Engineering data (WIN -100014)		
DC bus voltage	320	V DC
Nominal AC voltage	220	V AC (rms)
Rated voltage	137	V AC (rms)
Rated power	4.5	kW
Rated speed	3000	rpm
Rated torque	14.30	Nm
Rated current	21.32	A (rms)
Peak torque	51	Nm
Peak current	99.76	A (rms)
Stall torque	18.7	Nm
Stall current	26.6	A (rms)
No load speed	5170	rpm
EMF constant ±10%	42.5	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.7	Nm / A (rms)
Torque constant ±10% @ rated load	0.7	Nm / A (rms)
Number of poles	10	
Electrical time constant	9.68	ms
Winding terminal resistance	0.124	Ω
Rotary field terminal inductance	1.2	mH

Customs info	
HS Code	85015220

Mechanical data (setting 5)		
Max mechanical speed	9000	rpm
Mech. time constant	0.69	ms
Thermal time constant	60	min
Rotor inertia	15.9	kgcm²
Protection	IP65	
Color	RAL 9005	
Cooling	Convection	
Cable length	0.3	m
Motor-only mass	13.5	kg

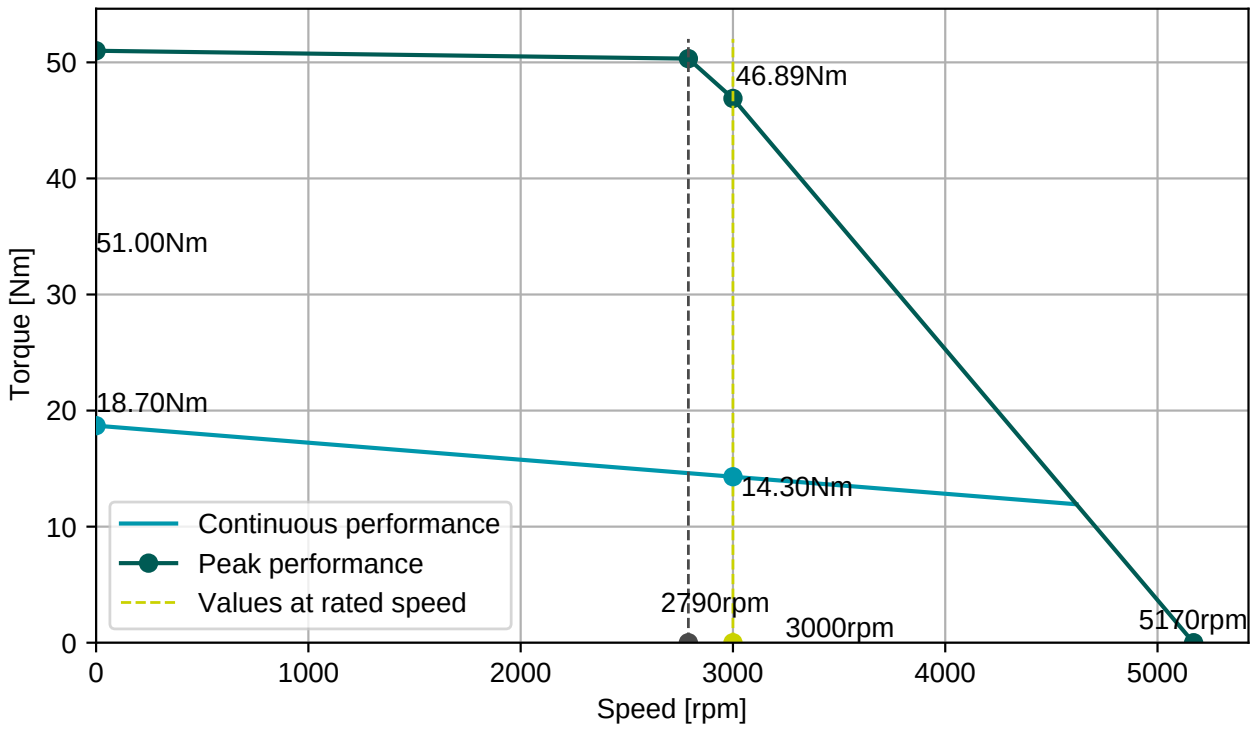
Sensors	
Temperature	PT1000 {PT1000}
Feedback	2-pole resolver (ER5Kd411, TS2620N21E11, RE-15-1-A15)

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

Note

power wires U,V,W - length 300mm
brake, resolver, PT1000 - length 200-250mm

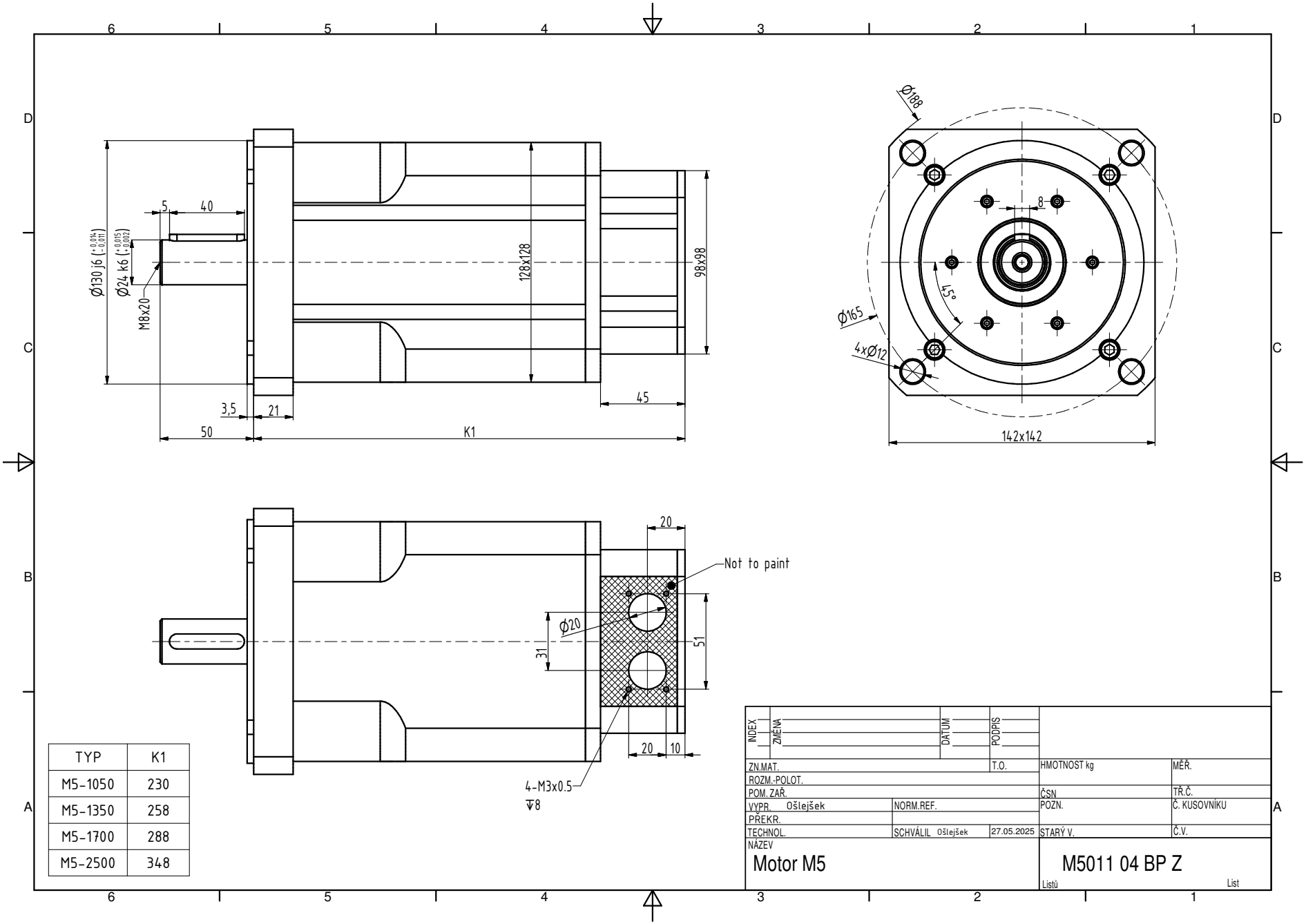
Torque / speed curve



Connector 1 (259)	
white	U
blue	V
red	W

2x Therm
2x Brake

Connector 2 (32)	
red-white	R1
black-white	R2
yellow-white	R2)
red	S1
yellow	S2
black	S3
blue	S4



TYP	K1
M5-1050	230
M5-1350	258
M5-1700	288
M5-2500	348

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	27.05.2025	STARÝ V.	Č.V.
NÁZEV	Motor M5			M5011 04 BP Z	
				Listů	List