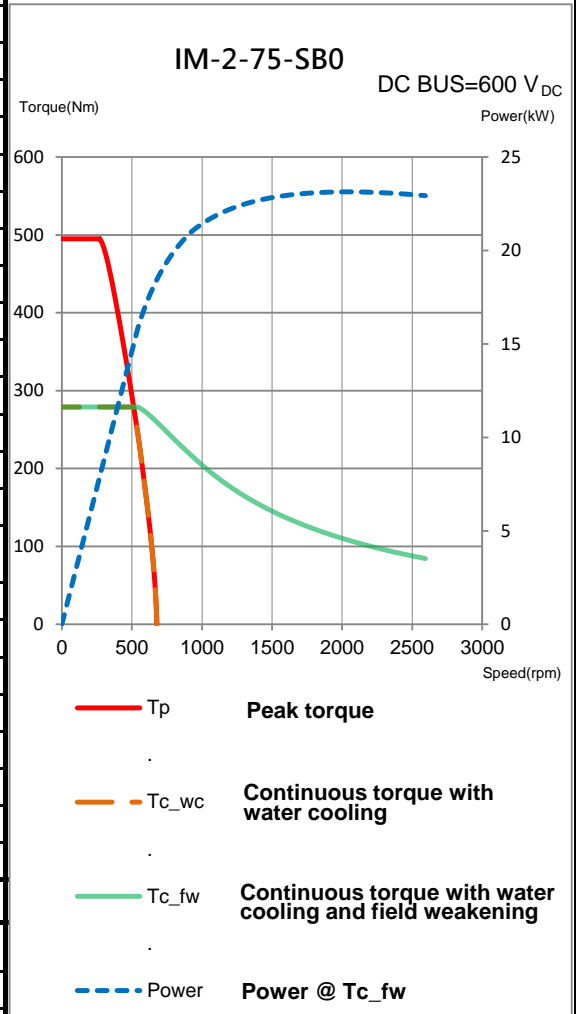


IM-2-75-SB0

Electrical specifications

Winding code : SB0	Symbol	Unit	Field weakening & Water cooling
Continuous torque	T_c	Nm	279
Continuous current	I_c	A_{rms}	32.3
Stall torque	T_s	Nm	229
Stall current	I_s	A_{rms}	25.8
Peak torque(for 1sec.)	T_p	Nm	495
Peak current(for 1sec.)	I_p	A_{rms}	88.3
Torque constant	K_t	Nm/A_{rms}	9.41
Electrical time constant	T_e	ms	6.7
Resistance (line to line at 25°C)	R_{25}	Ω	1
Inductance (line to line)	L_d / L_q	mH	6.65 / 9.07
Number of poles	2p		44
Back emf constant (line to line)	K_v	$V_{rms}/rad/s$	5.43
Motor constant (at 25°C)	K_m	Nm/\sqrt{W}	7.25
Thermal resistance	R_{th}	K/W	0.067
Thermal sensor			PTC SNM100+SNM130+Pt1000
Max. DC BUS		V_{DC}	750
Inertia of rotor	J	kgm^2	0.104
Thermal time constant	T_{th}	s	160
Max. continuous power dissipation	P_c	W	2206
Max. peak power dissipation	P_p	W	16490
Max. speed(at 600VDC)		rpm	2500
Based speed(at 600VDC)		rpm	541
Rated speed(at 600VDC)		rpm	2500

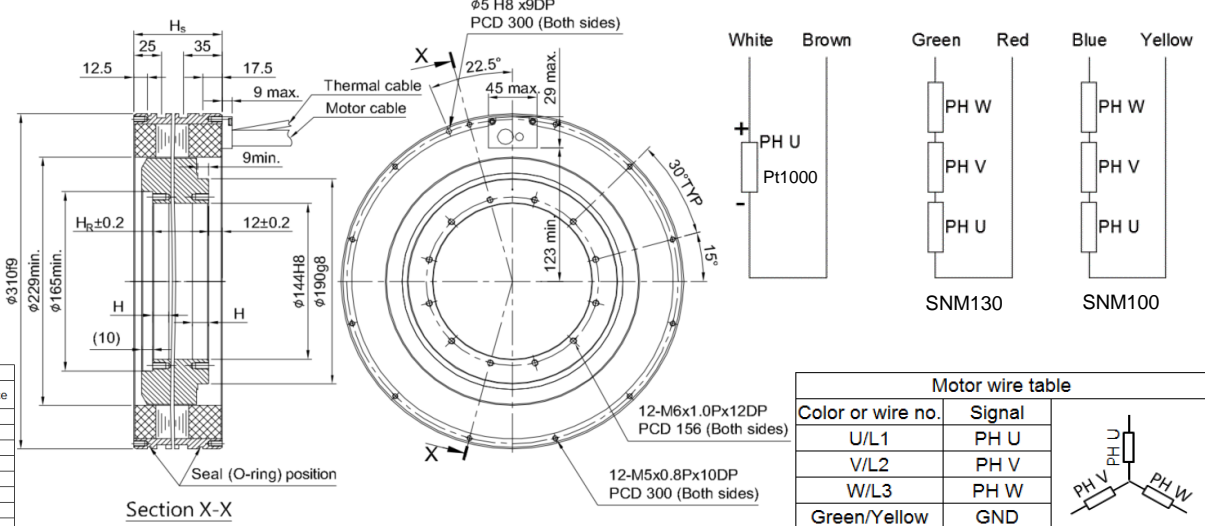
T-N curve



Mechanical specifications

	Symbol	Unit	Field weakening & Water cooling
Mass of rotor	M_r	kg	11.8
Mass of stator	M_s	kg	17.9
Height of stator	H_s	mm	100
Height of rotor	H_r	mm	71
Length of rotor centring fit	H	mm	20
Water temperature difference for P_c	$\Delta\theta$	K	5
Minimum water flow	q	l/min	6.4
Max. pressure drop	Δp	bar	1

Thermal sensor



General tolerance mm	
Nominal dimension	Tolerance
~ 6	±0.1
> 6 ~ 30	±0.2
> 30 ~ 120	±0.3
> 120 ~ 300	±0.4
> 300 ~ 600	±0.5
> 600 ~ 1200	±0.8
> 1200 ~ 2400	±1.0
≥ 2400	±1.5

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