

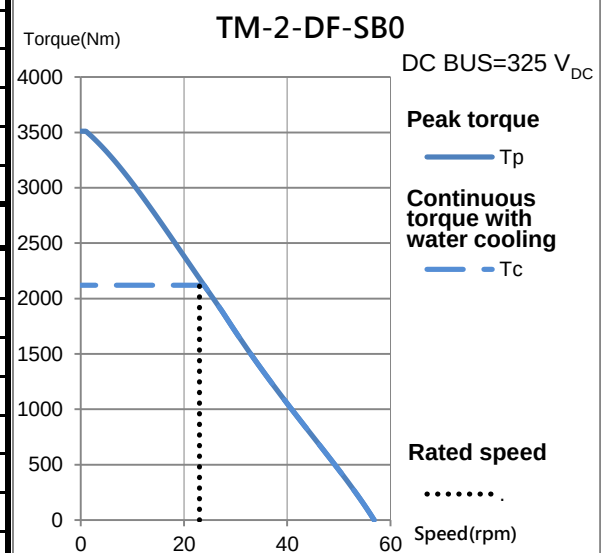
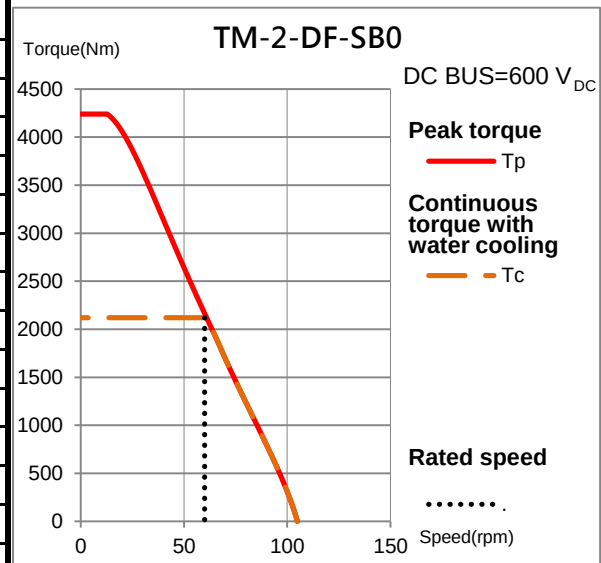
Electrical specifications

Winding code : SB0	Symbol	Unit	Water cooling
Continuous torque	T_c	Nm	2120
Continuous current	I_c	A_{rms}	35.4
Stall torque	T_s	Nm	1719
Stall current	I_s	A_{rms}	28.3
Peak torque(for 1sec.)	T_p	Nm	4240
Peak current(for 1sec.)	I_p	A_{rms}	106
Torque constant	K_t	Nm/Arms	60.79
Electrical time constant	T_e	ms	6.1
Resistance (line to line at 25°C)	R_{25}	Ω	3.8
Inductance (line to line)	L	mH	23.2
Number of poles	2p		88
Back emf constant (line to line)	K_v	Vrms/rad/s	35.1
Motor constant (at 25°C)	K_m	Nm/ $\sqrt{W}$	25.44
Thermal resistance	R_{th}	K/W	0.015
Thermal sensor			PTC SNM100+SNM130+Pt1000
Max. DC BUS		V_{DC}	750
Inertia of rotor	J	kgm^2	0.79
Thermal time constant	T_{th}	s	130
Max. continuous power dissipation	P_c	W	10075
Max. peak power dissipation	P_p	W	90337
Rated speed(at 600VDC)		rpm	60

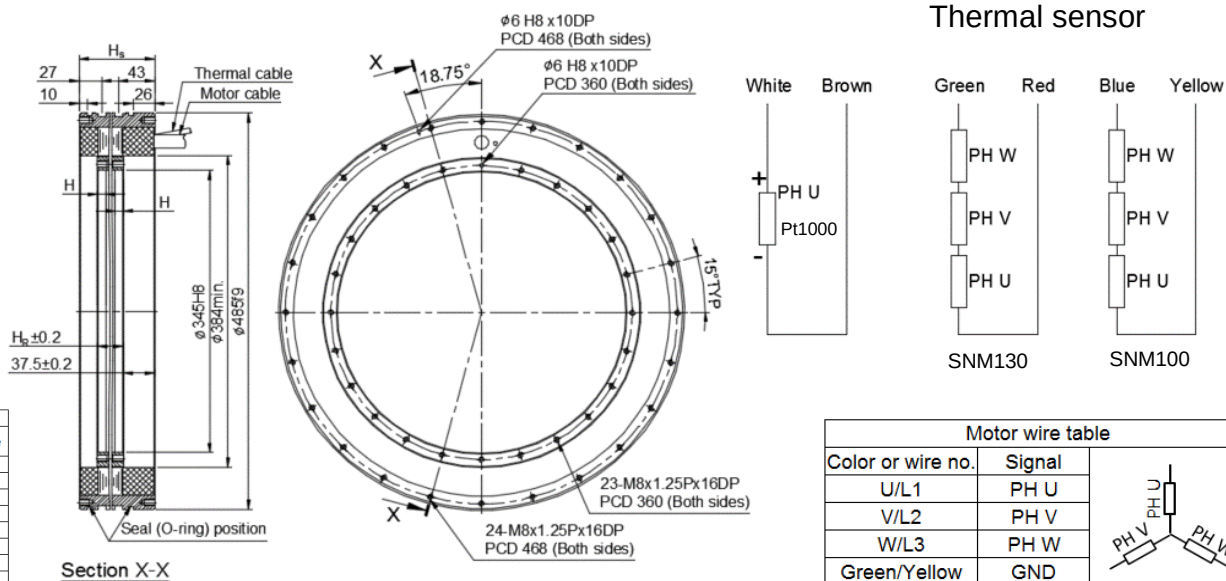
Mechanical specifications

	Symbol	Unit	Water cooling
Mass of rotor	M_r	kg	23.6
Mass of stator	M_s	kg	87
Height of stator	H_s	mm	210
Height of rotor	H_R	mm	151
Length of rotor centring fit	H	mm	15
Water temperture difference for P_c	$\Delta\theta$	K	5
Minimum water flow	q	l/min	28.9
Max. pressure drop	Δp	bar	4

T-N curve



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

Motor wire table	
Color or wire no.	Signal
U/L1	PH U
V/L2	PH V
W/L3	PH W
Green/Yellow	GND

Except dimensions, all the specifications in the table are in $\pm 10\%$ of tolerance
This drawing is only for reference, detail dimensions please refer to approval drawing.

Version: 2.00
Date: 2020/10/23