



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

Catalog No		HES7.5-18-213	T	Item No.			Rev. N	o. []	
Project Name				Project No.			Quanti	y	sets	
GENERAL SPECIFICATION				PERFORMANCE DATA						
Frame Size		213T		Rated Output		5.5	kW	7.5 HP		
Type		PJP			Number of	Poles		4		
Enclosure(Protection)	Totally Enclose	d /	IP55	Rotor Type		Squirrel Cage	;		
Method of	Cooling	IC411(FC)		Starting Method* D.		D.O.L				
Rated Freq	luency	60 Hz		Rated Vol		575 V	460 V	230	V	
Number of		3			Current	Full Load	7.82 A	9.78 A	19.55	A
Insulation	Class	F			Locked-rotor**	940 %	940 %	940	%	
Temp. Rise	e at full load (b	by resistance method)		Efficiency						
	1.0 S.F	80 deg. C		_ _	50% Load	88.7				
Motor Loca	ation	☐ Indoor ☐ Outdoor		_	75% Load	90.7	%			
Altitude		Less than 1,000 meter			100% Load	91.7	91.7 %			
Relative H		Less than 80 %		Power Factor(p.u)						
Ambient T		40 deg. C (Max.)		50% Load 0.620						
Duty Type		Continuous (S1	.)			75% Load	0.720			
Service Fac	ctor	1.15				100% Load	0.770			
Mounting		B3		Speed at Full Load		1775 r.p.m				
	Type	Anti-Friction			Torque					
Bearing	DE/N-DE	6208ZZC3 / 620				Full Load	21.8	lb.ft		
	Lubricant	Grease(Polyrex	-EM)		l L	Locked-rotor**	190			
External T		Not applicable			Breakdown**	250	%			
Coupling N		✓ Direct		Moment of Inertia (J)						
Shaft Exter	nsion	Single			_	Load(Max.)	46.042			
Terminal	Main	Cast Iron				Motor	0.570			
Box	Aux.	No		Sound Pressure Level (No-load & mean value at 1m from motor)						
	Location	Refer to Outline Drawing		62 dB(A)						
Application				Vibration			3.8 mm/sec (peak)			
Area classi		Hazardous		Permissible number of Cold 3 times						
	-Protection	Class I&II, Division 2		consecutiv			times			
Applicable		NEMA MG1, CSA C390		Paint	Munsell No.	4.0PB5.4/5.5	, ,			
ACCESSO	DRIES				SUBMITTAL DRAWING					
					Outline Di	mension Drawin		Motor Weigh		
						В3	LM-T22131	33PLV23	150 lb.	
					DELLAR	-				
					REMARK					
					1. Premium efficiency according to NEMA MG1					
					2. Inverter Duty @ 1.0 Service Factor & F Temperature rise					
					10:1 VT (20:1 VT at 50% load)					
					10:1 CT					
			CHP up to 1.5 times base speed, NEMA MG1 Part31 3. CSA Certification							
CDA DE DA DEC		Class I, Division 2, Group A, B, C & D								
SPARE PARTS		Class I, Division 2, Group A, B, C & D Class II, Division 2 Group E, F & G (Group E : up to 320Fr.)								
			4. Service Factor 1.15 and Temperature rise B are applicable							
		4. Service Factor 1.15 and Temperature rise B are applicable under the condition of sine wave power.								
					5. Service Factor 1.25 is applicable to motors of 100HP or less					
									111 01 1688	
			with temperature rise F & Non-Hazardous.							
			Date	DSND	CHKD	CHKD	APPD			
					2024-09-1	0 S.H. Lee	I.K. Kim	R.G. Kim	S.W. Ki	1111

[Note] Others not mentioned in this data sheet shall be in accordance with maker standard.

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.

DWG SIZE S.Y.KIM APPD BY UNIT INCH **SUBJECT** CSA Class I, Division2 Severe Duty (HES, 143-215) A4 (1:1) CHKD BY I.K.KIM **SCALE** NONE TITLE PROJEC'N 3rd Angle CHKD BY R.G.KIM NAMEPLATE DRAWING S.H.LEE DATE 2024.06.07 DSND BY REF. NO Sheet No. 4M-136021 of HYUNDAI ELECTRIC NP-HES7.5-18-213T DWG NO Revision No. 0 3 4

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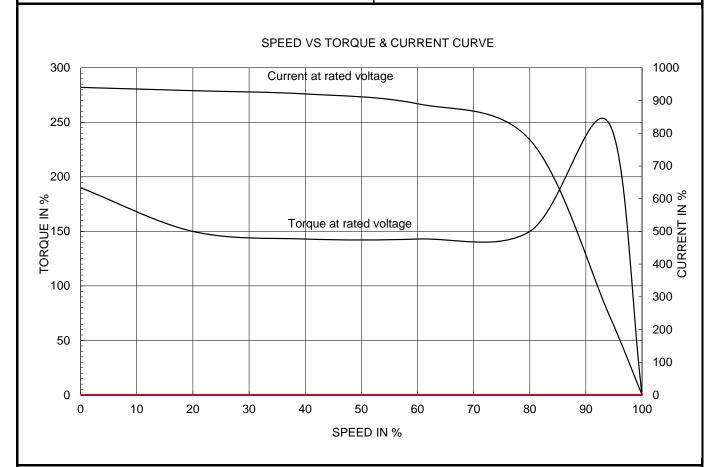
PERFORMANCE CURVE

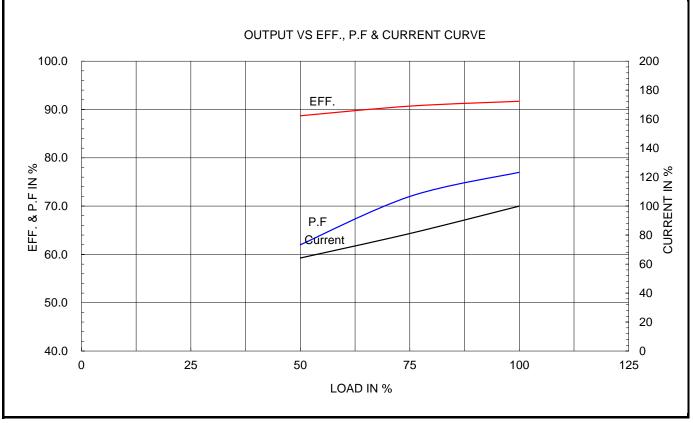
CURVE NO.

PC-HES7.5-18-213T

Type:	PJP		
Full Load Torque:	21.8	lb.ft	
Load moment of Inertia (J):	46.042	lb.ft2	
Motor moment of Inertia (J):	0.570	lb.ft2	

5.5kW 7.5HP 4	Р	60	Hz
Speed at Full Load:		1775	RPM
Rated Voltage	575V	460V	230V
Full Load Current	7.8A	9.8A	19.6A





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

