



Customer : Project Name : Project No. : Revision No. :

SPECIFICATION for INDUCTION MOTOR



0		For Bidding			
No.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY



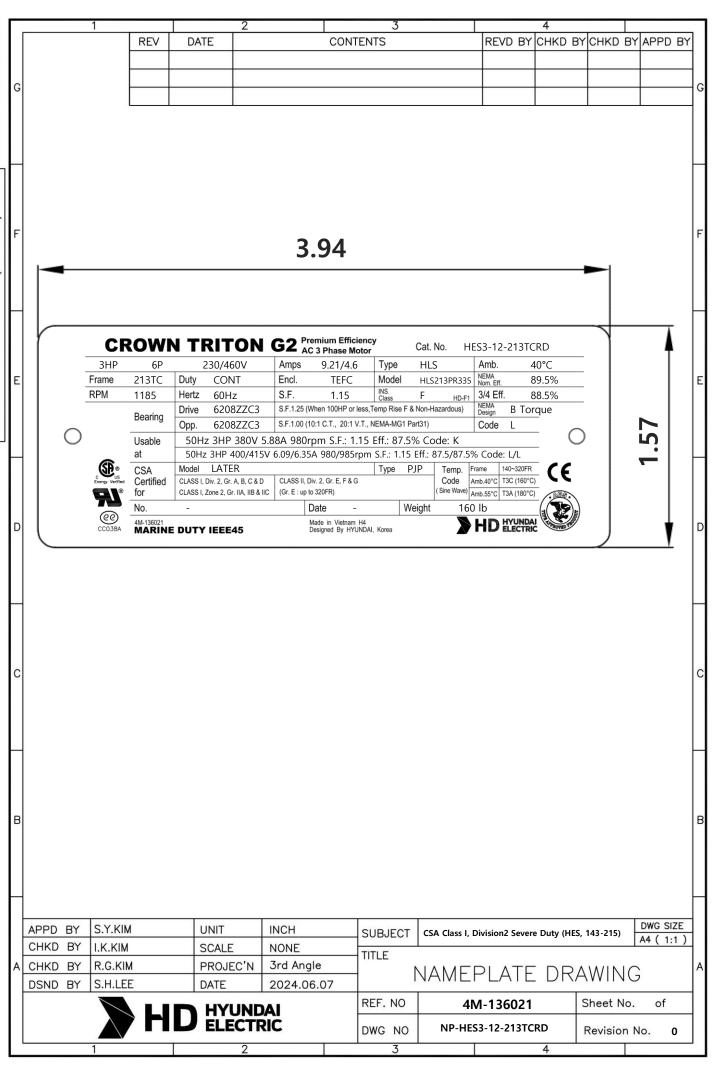
AC INDUCTION MOTOR DATA SHEET

			1								
Catalog No		HES3-12	2-213TCRD	Item				Rev. No]	
Project Na		L		Proje	ect No.		_	Quantit	•	sets	
	SENERAL SI		ATION					MANCE DAT			
	Frame Size 213TC			Rated Outp		2.2 kW 3 HP					
Type PJP		Number of		6							
Enclosure(Protection) Totally Enclosed / IP55 Method of Cooling IC411(FC)		<u>, </u>	Rotor Type	· · · · · · · · · · · · · · · · · · ·							
Method of Cooling		IC411(FC)			Starting M		D.O.L			* * *	
Rated Frequency		60 Hz			Rated Volt		575 V	460 V	230	V	
Number of Phases Insulation Class		3 F			-1 ⊢	Full Load	3.68 A 770 %	4.60 A 770 %	9.21	A	
		-					Locked-rotor**	770 %	770 %	770	%
Temp. Rise at full load (by resistance method)		Efficiency 50% Load 86.5 %									
at 1.0 S.F		80 deg. C ☐ Indoor ☐ Outdoor			-	75% Load					
Motor Location						-	100% Load	89.5			
Altitude Relative Humidity		Less than 1,000 meter Less than 80 %			Power Fact		69.5	70			
Ambient T				7 (Mov.)		Tower raci	50% Load	0.520			
Duty Type	cmp.	deg. C (Max.) Continuous (S1)			+	75% Load	0.620				
Service Fac	ctor	1.15	Jus (51)			 	100% Load	0.670			
Mounting	ctor	B5			Speed at Fi	eed at Full Load 1185 r.p.m					
Wiounting	Type	Anti-Frio				Torque	III Loud	1103	1.p.m		
Bearing	DE/N-DE		C3 / 6208ZZC3			-	Full Load	13.1	lh ft		
Dearing	Lubricant		Polyrex-EM)	<u>-</u>			Locked-rotor**	180			
External T		Not appl				_	Breakdown**	250			
Coupling N		✓ Direc		belt		Moment of					
Shaft Exter		Single				-	Load(Max.)	55.860	lb.ft2		
Terminal	Main	Cast Iron	 1			_	Motor	0.949	lb.ft2		
Box	Aux.	No				Sound Pres	sure Level (No	-load & mean v	value at 1m fro	m motor)	
	Location	Refer to	Outline Drawin	ng		57 dB(A)					
Application	n			Vibration 3.8 mm/sec (peak)							
Area classi		Hazardous			Permissible number of Cold 3 times						
Type of Ex	-Protection	Class I&II, Division 2			consecutive	e starts	Hot 2	times			
Applicable	Standard	NEMA MG1, CSA C390		Paint	Munsell No.	4.0PB5.4/5.5	(VL-451)				
ACCESSO	ORIES					SUBMITTAL DRAWING					
					Outline Dimension Drawing \ Motor Weight						
ı							D.7	LM-T2213C	SDI W22	1.60 11	
							B5	LWI-12213C	JFL V Z J	160 lb.	
								LIVI-12213C	JFL V Z3	160 16.	
								LWI-12213C	JFLV23	160 16.	
							-	LIVI-12213C	JFLV23	160 lb.	
						REMARK				160 lb.	
						1. Premi	um efficiency a	ccording to NE	SMA MG1		
						1. Premi	um efficiency a er Duty @ 1.0 S	ccording to NE Service Factor &	SMA MG1		
						1. Premi 2. Inverte 10:1	um efficiency a er Duty @ 1.0 S VT (20:1 VT a	ccording to NE Service Factor &	SMA MG1		
						1. Premii 2. Inverto 10:1 10:1	um efficiency a er Duty @ 1.0 S VT (20:1 VT a CT	ccording to NE Service Factor & t 50% load)	MA MG1 & F Temperatu	ıre rise	
						1. Premin 2. Inverto 10:1 10:1 CHP	um efficiency a er Duty @ 1.0 S VT (20:1 VT a CT up to 1.5 times	ccording to NE Service Factor & t 50% load)	MA MG1 & F Temperatu	ıre rise	
	ADDEC					1. Premin 2. Inverto 10:1 10:1 CHP 3. CSA (um efficiency a er Duty @ 1.0 S VT (20:1 VT a CT up to 1.5 times Certification	ccording to NE Service Factor & t 50% load)	EMA MG1 & F Temperatu EMA MG1 Pa	ıre rise	
SPARE PA	ARTS					1. Premii 2. Inverte 10:1 10:1 CHP 3. CSA C Class	um efficiency a er Duty @ 1.0 S VT (20:1 VT a CT up to 1.5 times Certification s I, Division 2, 0	ccording to NE Service Factor & t 50% load) s base speed, N Group A, B, C	EMA MG1 & F Temperatu EMA MG1 Pa & D	rt31	
SPARE PA	ARTS					1. Premii 2. Inverte 10:1 10:1 CHP 3. CSA C Class	um efficiency a er Duty @ 1.0 S VT (20:1 VT a CT up to 1.5 times Certification s I, Division 2, 0 s II, Division 2	ccording to NE Service Factor & t 50% load) s base speed, N Group A, B, C Group E, F & C	EMA MG1 & F Temperatu EMA MG1 Pa & D G (Group E : u	rt31 p to 320Fr.)	
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SPARE PA	ARTS					1. Premin 2. Invertor 10:1 10:1 CHP 3. CSA C Class Class 4. Servic under 5. Servic	um efficiency aver Duty @ 1.0 S VT (20:1 VT aver CT) up to 1.5 times Certification as I, Division 2 of a II, Division 2 of a Factor 1.15 are the condition of a Factor 1.25 is	ccording to NE Service Factor & t 50% load) s base speed, N Group A, B, C Group E, F & C nd Temperature f sine wave pow	EMA MG1 & F Temperatu EMA MG1 Pa & D G (Group E : u e rise B are app wer. motors of 100F	rt31 p to 320Fr.)	
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SPARE PA	ARTS					1. Premin 2. Invertor 10:1 10:1 CHP 3. CSA C Class Class 4. Servic under 5. Servic	um efficiency aver Duty @ 1.0 S VT (20:1 VT a CT up to 1.5 times Certification s I, Division 2 o s II, Division 2 o e Factor 1.15 ar the condition of e Factor 1.25 is emperature rise	ccording to NE Service Factor & t 50% load) s base speed, N Group A, B, C Group E, F & C nd Temperature f sine wave pow	EMA MG1 & F Temperatu EMA MG1 Pa & D G (Group E : u e rise B are app wer. motors of 100F	rt31 p to 320Fr.))

Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.

Inspection and performance test shall be done according to maker standard, if not mentioned.

- * In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.
- ** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.





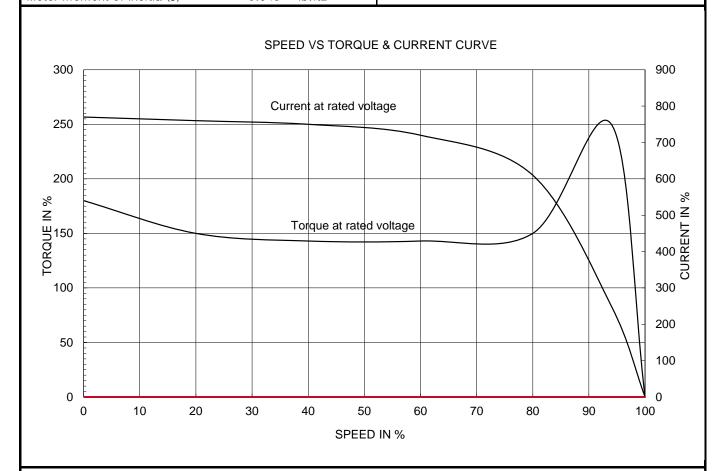
PERFORMANCE CURVE

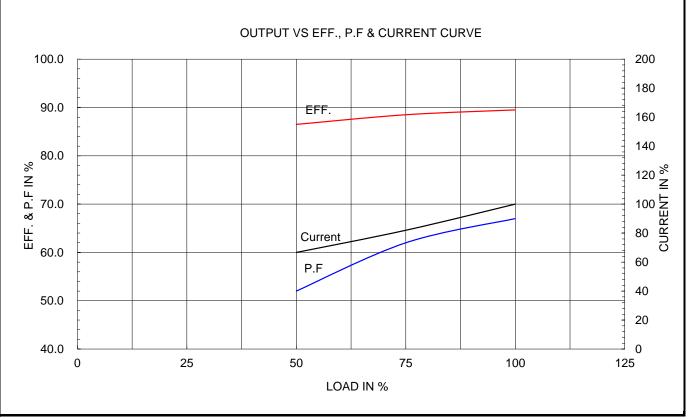
CURVE NO.

PC-HES3-12-213TCRD

Type:	PJP		
Full Load Torque:	13.1	lb.ft	
Load moment of Inertia (J):	55.860	lb.ft2	
Motor moment of Inertia (၂):	0.949	lb.ft2	

2.2kW 3HP	6 P	60	Hz
Speed at Full Load:		1185	RPM
Rated Voltage	575V	460V	230V
Full Load Current	3.7A	4.6A	9.2A





RM-P251-133 A4(210mm x 297mm)

