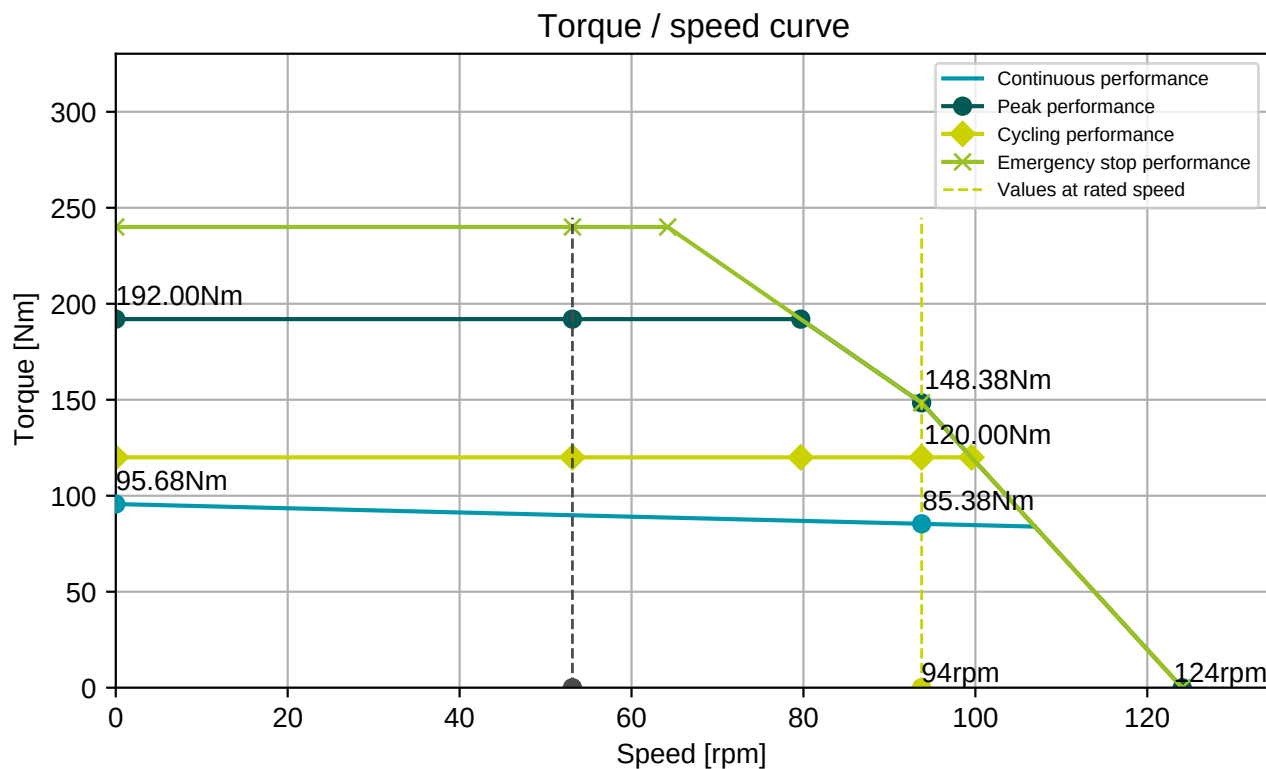


Engineering motordata (WIN 1557)		Mechanical motor data (setting 48)	
DC bus voltage	48 V DC	Max mechanical speed	12000 rpm
Nominal AC voltage	33 V AC (rms)	Mech. time constant	0.84 ms
Rated voltage	27 V AC (rms)	Thermal time constant	34 min
Rated power	911 W	Rotor inertia	1.1 kgcm ²
Rated speed	3000 rpm	Protection	IP64
Rated torque	2.90 Nm	Color	RAL 9005
Rated current	24.07 A (rms)	Cooling	Convection
Peak torque	9.45 Nm	Motor-only mass	2 kg
Peak current	103.5 A (rms)	Sensors	
Stall torque	3.25 Nm	Temperature	PT1000 {PT1000}
Stall current	23.7 A (rms)	Feedback	EEM37 (HDSL) multi-turn, 17+12 bits
No load speed	3970 rpm	Brake	
EMF constant ±10%	8.28 V AC (rms) / 1000rpm	Braking torque	4.50 Nm
Theoretical torque constant ±10%	0.137 Nm / A (rms)	Voltage	24 V DC
Torque constant ±10% @ rated load	0.120 Nm / A (rms)	Power @20°C	12.0 W
Number of poles	10	Current @20°C	0.50 A
Electrical time constant	2.89 ms	Inertia	0.20 kgcm ²
Winding terminal resistance	0.083 Ω	Mass	0.47 kg
Rotary field terminal inductance	0.24 mH	Customs info	
HS Code	85015220		

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	32	Radial force for 20'000h	750 N*
Efficiency	92 %*	Radial force for 30'000h	650 N*
Torsional stiffness	9.6 Nm/arcmin	Max. radial force	1250 N*
Number of stages	2	Axial force for 20'000h	1000 N
Rated output torque	102 Nm	Axial force for 30'000h	900 N
Cycling output torque	120 Nm	Max. axial force	1600 N
Max output torque	192 Nm	Tilting moment for 20'000h	31 Nm
Emergency output torque	240 Nm	Tilting moment for 30'000h	27 Nm
Rated input speed	4000 rpm	Max. bending moment	16 Nm
Max input speed	7000 rpm	Output shaft design	Shaft key
Operating temperature	<-25; 90> °C	Mass	4.15 kg
Max. backlash	< 15 arcmin	Input inertia	0.869 kgcm ²
Service life	20000 h	Protection	IP54
* at rated speed & torque		* Defined for point of action at ½ output shaft length	

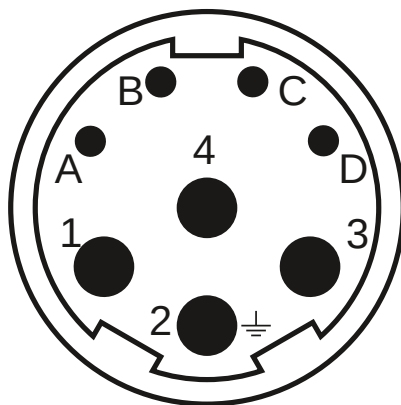
Lubrication	
Type	Standard
Lubricant	Grease (lifetime lubrication)

Actuator data	
Rated speed	94 rpm
Rated torque	85.38 Nm
Cycling torque	120.00 Nm
Peak torque	192.00 Nm
Emergency stop torque	240.00 Nm
EMF constant ±10%	265.0 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	3.55 Nm / A (rms)
Total mass	6.62 kg
Output inertia	2016.3 kgcm ²



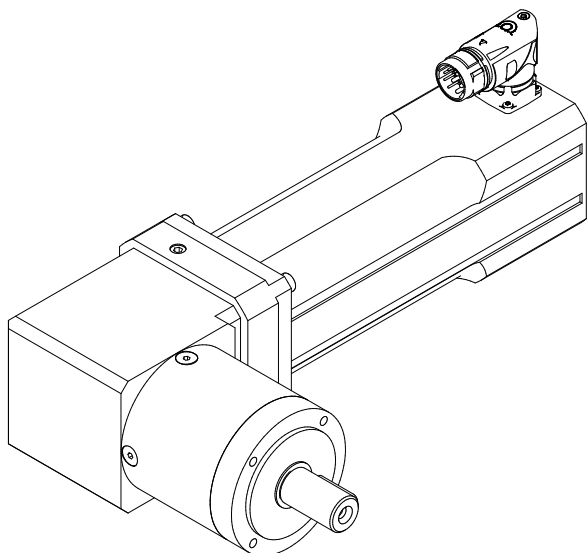
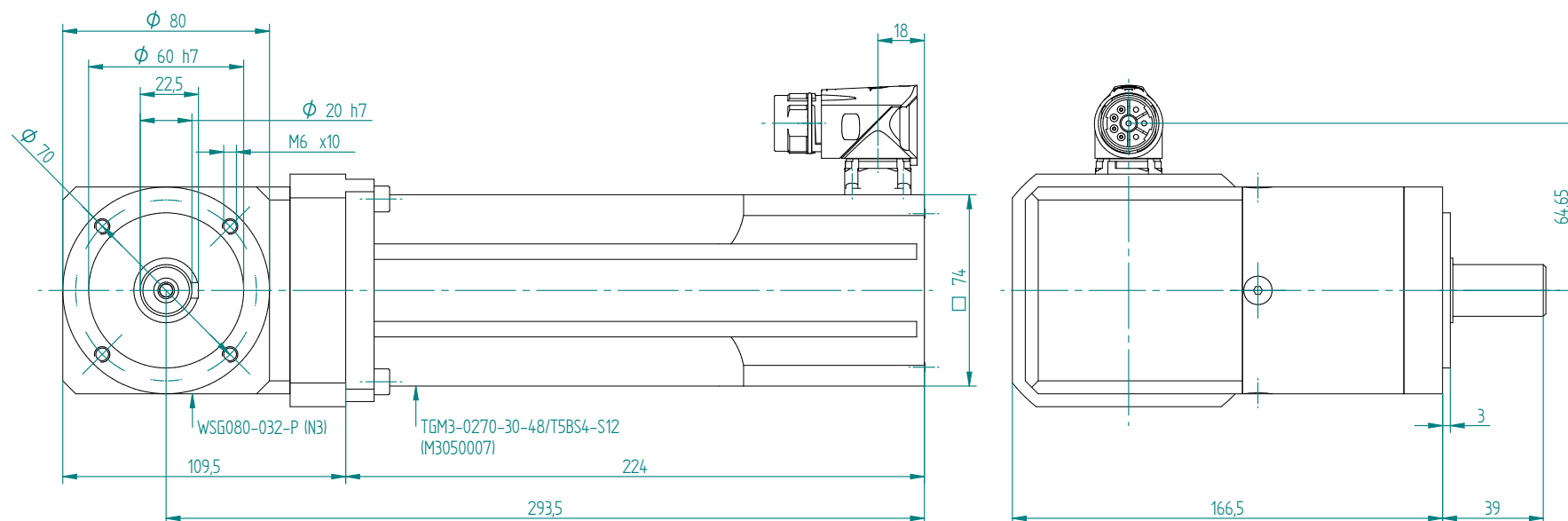
BGC110N00001216000

M23, 8 poles, rotary



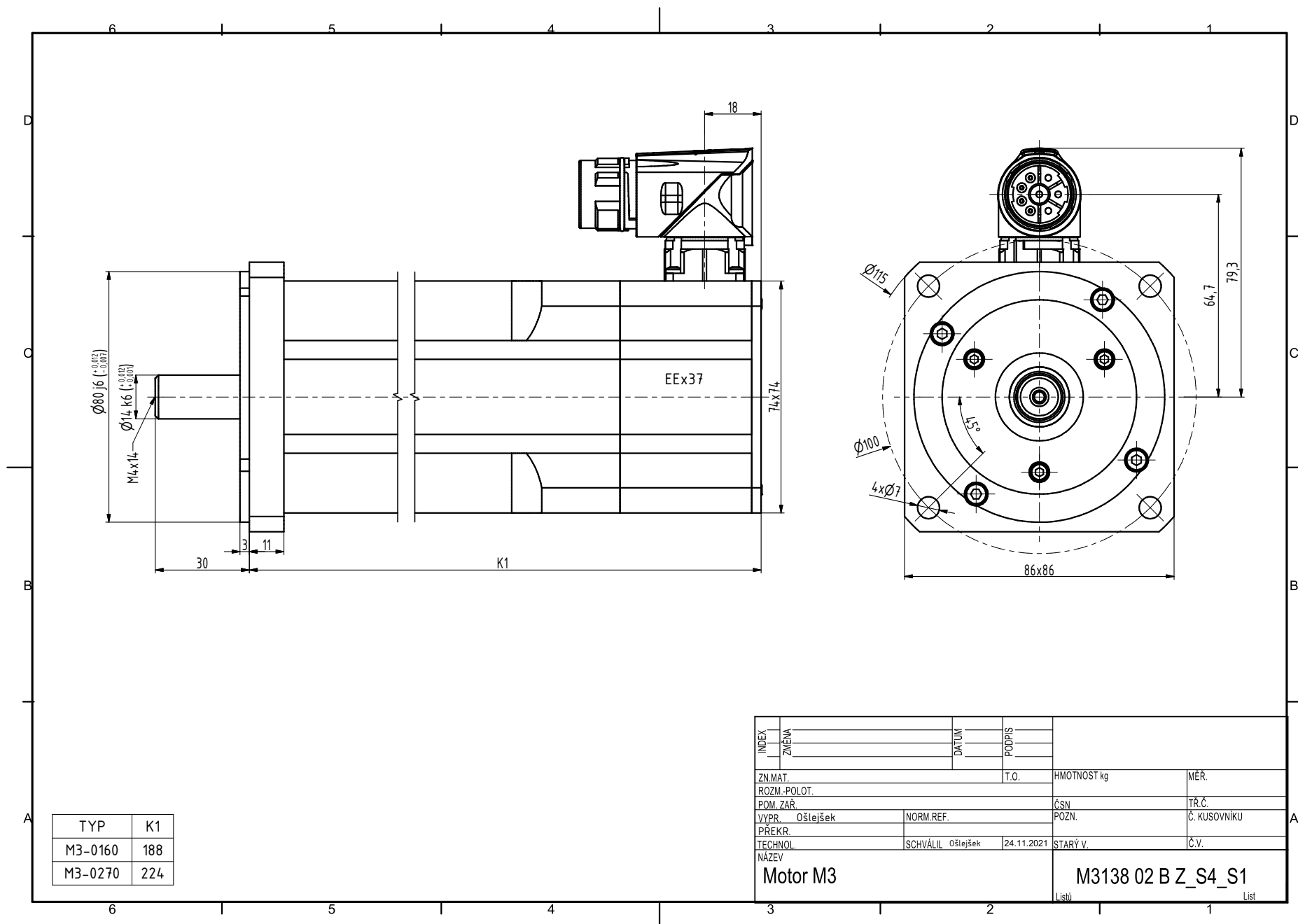
Connector 1 (283)

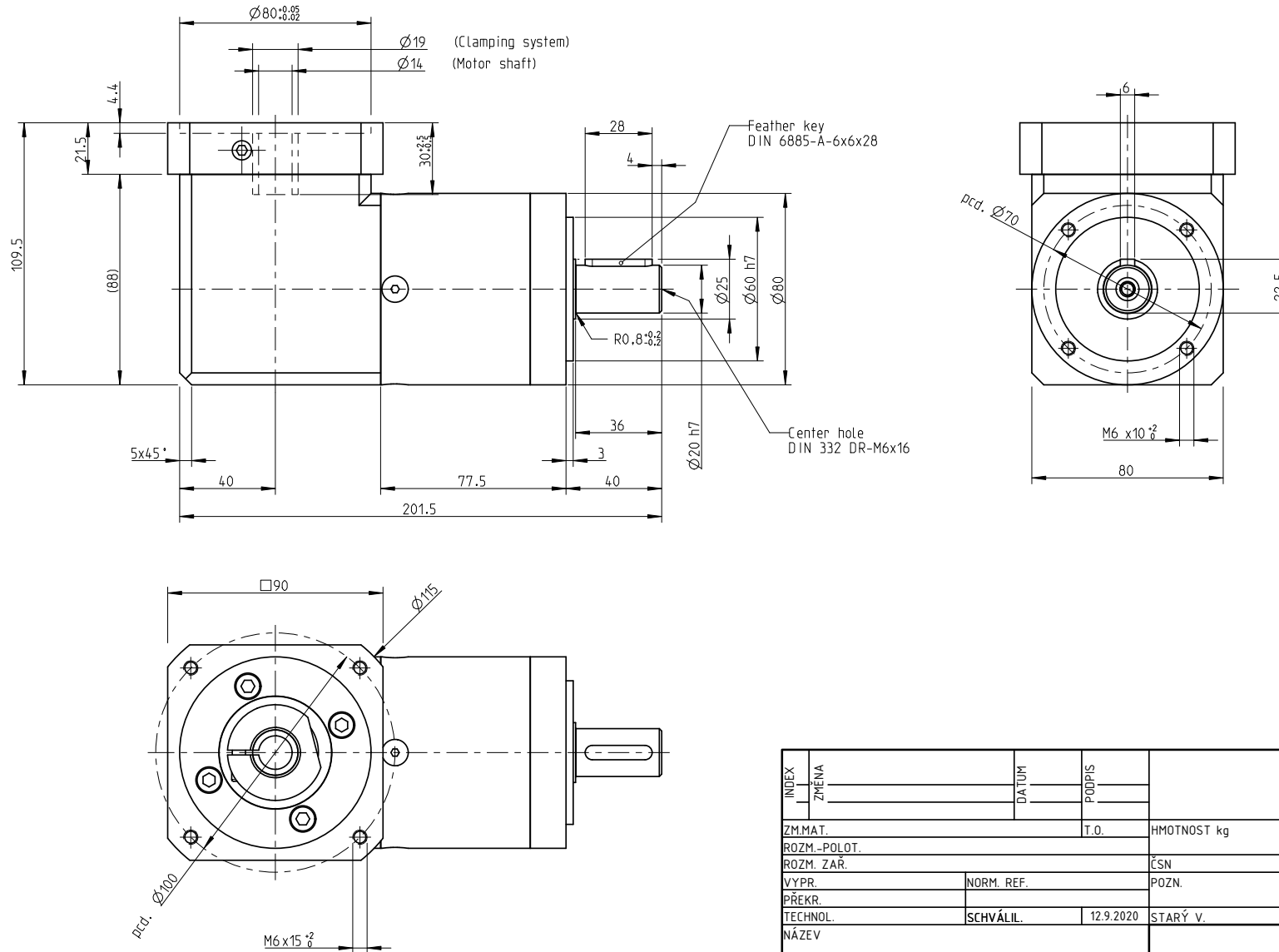
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	GND/DSL-
D	+Us/DSL+



Bill of materials			
Part Name	Quantity	Type	Tools
Screw_DIN 912_A4 - 70_M6x25	4	A4 - 70	inbus - M6

Drawn: Stepan Bednar		Created: 13.06.2025		Modified: 13.06.2025	
Checked / approved by: - - -		PROJECT NAME: Gearbox WSG080-032-P (N3)			
Material:		NUMBER - TITLE: WSG080-032-P (N3)			
Semiprod.					
Project IDs					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM ANGLES «XXX» or «X/XX», 2 PL «XX», 3 PL «XXXX»					
Designer: Bednar Mail: bednar@tgdrives.cz Tel: +420 724844770		 Blatná 129/79 527 00 Brno Czech republic 		SIZE: A3 QUANTITY: REVISION: - - -	
		2240-SplitterboxWSG080-032-P N3WSG080-032-P N3M7			
		SCALE :		WEIGHT:	
		SHEET 1 OF 3			





INDEX	ZMĚNA	DATA	PODPIS		
ZMMAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
ROZM. ZAR.				ČSN	TRČ.
VYPR.		NORM. REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.		SCHVÁLIL.	12.9.2020	STARÝ V.	Č.V.
NÁZEV	Gearbox WSG080			TGN3, TGT3, TGH3	
				Listů	List