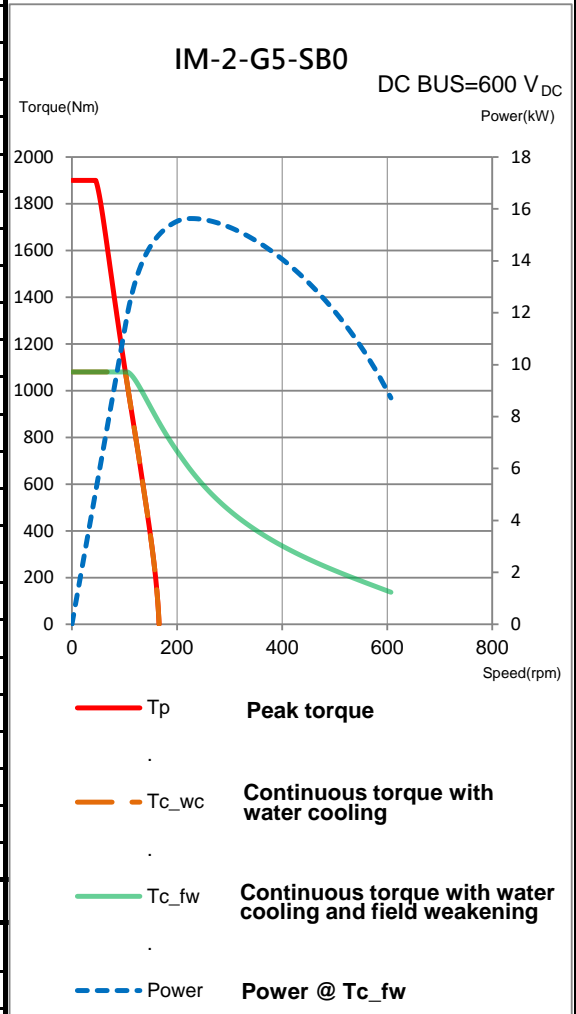


IM-2-G5-SB0

Electrical specifications

Winding code : SB0	Symbol	Unit	Field weakening & Water cooling
Continuous torque	T_c	Nm	1080
Continuous current	I_c	A_{rms}	30.3
Stall torque	T_s	Nm	890
Stall current	I_s	A_{rms}	24.2
Peak torque(for 1sec.)	T_p	Nm	1900
Peak current(for 1sec.)	I_p	A_{rms}	80
Torque constant	K_t	Nm/A_{rms}	38.45
Electrical time constant	T_e	ms	10
Resistance (line to line at 25°C)	R_{25}	Ω	2.1
Inductance (line to line)	L_d / L_q	mH	21 / 23.1
Number of poles	2p		88
Back emf constant (line to line)	K_v	$V_{rms}/rad/s$	22.2
Motor constant (at 25°C)	K_m	Nm/\sqrt{W}	21.13
Thermal resistance	R_{th}	K/W	0.036
Thermal sensor			PTC SNM100+SNM130+Pt1000
Max. DC BUS	V_{DC}		750
Inertia of rotor	J	kgm^2	1.14
Thermal time constant	T_{th}	s	170
Max. continuous power dissipation	P_c	W	4076
Max. peak power dissipation	P_p	W	28416
Max. speed(at 600VDC)		rpm	600
Based speed(at 600VDC)		rpm	105
Rated speed(at 600VDC)		rpm	600

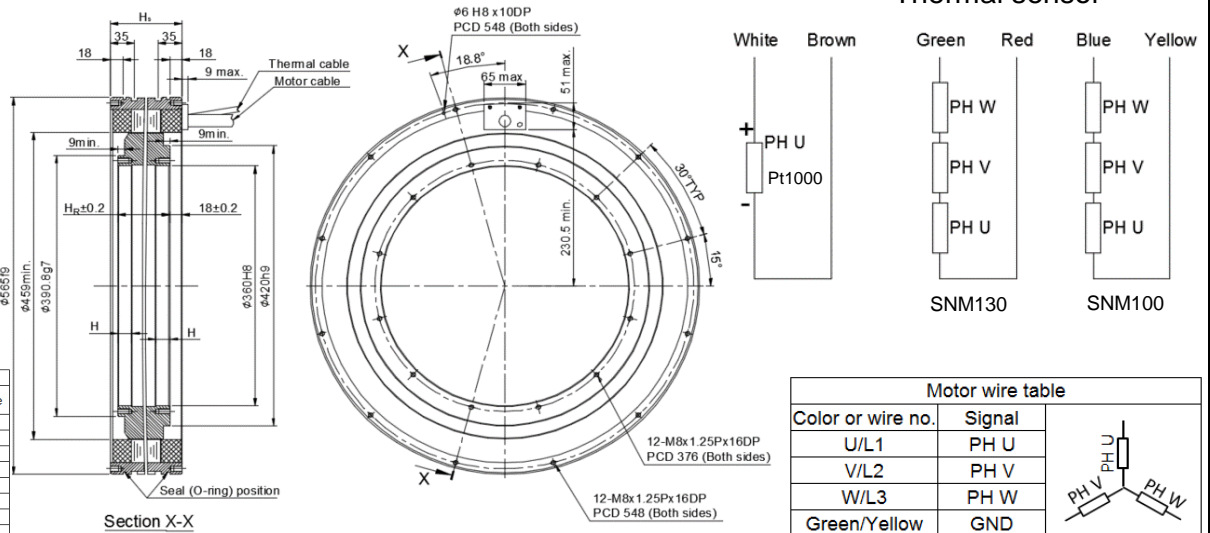
T-N curve



Mechanical specifications

	Symbol	Unit	Field weakening & Water cooling
Mass of rotor	M_r	kg	27.1
Mass of stator	M_s	kg	50
Height of stator	H_s	mm	110
Height of rotor	H_r	mm	81
Length of rotor centring fit	H	mm	20
Water temperature difference for P _c	$\Delta\theta$	K	5
Minimum water flow	q	l/min	11.7
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