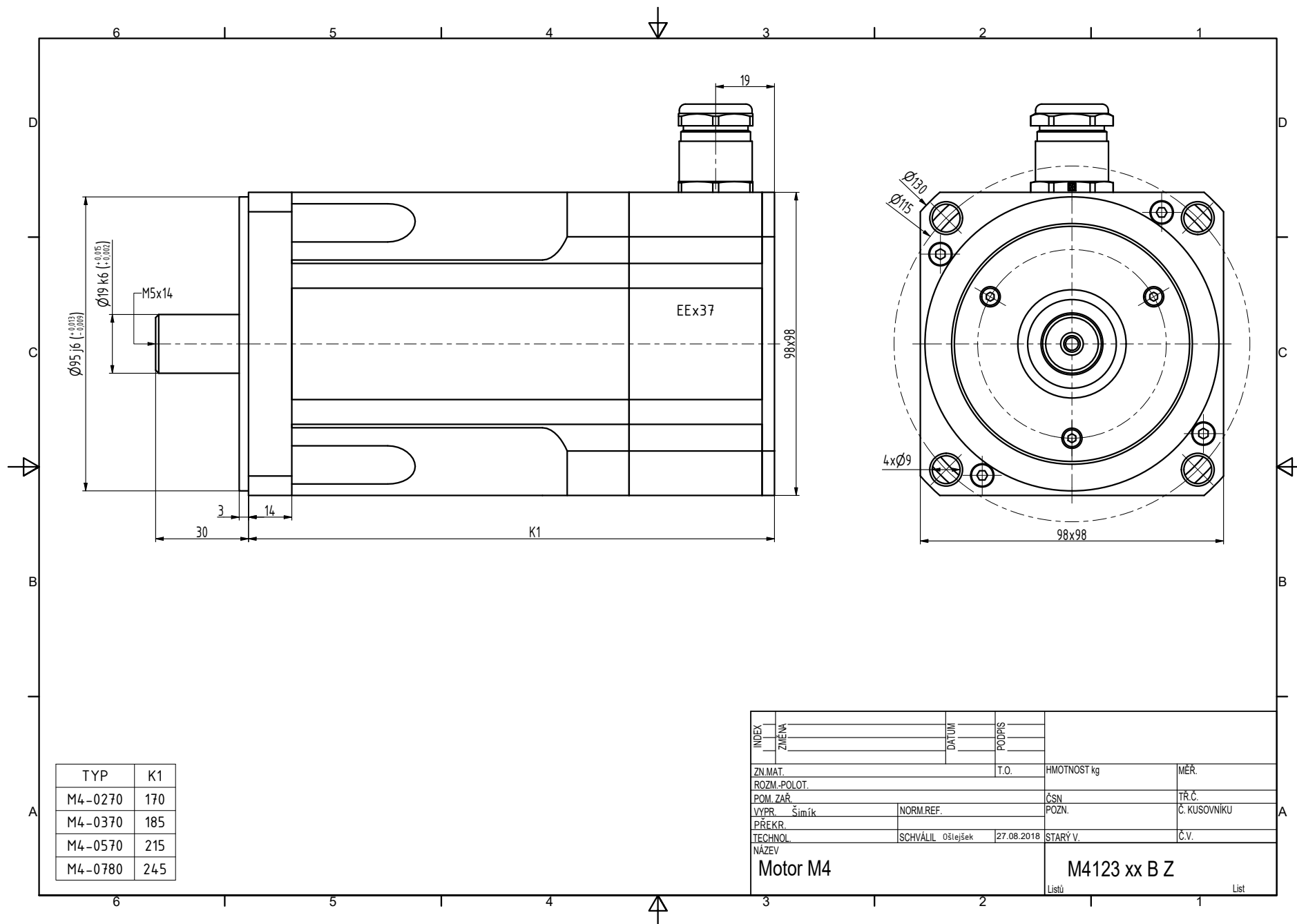


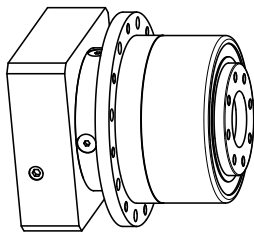
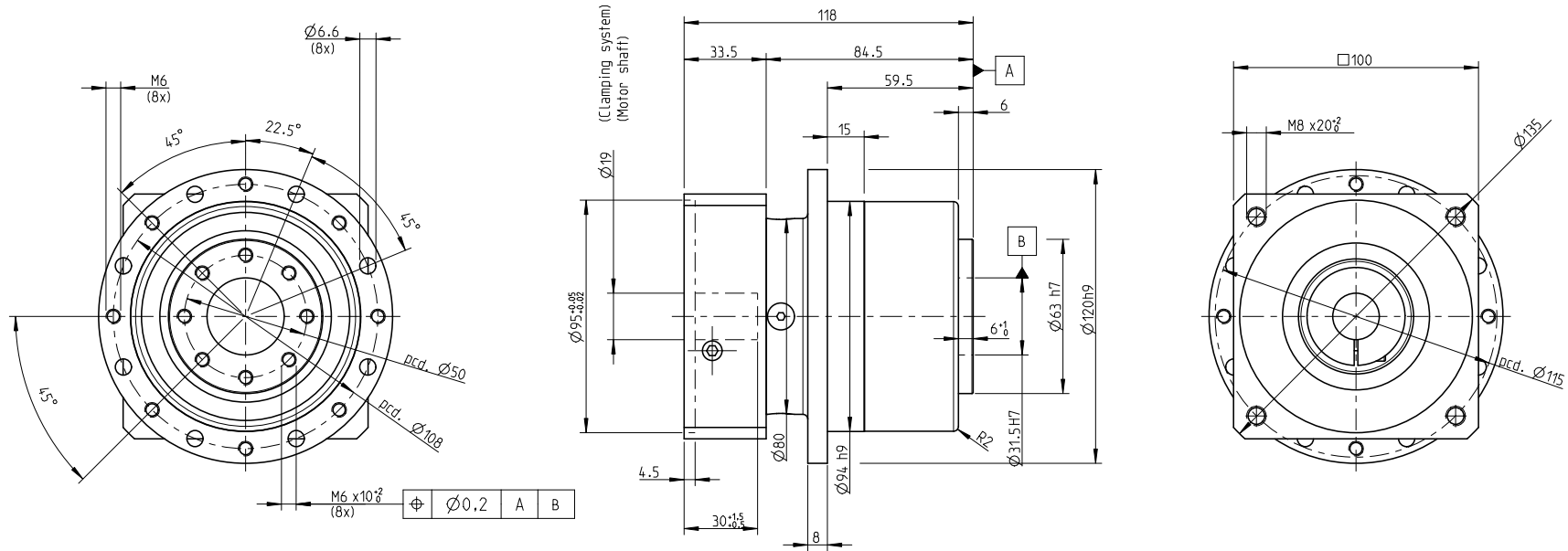
**Cable DSL4x2,5 (2x0,25)+(2x1),
D=13,5±0,4mm**

Connector 1 (306)	
1	U
2	V
3	W
PE	PE
5	Brake+
6	Brake-
brown	+Us/DSL+
white	GND/DSL-

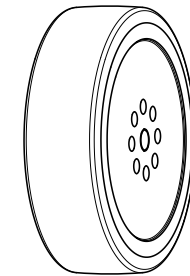
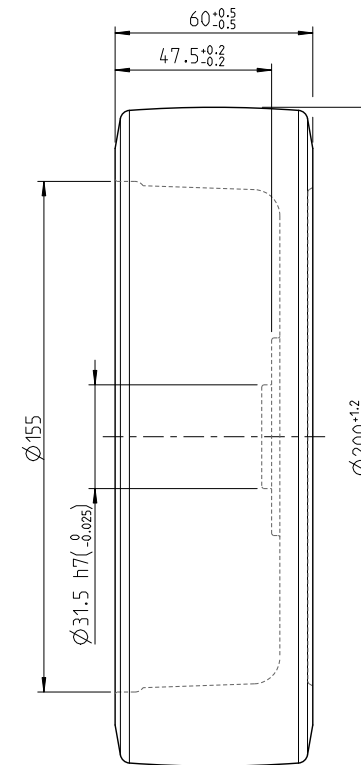
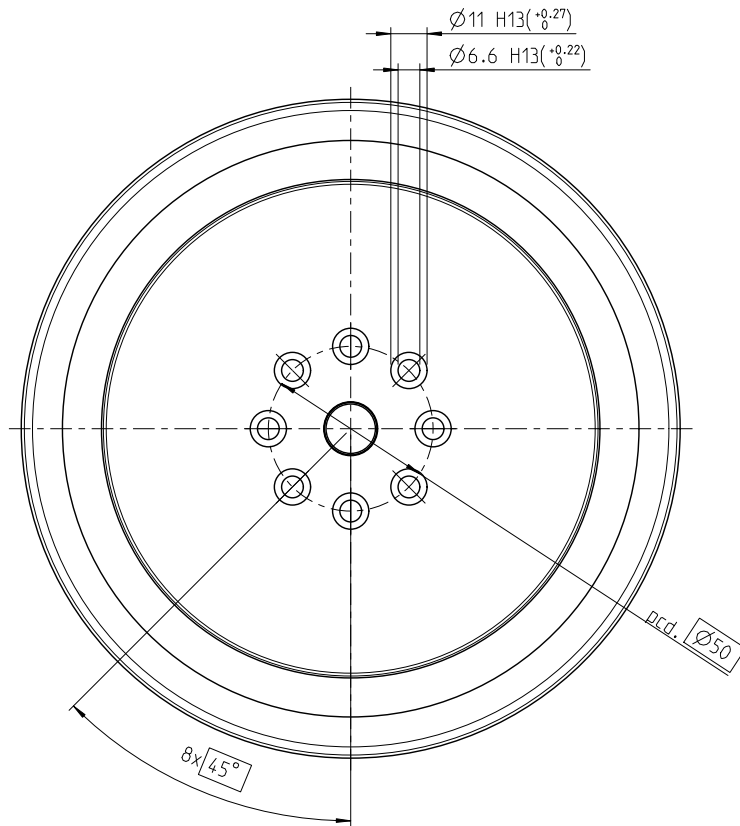
Numbers printed on the cables







INDEX	ZMĚNA	DATUM	PODPIS		
ZM.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
ROZM. ZAŘ.				ČSN	TR.Č.
VYPR.		NORM. REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.		SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.
NÁZEV				TGN4, TGH4, TGT4	
Gearbox NGV090				Listů	List



Weight (without screws)	m_s	kg	3.6
Mass inertia (without screws)	J	kgcm ²	202.93
Threat	-	-	Blickle Bestthane [®] , 92° Shore A (brown)
Rim	-	-	Gray cast iron (painted in silver)
Permissible speed	v_{max}	m/s	2
Permissible payload	F_{max}	kg	800

INDEX	ZMENA	DATUM	PODPIS	
ZM.MAT.		T.O.	HMOTNOST kg	MEŘ.
ROZM.-POLOT.				
ROZM. ZAR.			ČSN	TR.Č.
VYPR.	NORM. REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.				
TECHNOL.	SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.
NÁZEV				
			LISTŮ	LIST