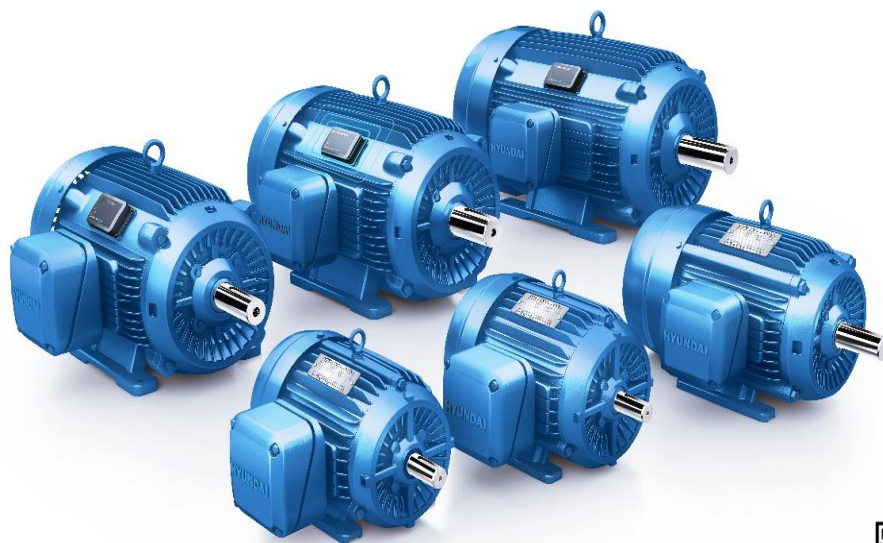


Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

AC INDUCTION MOTOR DATA SHEET

IEEE841 TYPE

Catalog No.	IEEEV25-12-324/6TC		Item No.			Rev. No.	[]	
Project Name			Project No.			Quantity	sets	
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame Size	324TC		Rated Output	18.5 kW		25 HP		
Type	PJP		Number of Poles	6				
Enclosure(Protection)	Totally Enclosed / IP55		Rotor Type	Squirrel Cage				
Method of Cooling	IC411(FC)		Starting Method*	D.O.L				
Rated Frequency	60 Hz		Rated Voltage	575 V	460 V	230 V		
Number of Phases	3		Current	Full Load	25.0 A	31.2 A	62.4 A	
Insulation Class	F			Locked-rotor**	720 %	720 %	720 %	
Temp. Rise at full load (by resistance method)			Efficiency					
	at 1.0 S.F	80 deg. C	50% Load 90.0 %					
Motor Location	☐ Indoor ☐ Outdoor		75% Load 92.0 %					
Altitude	Less than 1,000 meter		100% Load 93.0 %					
Relative Humidity	Less than 80 %		Power Factor(p.u)					
Ambient Temp.	40 deg. C (Max.)		50% Load 0.650					
Duty Type	Continuous (S1)		75% Load 0.750					
Service Factor	1.15		100% Load 0.800					
Mounting	B35		Speed at Full Load		1175 r.p.m			
Bearing	Type	Anti-Friction	Torque					
	DE/N-DE	6313ZC3 / 6212ZC3	Full Load 110.92 lb.ft					
	Lubricant	Grease(Polyrex-EM)	Locked-rotor** 170 %					
External Thrust	Not applicable		Breakdown** 210 %					
Coupling Method	☒ Direct ☐ V-belt		Moment of Inertia (J)					
Shaft Extension	Single		Load(Max.) 389.183 lb.ft2					
Terminal	Main	Cast Iron	Motor 8.094 lb.ft2					
Box	Aux.	No	Sound Pressure Level (No-load & mean value at 1m from motor)					
	Location	Refer to Outline Drawing	68 dB(A)					
Application			Vibration 2.03 mm/s (peak)					
Area classification	Hazardous		Permissible number of Cold 3 times					
Type of Ex-Protection	Class I&II, Division 2		consecutive starts Hot 2 times					
Applicable Standard	IEEE841, NEMA MG1, CSA C390		Paint	Munsell No.	7.5BG6/1.5			
ACCESSORIES			SUBMITTAL DRAWING					
			Outline Dimension Drawing \ Motor Weight(Approx.)					
			B35		LM-I2326C4PLV25	570 lb.		
SPARE PARTS			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 (1 hour duty, 4:1 continuous)					
			-. CHP up to 1.5 times base speed, NEMA MG1 Part31					
			3. CSA Certification					
			-. 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 under the condition of sine wave power.					
			5. Service Factor 1.25 is applicable to motors of 100HP or less with temperature rise F & Non-Hazardous.					
			6. Temp. code : T3C(160°C) at sine wave					
			Date	DSND	CHKD	CHKD	APPD	
			2025-09-19	S.H. LEE	I.K. KIM	R.G. KIM	S.W. KIM	

[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.

MAIN NAMEPLATE

4.72

25HP		6P		460V		Cat. No. IEEEV25-12-324/6TC	
Model HLS324PR338V		Type HLS		Duty CONT		Amps 31.2A	
Frame 324TC		Encl. TEFC		Code J		Hertz 60Hz	
Bearing		Drive 6313ZC3		S.F. 1.15		RPM 1175	
Opp. 6212ZC3		S.F. 1.25 (When 100HP or less, Temp Rise F & Non-Hazardous)		3/4 Eff. 92.0%		NEMA Design B Torque	
Usable at		50Hz 25HP 380V 41.4A 980rpm S.F.: 1.15 Eff.: 91.7% Code: H					
		50Hz 25HP 400/415V 39.9/39.0A 980/985rpm S.F.: 1.15 Eff.: 91.7/91.7% Code: J/K					
CSA Certified for		Model -		Type PJP		Temp. Code	
CLASS I, Div. 2, Gr. A, B, C & D		CLASS II, Div. 2 Gr. E, F & G (Gr. E : Up to 320FR)		Frame 140~320FR		360~400FR	
CLASS I, Zone 2, Gr. IIA, IIB, & IIC				Amb. 40°C		T3C (160°C)	
				Amb. 55°C		T3A (180°C)	
No. -		Date -		Weight 570 lb			
MARINE DUTY IEEE45		4M-138416		Made in Vietnam H4		Designed By HYUNDAI, Korea	
IEEE Std 841-2021				HD HYUNDAI ELECTRIC			

2.36

WIRING DIAGRAM

D.O.L (INVERTER & SOFT STARTER)  WARNING IMPROPER INSTALLATION, CONNECTION, OPERATION, GROUNDING OF THIS MOTOR MAY CAUSE SERIOUS INJURY TO PERSONNEL OR MOTOR FAILURE. READ INSTRUCTIONS CAREFULLY. GROUNDING SHOULD BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL SOUND PRACTICES. T1 T2 T3 L1 L2 L3 KEEP FINGERS AND FOREIGN OBJECTS AWAY FROM OPENINGS AND ROTATING PARTS DISCONNECT ALL POWER SOURCES BEFORE TOUCHING INTERNAL PARTS TO AVOID ELECTRICAL SHOCK. 4M-128796	WYE-DELTA (Y-D) N/A
---	---

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 IEEE841 (SSEN, 254-326)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE	TITLE		A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	NAMEPLATE DRAWING		
DSND BY	S.H.LEE	DATE	2024.06.07	REF. NO	4M-138416 / 4M-128796	Sheet No. of
HD HYUNDAI ELECTRIC				DWG NO	NP-IEEEV25-12-324/6TC	Revision No. 0

Type : PJP

18.5kW 25HP

6 P

60 Hz

Full Load Torque : 110.92 lb.ft

Speed at Full Load : 1175 RPM

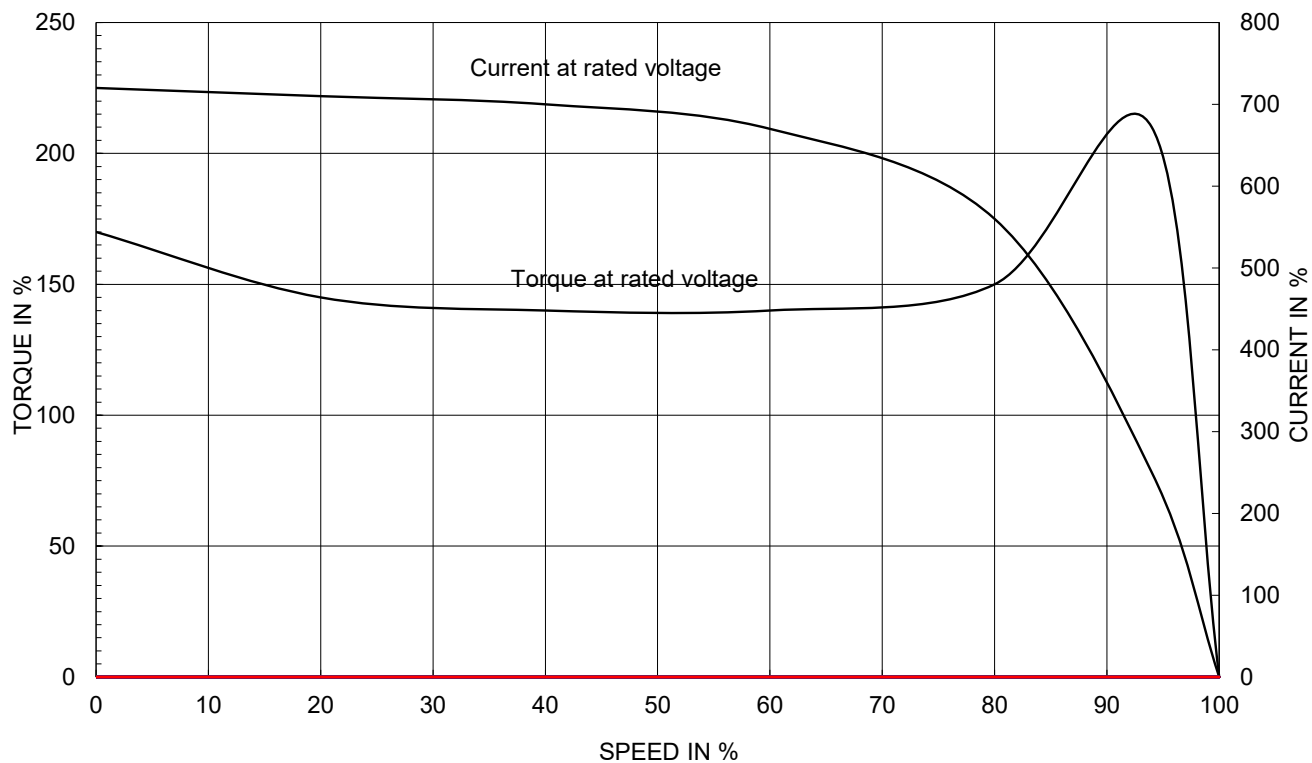
Load moment of Inertia (J) : 389.183 lb.ft2

Rated Voltage	575V	460V	230V
---------------	------	------	------

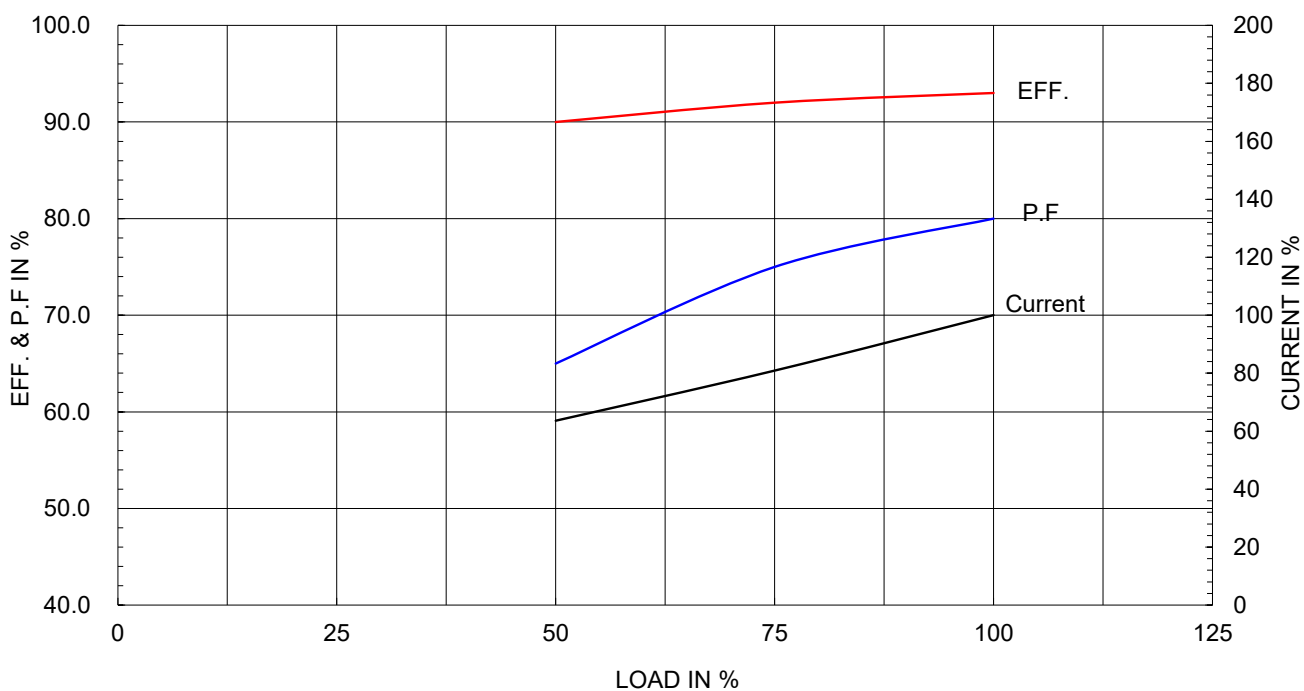
Motor moment of Inertia (J) : 8.094 lb.ft2

Full Load Current	25.0A	31.2A	62.4A
-------------------	-------	-------	-------

SPEED VS TORQUE & CURRENT CURVE

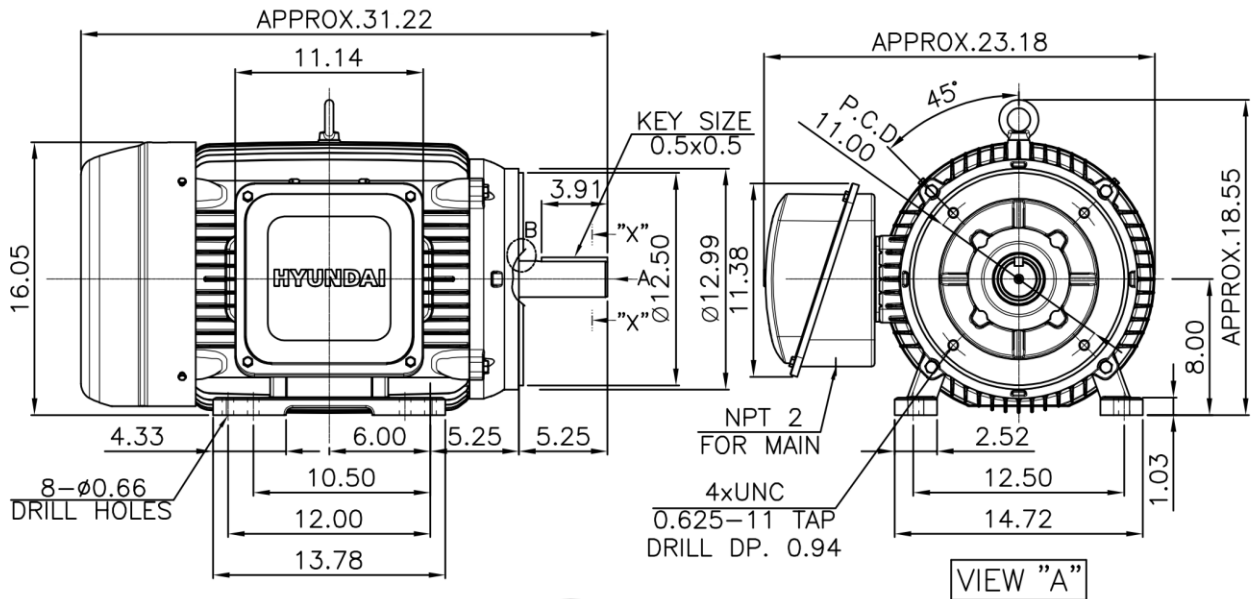


OUTPUT VS EFF., P.F & CURRENT CURVE



1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		

IEEE841



NOTE

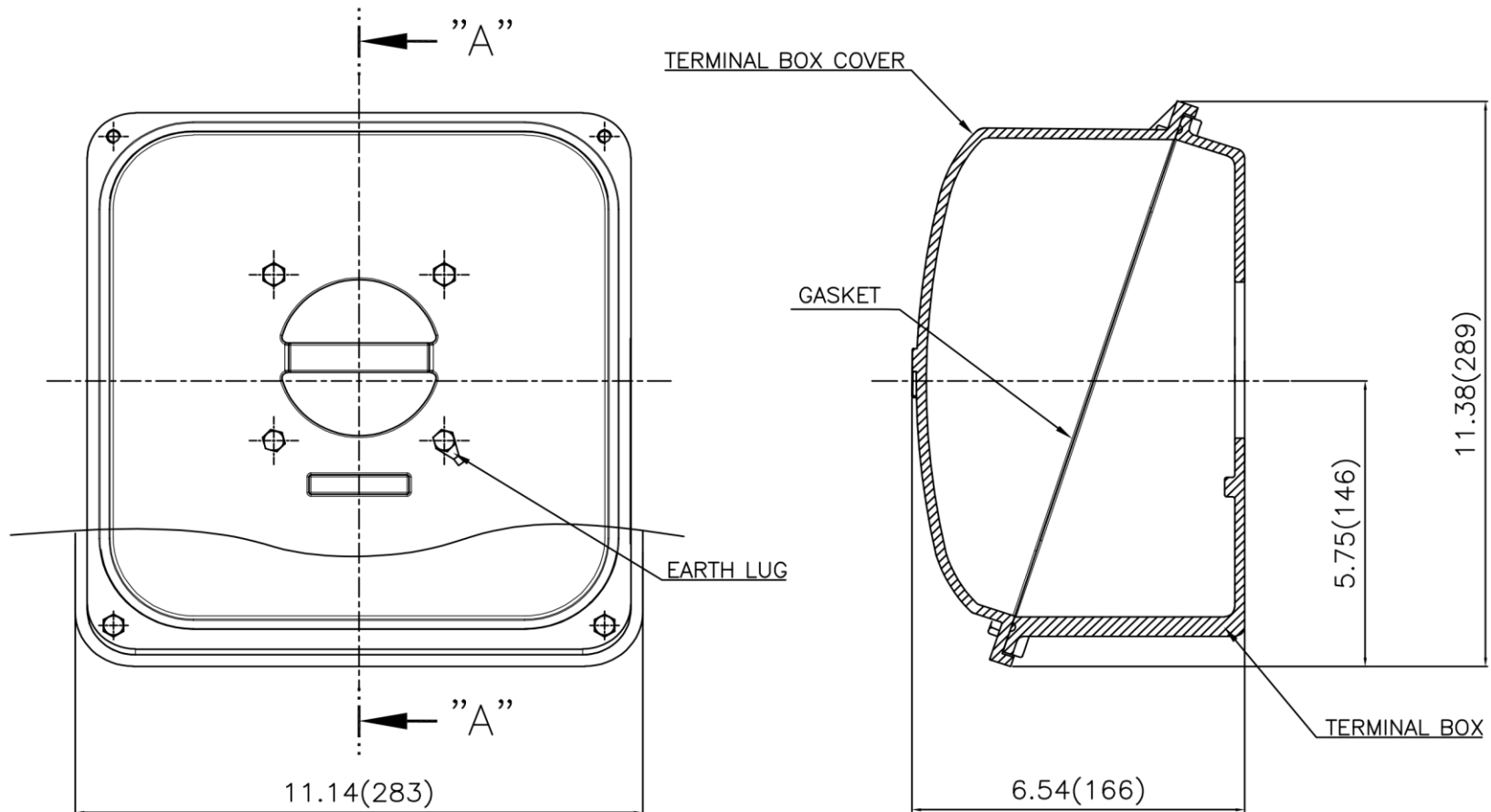
[TOLERANCE]

1. CENTER HEIGHT : +0.00inch - 0.03inch
2. SHAFT DIAMETER : +0.000inch - 0.001inch
3. KEYWAY DEPTH : +0.000inch - 0.015inch

APPD BY	S.Y.KIM	UNIT	inch	SUBJECT	NEMA 324/6TC (Dual hole)	DWG SIZE
CHKD BY	R.G.KIM	SCALE	1/11	TITLE	OUTLINE	A4 (1:11)
CHKD BY		PROJEC'N	3rd Angle			
DSND BY	주유림	DATE	2021-04-29	REF. NO	.	Sheet No. of
				DWG NO	LM-I2326C4PLV25	Revision No. 0

Cls. I&II, Div. 2

IEEE 841



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						
2						
3						
4						

일반가공공차		일반계관공차	
1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR. 320 (CAST IRON)	DWG SIZE	
CHKD BY		SCALE	1/2.5	TITLE	TERMINAL BOX ASS'Y		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No. of	
DSND BY	네슬의	DATE	2023-10-19	DWG NO	3M-248459	Revision No. 0	