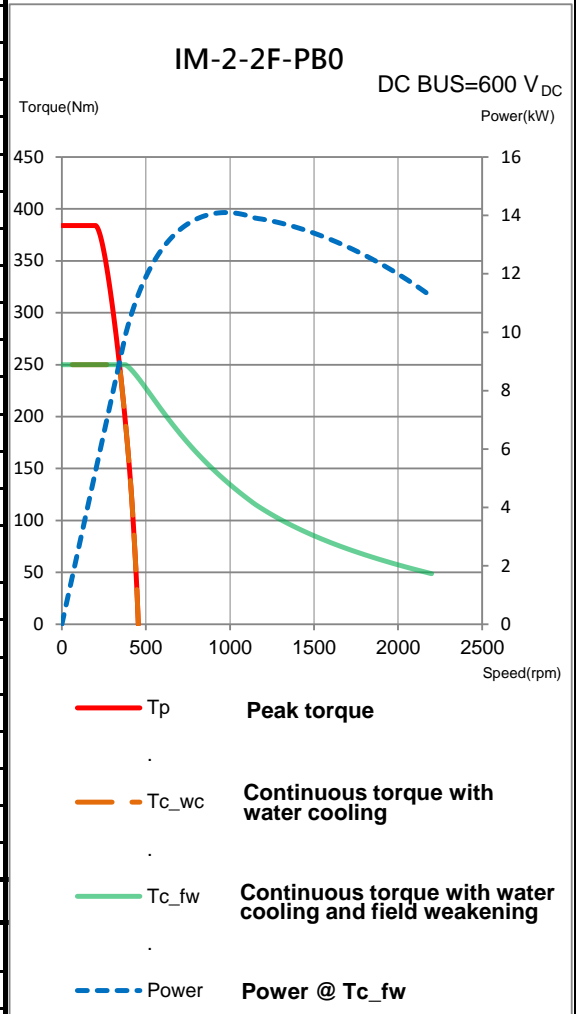


IM-2-2F-PB0

Electrical specifications

Winding code : PB	Symbol	Unit	Field weakening & Water cooling
Continuous torque	T_c	Nm	250
Continuous current	I_c	A_{rms}	20.4
Stall torque	T_s	Nm	210
Stall current	I_s	A_{rms}	16.3
Peak torque(for 1sec.)	T_p	Nm	384
Peak current(for 1sec.)	I_p	A_{rms}	51
Torque constant	K_t	Nm/A_{rms}	14.03
Electrical time constant	T_e	ms	7.2
Resistance (line to line at 25°C)	R_{25}	Ω	3.4
Inductance (line to line)	L_d / L_q	mH	24.6 / 36.16
Number of poles	2p		22
Back emf constant (line to line)	K_v	$V_{rms}/rad/s$	8.1
Motor constant (at 25°C)	K_m	Nm/\sqrt{W}	6.21
Thermal resistance	R_{th}	K/W	0.049
Thermal sensor			PTC SNM100+SNM130+Pt1000
Max. DC BUS		V_{DC}	750
Inertia of rotor	J	kgm^2	0.0215
Thermal time constant	T_{th}	s	110
Max. continuous power dissipation	P_c	W	2996
Max. peak power dissipation	P_p	W	18727
Max. speed(at 600VDC)		rpm	2150
Based speed(at 600VDC)		rpm	379
Rated speed(at 600VDC)		rpm	2150

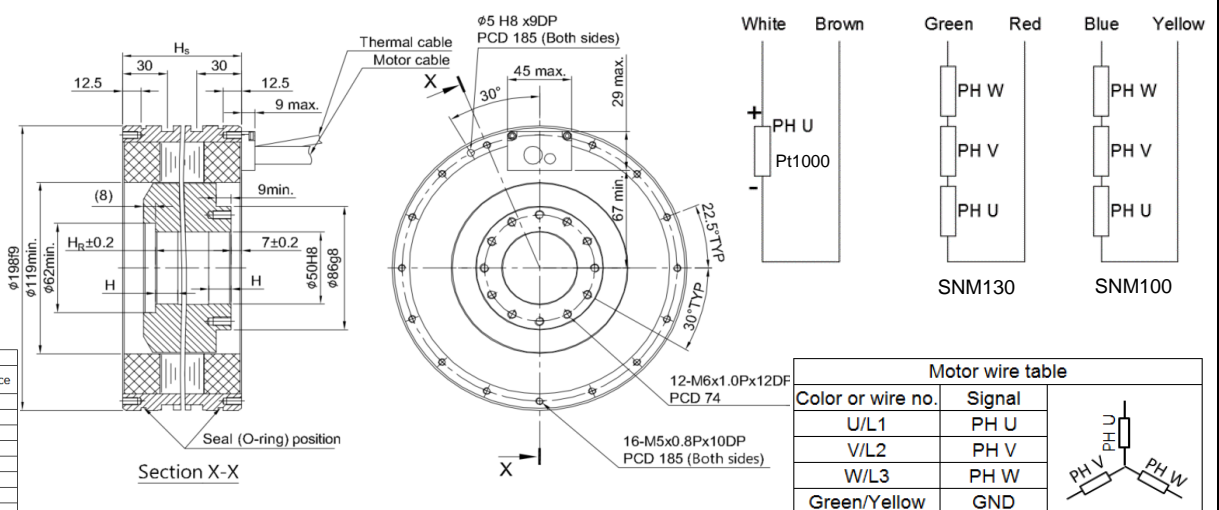
T-N curve



Mechanical specifications

	Symbol	Unit	Field weakening & Water cooling
Mass of rotor	M_r	kg	10.79
Mass of stator	M_s	kg	22.2
Height of stator	H_s	mm	200
Height of rotor	H_r	mm	171
Length of rotor centring fit	H	mm	20
Water temperature difference for P_c	$\Delta\theta$	K	5
Minimum water flow	q	l/min	8.6
Max. pressure drop	Δp	bar	1

Thermal sensor



Except dimensions, all the specifications in the table are in ±10% of tolerance

Version: 2.00

This drawing is only for reference, detail dimensions please refer to approval drawing.

Date: 2020/10/23