Engineering data (WIN 731)		
DC bus voltage	560	V DC
Nominal AC voltage	380	V AC (rms)
Rated voltage	296	V AC (rms)
Rated power	4.3	kW
Rated speed	3000	rpm
Rated torque	13.80	Nm
Rated current	9.89	A (rms)
Peak torque	48	Nm
Peak current	35.6	A (rms)
Stall torque	16	Nm
Stall current	10.1	A (rms)
No load speed	3950	rpm
EMF constant ±10%	96	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	1.59	Nm / A (rms)
Torque constant ±10% @ rated load	1.40	Nm / A (rms)
Number of poles	10	
Electrical time constant	8.52	ms
Winding terminal resistance	0.88	Ω
Rotary field terminal inductance	7.5	mH

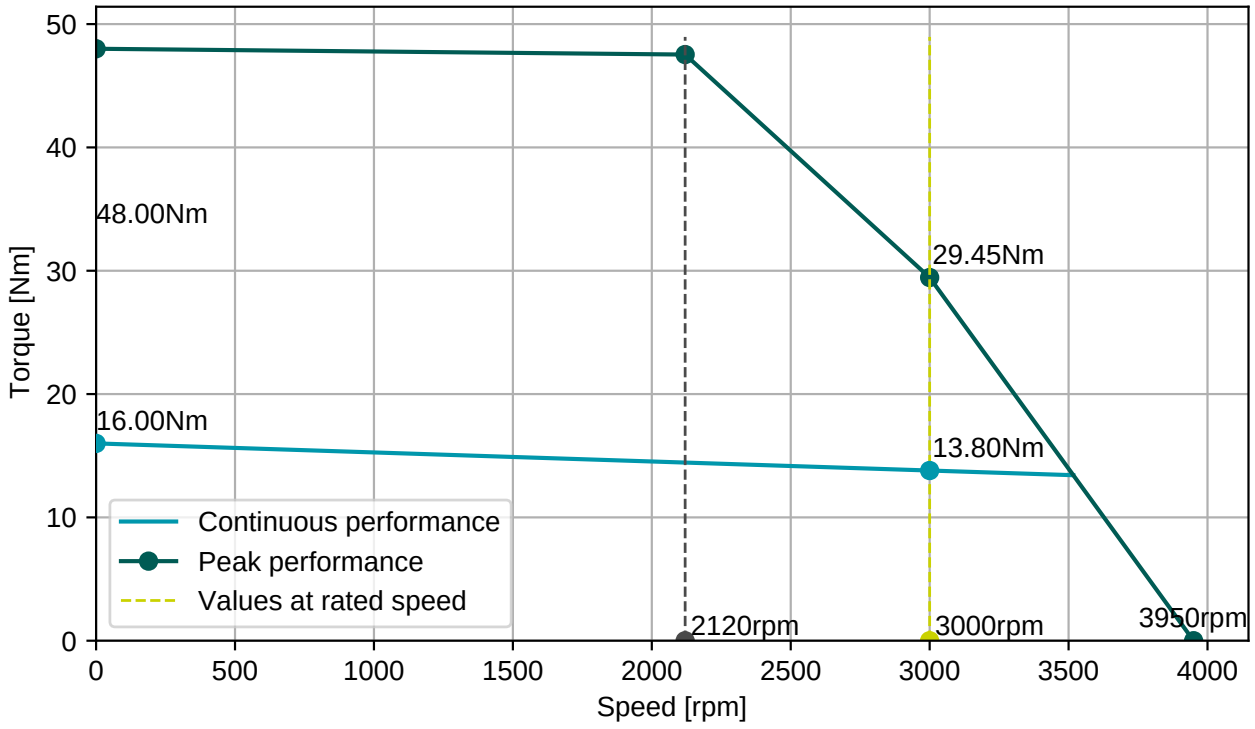
Customs info	
HS Code	85015220

Mechanical data (setting 46)		
Max mechanical speed	9000	rpm
Mech. time constant	0.70	ms
Thermal time constant	55	min
Rotor inertia	11.5	kgcm²
Protection	IP64	
Color	RAL 9005	
Cooling	Convection	
Motor-only mass	9.5	kg
Max. axial force 20kh	136	N
Max. radial force 20kh*	713	N
Max. axial force 100kh	79	N
Max. radial force 100kh*	417	N

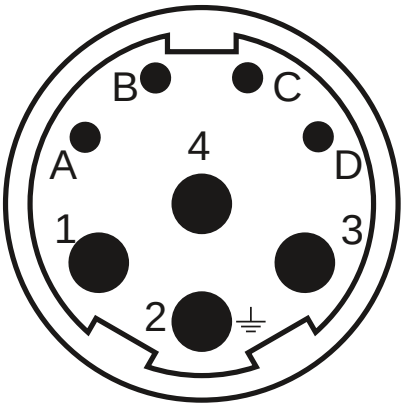
** Defined for point of action at ½ output shaft length*

Sensors	
Temperature	PT1000 {PT1000}
Feedback	SKM36 (Hiperface) multi-turn, 128 sin/cos+12bits

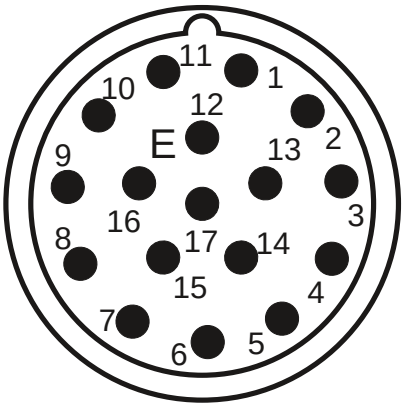
Torque / speed curve



BGC110N00001216000
M23, 8 poles, rotary

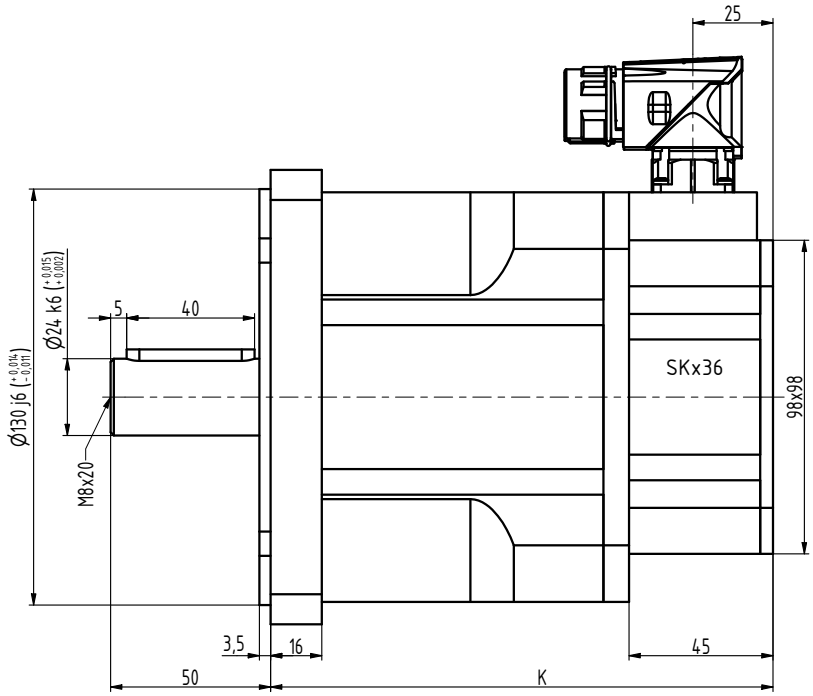


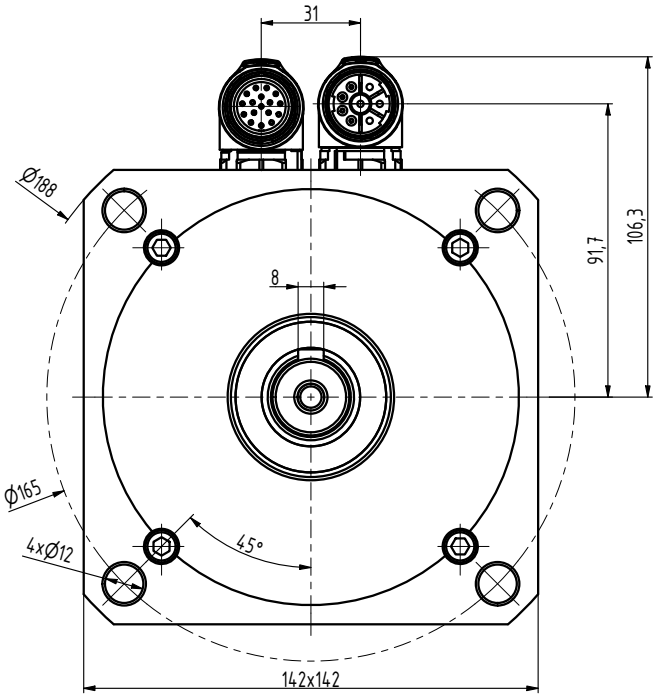
AGC113N00001215000
M23, 17 poles, rotary



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	K
N5-0650	127
N5-1200	157
N5-1600	187
N5-2000	217
N5-2400	247

INDEX	ZMĚNA	DATUM	PODPIS		
ZN.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
POM. ZAŘ.				ČSN	TŘ.Č.
VYPR. Šimík		NORM.REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.		SCHVÁLIL Ošlejšek	10.09.2021	STARÝ V.	Č.V.
NÁZEV	Motor N5			N5087 01 P Z_S4_S1	
				Listů	List