Engineering motordata (WIN 1726)		
DC bus voltage	24	V DC
Nominal AC voltage	17	V AC (rms)
Rated voltage	13	V AC (rms)
Rated power	2.6	kW
Rated speed	3000	rpm
Rated torque	8.40	Nm
Rated current	131.42	A (rms)
Peak torque	20	Nm
Peak current	358.11	A (rms)
Stall torque	11.6	Nm
Stall current	172.74	A (rms)
No load speed	4180	rpm
EMF constant ±10%	4.1	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.07	Nm / A (rms)
Torque constant ±10% @ rated load	0.06	Nm / A (rms)
Number of poles	10	
Electrical time constant	6.67	ms
Winding terminal resistance	0.003	Ω
Rotary field terminal inductance	0.02	mH

Customs info	
HS Code	85015220

Mechanical motor data (setting 5)		
Max mechanical speed	9000	rpm
Mech. time constant	0.95	ms
Thermal time constant	40	min
Rotor inertia	8.4	kgcm²
Protection	IP65	
Color	RAL 9005	
Cooling	Convection	

Sensors	
Temperature	PT1000 {PT1000}
Feedback	2-pole resolver (ER5Kd411, TS2620N21E11, RE-15-1-A15)

Brake		
Braking torque	18.00	Nm
Voltage	24	V DC
Power @20°C	24.0	W
Current @20°C	1.00	A
Inertia	2.00	kgcm²
Mass	1.80	kg

Gearbox engineering data		
Gear ratio	20	
Efficiency*	96	%
Torsional stiffness	76	Nm/arcmin
Number of stages	2	
Rated output torque	150	Nm
Cycling output torque	300	Nm
Max output torque	480	Nm
Emergency output torque	650	Nm
Rated input speed	3750	rpm
Max input speed	10000	rpm
Operating temperature	<-40; 60>	°C
Max. backlash	< 1	arcmin
Service life	20000	h

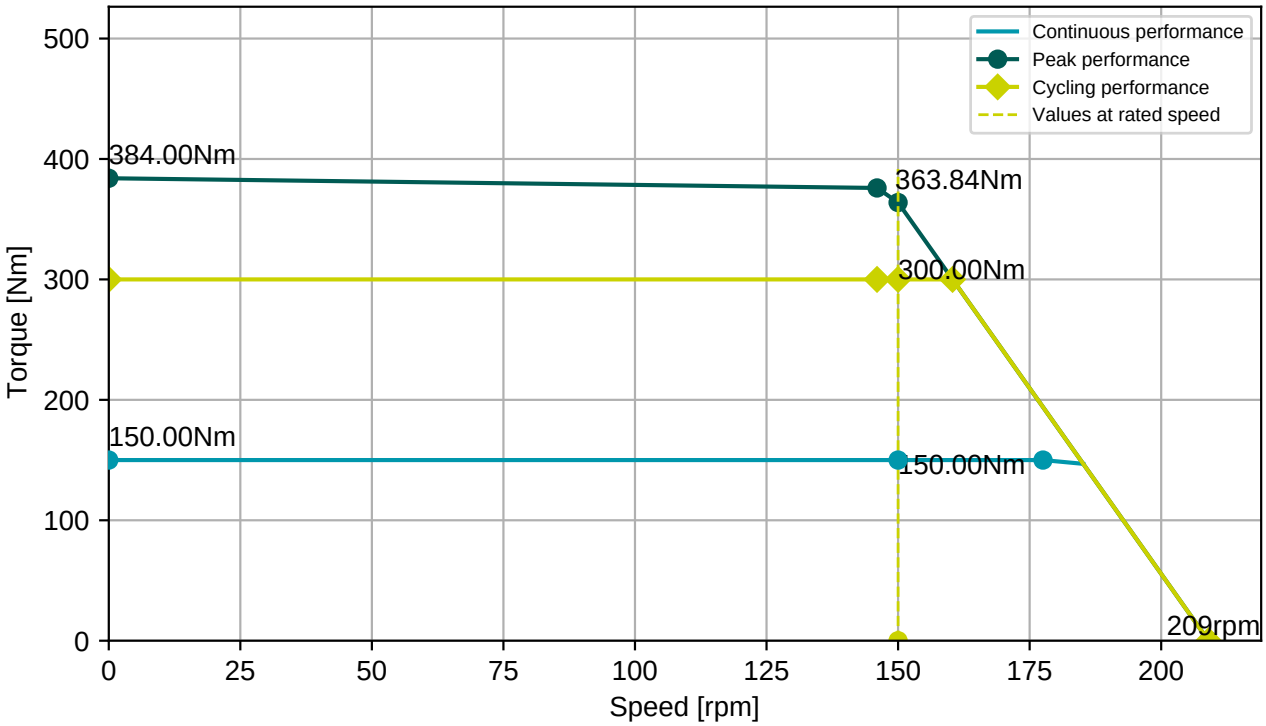
** at rated speed & torque*

Gearbox mechanical data		
Radial force for 20'000h	4900	N
Radial force for 30'000h	4350	N
Max. radial force	4900	N
Axial force for 20'000h	9500	N
Axial force for 30'000h	8400	N
Max. axial force	9500	N
Tilting moment for 20'000h	475	Nm
Tilting moment for 30'000h	422	Nm
Max. bending moment	38	Nm
Output shaft design	Flange	
Mass	7.65	kg
Input inertia	2.038	kgcm²
Protection	IP65	

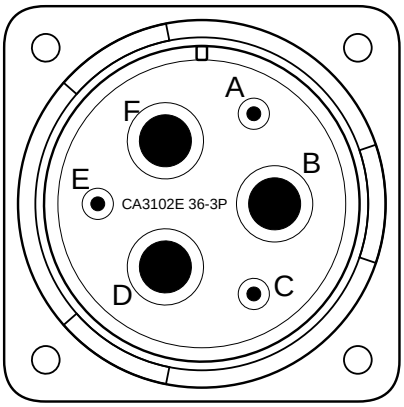
Lubrication	
Type	Low temperature
Lubricant	Klübersynth GH 6-32

Actuator data		
Rated speed	150	rpm
Rated torque	150.00	Nm
Cycling torque	300.00	Nm
Peak torque	384.00	Nm
Emergency stop torque	400.00	Nm
EMF constant ±10%	82.0	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	1.23	Nm / A (rms)
Output inertia	4175.2	kgcm²

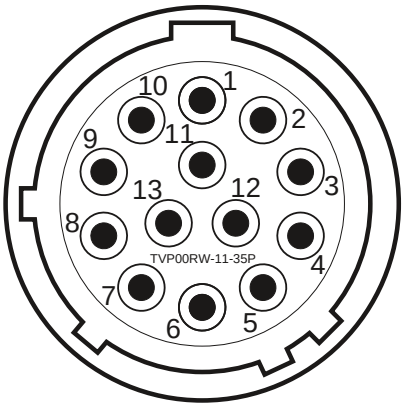
Torque / speed curve



CA3102E36-3P-B-A232-F0

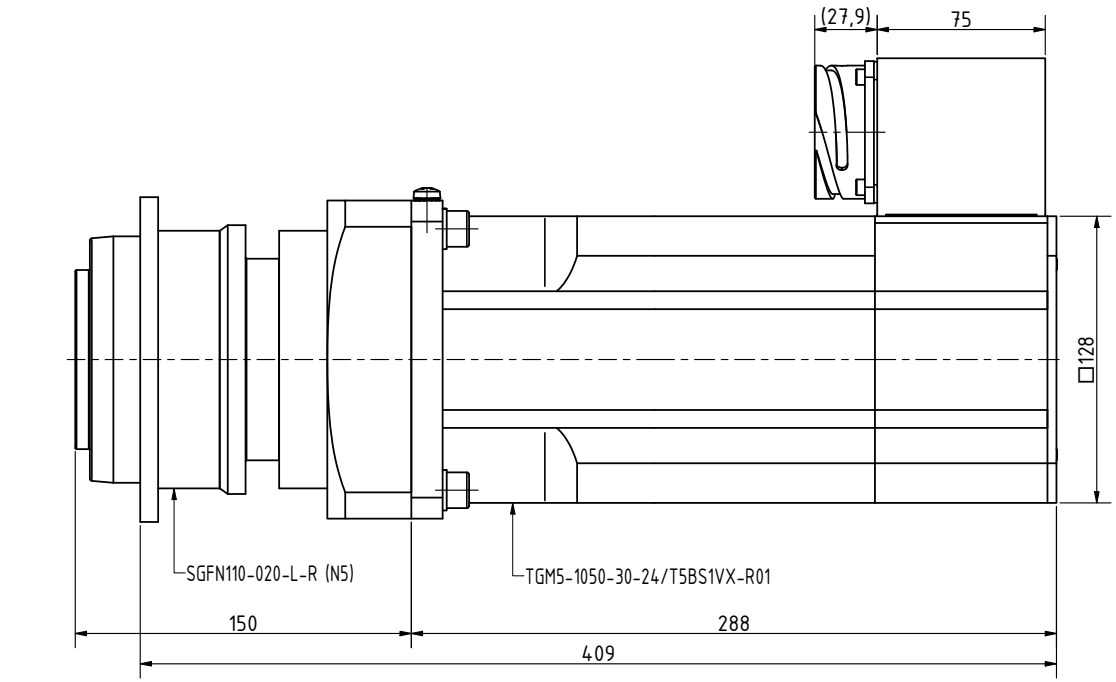


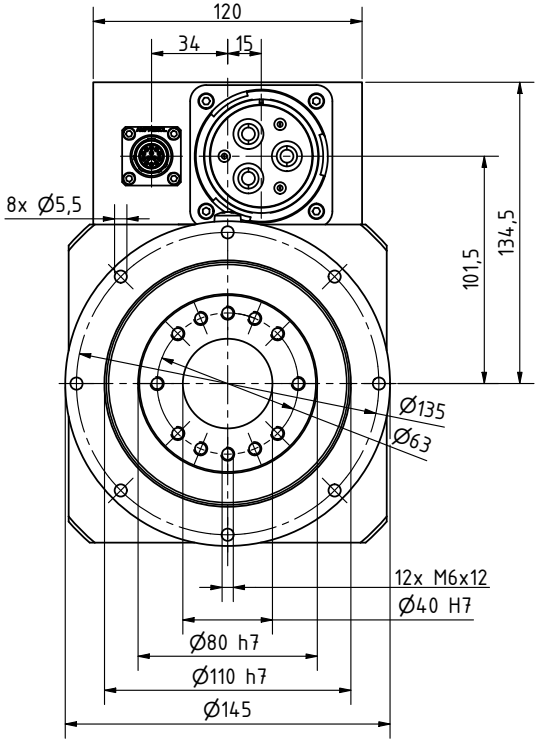
TVP00RW-11-35P

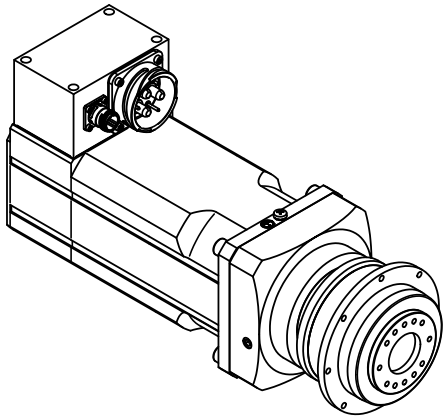


Connector 1 (454)	
B	U
C	Brake+
D	V
E	Brake-
F	W

Connector 2 (267)	
1	S1
2	S3
3	S4
4	S2
5	R2
6	R1
7	Temp+
8	Temp-
9	Loopback+
10	Loopback-



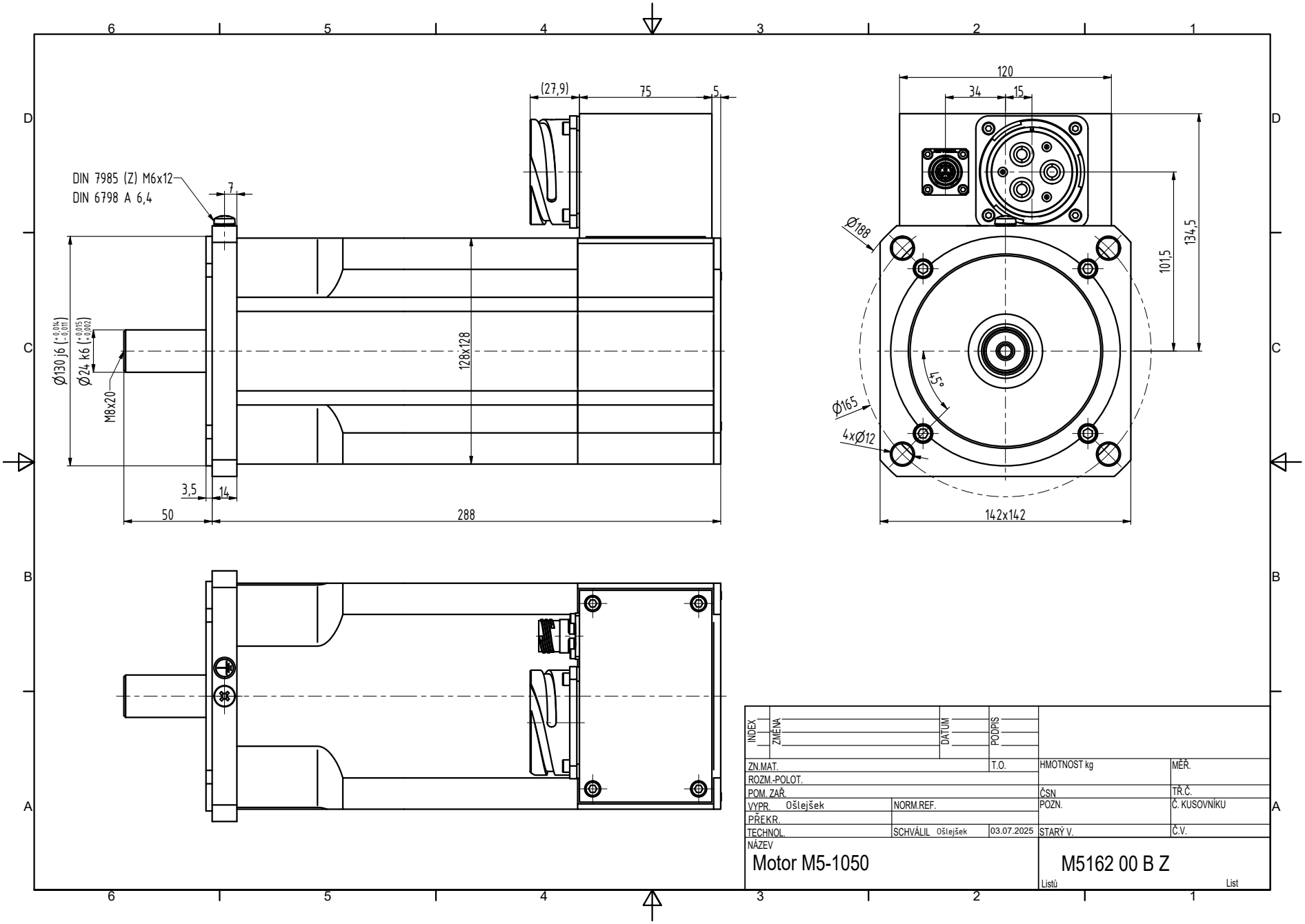




Bill of material			
Part Name	Quantity	Type	Tools
Screw - DIN 912/A4-70/M10x40	4	A4-70	imbus-M10
Washer - DIN 128A/A4 M10	4	A4	

Untolerated dimensions: ISO 2768 - m

Drawen:	Štěpán Bednář	Created: 17.02.2026	Modified:
Checked/approved by:		PROJECT NAME: **Gearbox SGFN110-020-L-R (N5)**	
Material			
Semiprod.		NUMBER - TITLE: SGFN110-020-L-R (N5)	
Project ID's			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM ANGLES ±XXX°or ±XXXX, 2 PL ±XXX, 3PL ±XXXX		SIZE A3	QUANTITY: REVISION:
Designer: Bednar Mail: bednar@tgdrives.cz Tel: +420 724844770	Olomoucka 1290/79 627 00 Brno Czech republic	AUTODESK	SCALE: 1:2 WEIGHT: SHEET: 1/1



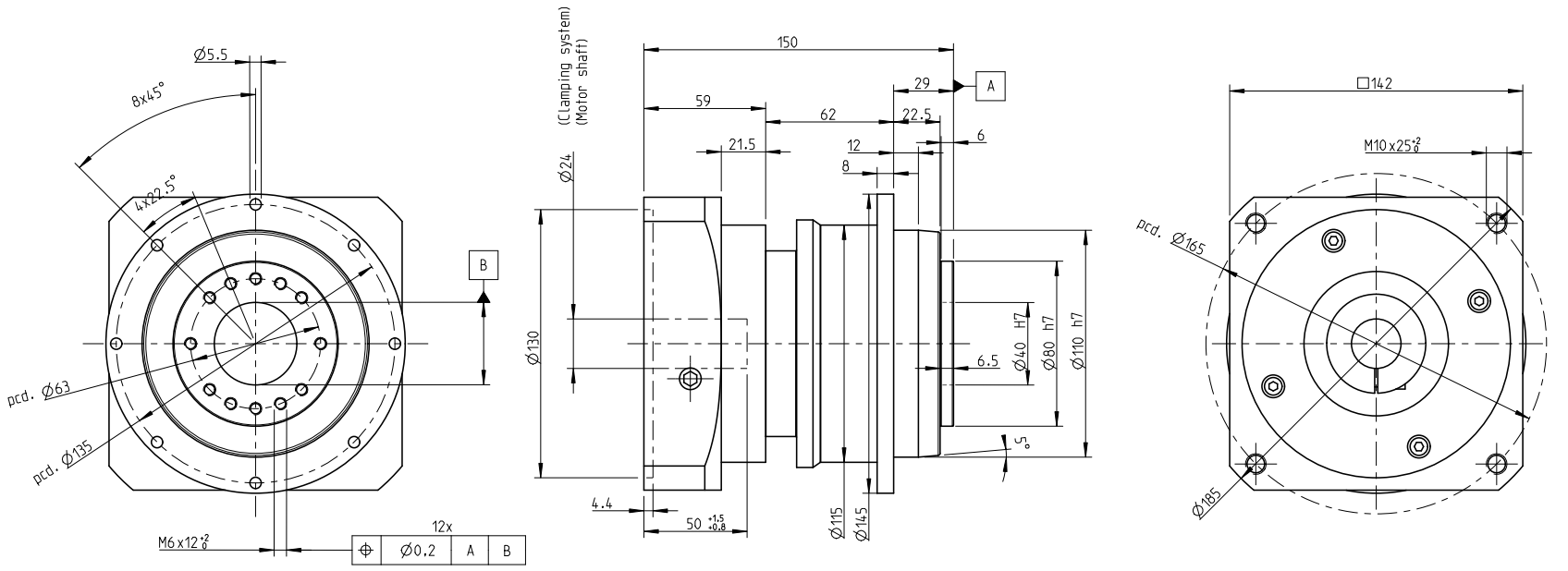
INDEX	ZMĚNA	DATUM	PODPIS		
ZN.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
POM. ZAŘ.				ČSN	TŘ.Č.
VYPR. Ošlejšek	NORM.REF.			POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.	SCHVÁLIL Ošlejšek	03.07.2025		STARÝ V.	Č.V.

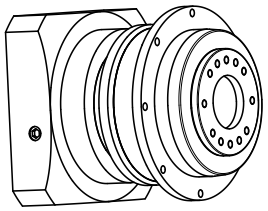
NÁZEV

Motor M5-1050

M5162 00 B Z

Listů List





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 SGFN110				TGN5, TGT5, TGH5	
				Listů	List