2020/11/04

				機密文件未經許可,嚴禁複要
IM-2-2A-PD0				
Electrical specifications				T-N curve
Winding code : PD	Symbol	Unit	Field weakening & Water cooling	
Continuous torque	T _c	Nm	168	
Continuous current	I _c	A _{rms}	40.8	IM-2-2A-PD0
Stall torque	Ts	Nm	141	DC BUS=600 V _{DC}
Stall current	I _s	A _{rms}	32.6	Power(kW)
Peak torque(for 1sec.)	T _p	Nm	256	300 35
Peak current(for 1sec.)	l _p	A _{rms}	102	
Forque constant	Kt	Nm/A _{rms}	4.68	250 30
Electrical time constant	T _e	ms	7.2	- 25
Resistance (line to line at 25°C)	R ₂₅	Ω	0.6	200
nductance (line to line)	Ld / Lq	mH	4.3 / 6.32	- 20
Number of poles	2p		22	150
Back emf constant (line to line)	K _v	V _{rms} /rad/s	2.7	- 15
Motor constant (at 25°C)	, K _m	Nm/√W	4.92	100
Thermal resistance	R _{th}	K/W	0.07	- 10
	u1		PTC	50
Thermal sensor			SNM100+SNM130+Pt1000	- 5
Max. DC BUS		V _{DC}	750	
nertia of rotor	J	kgm ²	0.0146	0 1000 2000 3000 4000 5000 6000
Thermal time constant	T _{th}	s	96	Speed(rpm
Max. continuous power dissipation	Pc	W	2122	Tp Peak torque
Max. peak power dissipation	Pp	W	13265	
Max. speed(at 600VDC)		rpm	5450	Continuous torque with
Based speed(at 600VDC)		rpm	1215	water cooling
Rated speed(at 600VDC)		rpm	5450	
Mech	anical sp	ecification	S	Tc_fw Continuous torque with water cooling and field weakening
	Symbol	Unit	Field weakening &	
Mass of rotor	M _r	kg	Water cooling 7.43	Power Power @ Tc_fw
Mass of stator	Ms	kg	15	
Height of stator	Hs	mm	150	
Height of rotor	H _R	mm	121	
Length of rotor centring fit	H	mm	20	
Water temperture difference for Pc		ĸ	5	
Vinimum water flow	q	l/min	6.1	
Max. pressure drop	ч ∆р	bar	1	
	-p	Dai	1	Thermal sensor
				merman sensor
	H.	The	¢5 H8 x9DP rmal cable PCD 185 (Both sides)	White Brown Green Red Blue Yellov
12.5	30		X X	
	-	<u>9 max.</u>	30° 67	+
		4		
		ĭ		
(8)	9m	in.	Lim L	
610 00 00 00 00 00 00 00 00 00 00 00 00 0	<u> </u>	\$20H8 \$86g8		
<u>Ф119</u> Ф621	н.	Ø5		SNM130 SNM100
			le le de X	100
General tolerance mm				//·/
Nominal Tolerance			Re R	12-M6x1.0Px12DF Motor wire table
$\sim 6 \pm 0.1$			a a	PCD 74 Color or wire no. Signal
$\frac{2}{30} = \frac{6}{120} = \frac{40.2}{\pm 0.3}$	Seal (O-ring	a) position	16	
> 120 ~ 300 ±0.4		97 POSILION		D 185 (Both sides) V/L2 PH V
> 600 ~ 1200 ±0.8 Sect	tion X-X		X	W/L3 PH W PH V
> 1200 ~ 2400 ±1.0 > 2400 ±1.5				Green/Yellow GND
Except dimensions, all the specifications in the table are in ±10% of tolerance Version: 2.00				
This drawing is only for referen	rawing. Date: 2020/10/23			
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