



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

Model No	or RFQ No.			Item No.			Rev. I	No. []	
Project Na	ime			Project No.			Quant	ity	sets	
GENERAL SPECIFICATION			PERFORMANCE DATA							
Frame Size	e	284TC			Rated Output		18.5	kW	25.0 HP	
Туре		PJP			Number o	f Poles		4		
Enclosure(Protection)		Totally Enclo	sed / IP55		Rotor Typ	e	Squirrel Cas	ge		
Method of	Cooling	IC411(FC)			Starting M		√D.O.L		<u>- </u>	
Rated Free		60 Hz			Rated Voltage		575 V			V
Number of		3			Full Load	24.5 A	30.6 A	61.3	Α	
Insulation	Class	✓F	В П	[Locked-rotor**	790 %			%
		(by resistance			Efficiency					
	1.0 S.F	80 deg. C		50% Load 90.6 %						
Motor Loc	ation	✓ Indoor ☐ Outdoor			75% Load	92.6	%			
Altitude		Less than 1000 meter			100% Load	93.6				
Relative H	Iumidity		80 %		Power Factor(p.u)					
Ambient 7				ſax.)	50% Load		0.660)		
Duty Type		Continuous (S				75% Load	0.760			
Service Fa		1.0	- /			100% Load	0.810			
Mounting		B35			Speed at Full Load			r.p.m		
3.248	Туре	Anti-Friction			Torque			T .		
Bearing	DE/N-DE	6310ZC3	3 / 6	310ZC3		Full Load	73.4	lb.ft		
zeming	Lubricant	Grease	, -		I	Locked-rotor**	170			
External T		Not applicable			Breakdown**	220				
Coupling 1		☑ Direct	V-Belt			f Inertia (J)				
Shaft Exte		☑ Single	Double		-	Load(Max.)	141.396	lb.ft2		
	Main	Aluminun				Motor		lb.ft2		
Box	Aux.	Yes V No		Sound Pressure Level (No-load & mean value at 1m from motor)						
BOX	Location	Refer to Outline Drawing		72 dB(A)						
Applicatio		Refer to Guillie Brawing		Vibration 3.8 mm/sec (peak)			(k)			
Area class		Hazardous		Permissible number of Cold 3 times		<u>.</u>				
Type of Ex-Protection		Class I & II, Division 2			secutive starts Hot 2 times					
Applicable		NEMA MG1, CSA C390								
ACCESSO		T VEIVE T IVEO	, 0011 0090		SUBMITTAL DRAWING					
TICCLOS	<u> </u>				Outline D	imension Draw)
						B35	LM-T2284		375 lb.	<u>, </u>
							21/1 12201	0.12.20		
					REMARK					
					Premium efficiency according to NEMA MG1					
					2. Inverter Duty @ 1.0 Service Factor & F Temperature rise					
					1 VT (20:1 VT		_	71414110 1150		
			10:1 CT							
		CHP up to 1.5 times base speed								
			3. CSA Certification							
SPARE PARTS			Class I, Division 2, Group A, B, C & D							
or near miles			Class II, Division 2 Group E, F & G (Group E : up to 320Fr.)							
			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			22		
					with temperature rise F & Non-Hazardous.					
ŀ			************	omporature rist						
					Date	DSND	CHKD	CHKD	APPI)
					2023-11-1	3 I.S. Ko	S.H. Lee	Y.K. Kim	S.Y. K	Ш

[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.



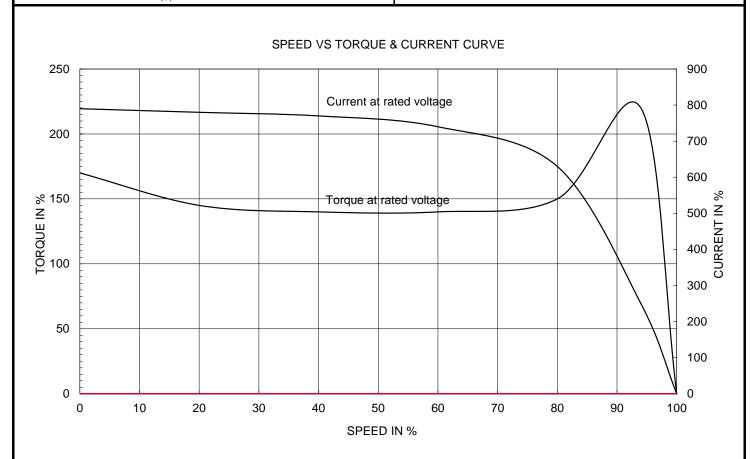
PERFORMANCE CURVE

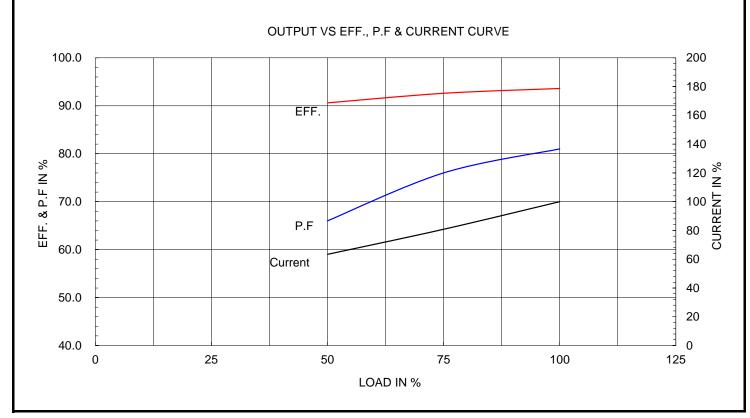
CURVE NO.

P-25HP-4P

Type:	PJP		
Full Load Torque:	73.4	lb.ft	
Load moment of Inertia (J):	_	lb.ft2	
Motor moment of Inertia (J):	3.940	lb.ft2	

18.5 kW 25 HP 4	4 P		Hz
Speed at Full Load:		1775	RPM
Rated Voltage	575V	460V	230V
Full Load Current	24.5A	30.6A	61.3A





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



본 도면은 HD현대일렉트릭(주) 재산이며 | 허가없이 복사할 수 없음 (취급유의)



