Engineering data (WIN 729)		
DC bus voltage	560	V DC
Nominal AC voltage	380	V AC (rms)
Rated voltage	291	V AC (rms)
Rated power	3.3	kW
Rated speed	3000	rpm
Rated torque	10.50	Nm
Rated current	8.25	A (rms)
Peak torque	36	Nm
Peak current	29.4	A (rms)
Stall torque	12	Nm
Stall current	8	A (rms)
No load speed	4170	rpm
EMF constant ±10%	91	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	1.51	Nm / A (rms)
Torque constant ±10% @ rated load	1.27	Nm / A (rms)
Number of poles	10	
Electrical time constant	8.20	ms
Winding terminal resistance	1.33	Ω
Rotary field terminal inductance	10.9	mH

Customs info	
HS Code	85015220

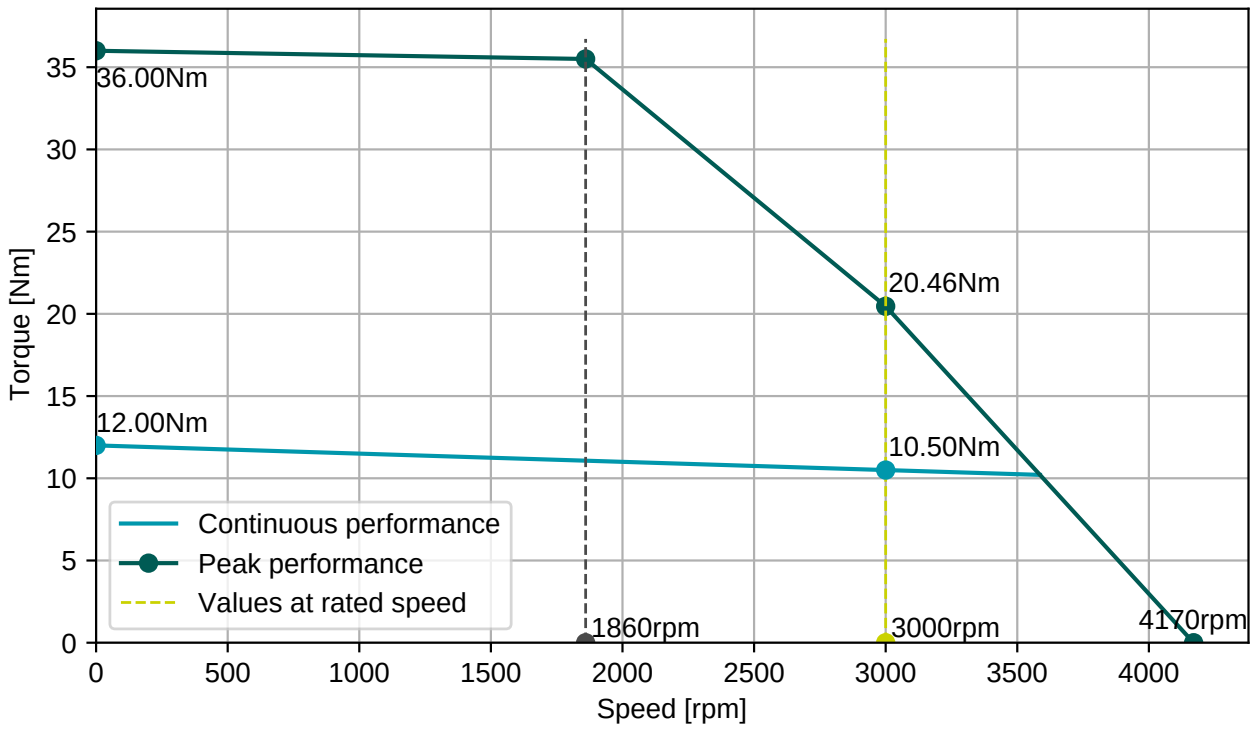
Mechanical data (setting 46)		
Max mechanical speed	9000	rpm
Mech. time constant	0.80	ms
Thermal time constant	45	min
Rotor inertia	7.9	kgcm²
Protection	IP64	
Color	RAL 9005	
Cooling	Convection	
Motor-only mass	7.5	kg
Max. axial force 20kh	129	N
Max. radial force 20kh*	681	N
Max. axial force 100kh	76	N
Max. radial force 100kh*	398	N

** Defined for point of action at ½ output shaft length*

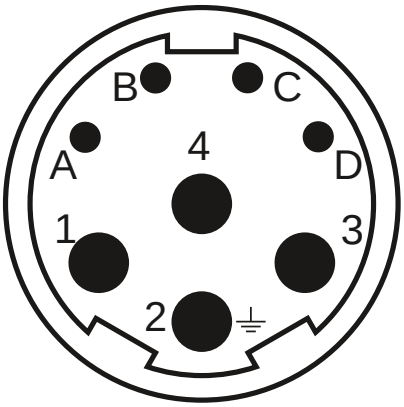
Sensors	
Temperature	PT1000 {PT1000}
Feedback	SKS36 (Hiperface) single-turn, 128 sin/cos

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

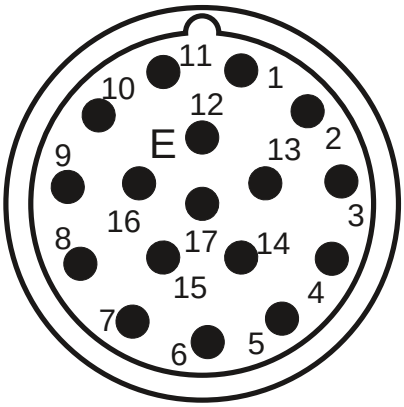
Torque / speed curve



BGC110N00001216000
M23, 8 poles, rotary

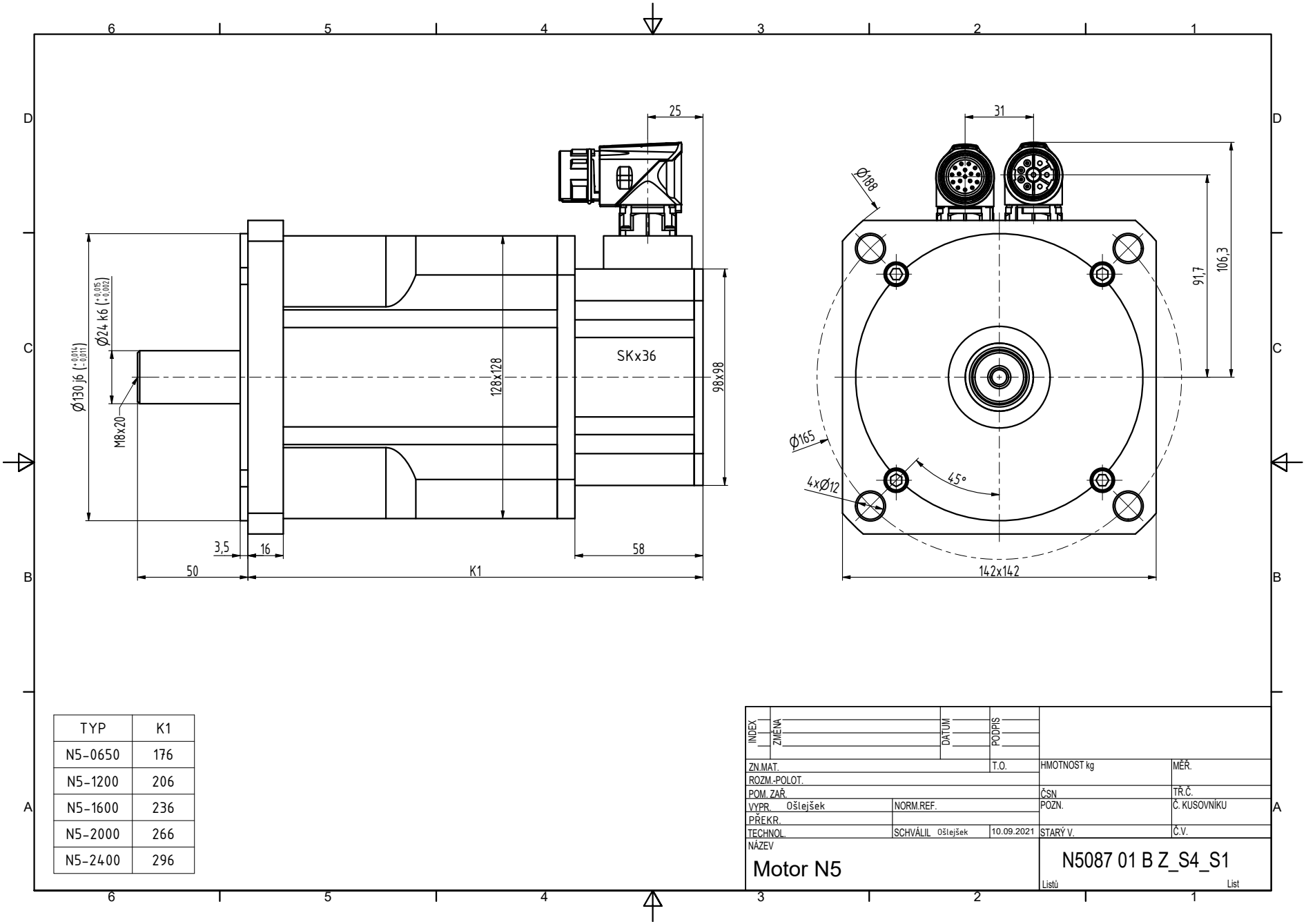


AGC113N00001215000
M23, 17 poles, rotary



Connector 1 (9)	
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	
D	

Connector 2 (130)	
1/9	SIN/REFSIN
3/11	COS/REFCOS
5/13	DATA/DATA-
4/2	Us/GND
14/7	Therm



TYP	K1
N5-0650	176
N5-1200	206
N5-1600	236
N5-2000	266
N5-2400	296

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	10.09.2021	STARÝ V.	Č.V.

NÁZEV

Motor N5

N5087 01 B Z_S4_S1

Listů List