

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.	IEEE30-12-326T	Item No.		Rev. No.	[ ]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION		PERFORMANCE DATA				
Frame Size	326T	Rated Output	22 kW		30 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	29.7 A	37.1 A	
Insulation Class	F		Locked-rotor**	830 %	830 %	830 %
Temp. Rise at full load (by resistance method)		Efficiency				
at 1.0 S.F	80 deg. C	50% Load		90.0 %		
Motor Location	<input type="checkbox"/> Indoor <input type="checkbox"/> 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	B3	Speed at Full Load		1175 r.p.m		
Bearing	Type	Anti-Friction				
	DE/N-DE	6313ZC3 / 6212ZC3				
	Lubricant	Grease(Polyrex-EM)				
External Thrust	Not applicable					
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-belt	Torque				
Shaft Extension	Single	Full Load		131.9 lb.ft		
Terminal Box	Main	Locked-rotor**		170 %		
	Aux.	Breakdown**		210 %		
Location	Refer to Outline Drawing	Moment of Inertia (J)				
Application		Load(Max.)		442.185 lb.ft2		
Area classification	Hazardous	Motor		10.443 lb.ft2		
Type of Ex-Protection	Class I&II, Division 2	Sound Pressure Level (No-load & mean value at 1m from motor)				
Applicable Standard	IEEE841, NEMA MG1, CSA C390			70 dB(A)		
<b>ACCESSORIES</b>		<b>SUBMITTAL DRAWING</b>				
		Outline Dimension Drawing		Motor Weight(Approx.)		
		B3	LM-I1326B3PL001	560 lb.		
		<b>REMARK</b>				
		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 -. 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.				
<b>SPARE PARTS</b>		Date	DSND	CHKD	CHKD	APPD
		2024-07-13	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.

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REV	DATE	CONTENTS	REVD BY   CHKD BY   CHKD BY   APPD BY

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**CROWN TRITON**  
Premium Efficiency AC 3 Phase Motor

30HP	6P	460V	Cat. No.	IEEE30-12-326T			
Model	HLS326SR33		INS. Class	F	HD-F1	Amps	37.1
Type	HLS	Duty	CONT	Code	K	Amb.	40°C
Frame	326T	Encl.	TEFC	S.F.	1.15	RPM	1175
Bearing	Drive	6313ZC3		S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)		3/4 Eff.	92%
	Opp.	6212ZC3				NEMA Design	B Torque
Usable at	50Hz 25HP 380V 42.8A 985rpm S.F.: 1.0 Eff.: 90.4% Code: K						
	50Hz 25HP 400/415V 41.8/41.4A 985/985rpm S.F.: 1.0 Eff.: 90.4/90.4% Code: L/L						
CSA Certified for	Model	LATER		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)		(sine wave)	Frame	140~320FR   360~400FR   440FR
	CLASS I, Zone 2, Gr. IIA, IIB, & IIC					Amb. 40°C	T3C (160°C)   T3B (165°C)   T3A (180°C)
					Amb. 55°C	T3A (180°C)   T3A (180°C)   T3 (200°C)	
No.	-		Date	-		Weight	560 lb

**IEEE Std 841-2021**    **MARINE DUTY IEEE45**

4M-135701                      Made in Korea H1

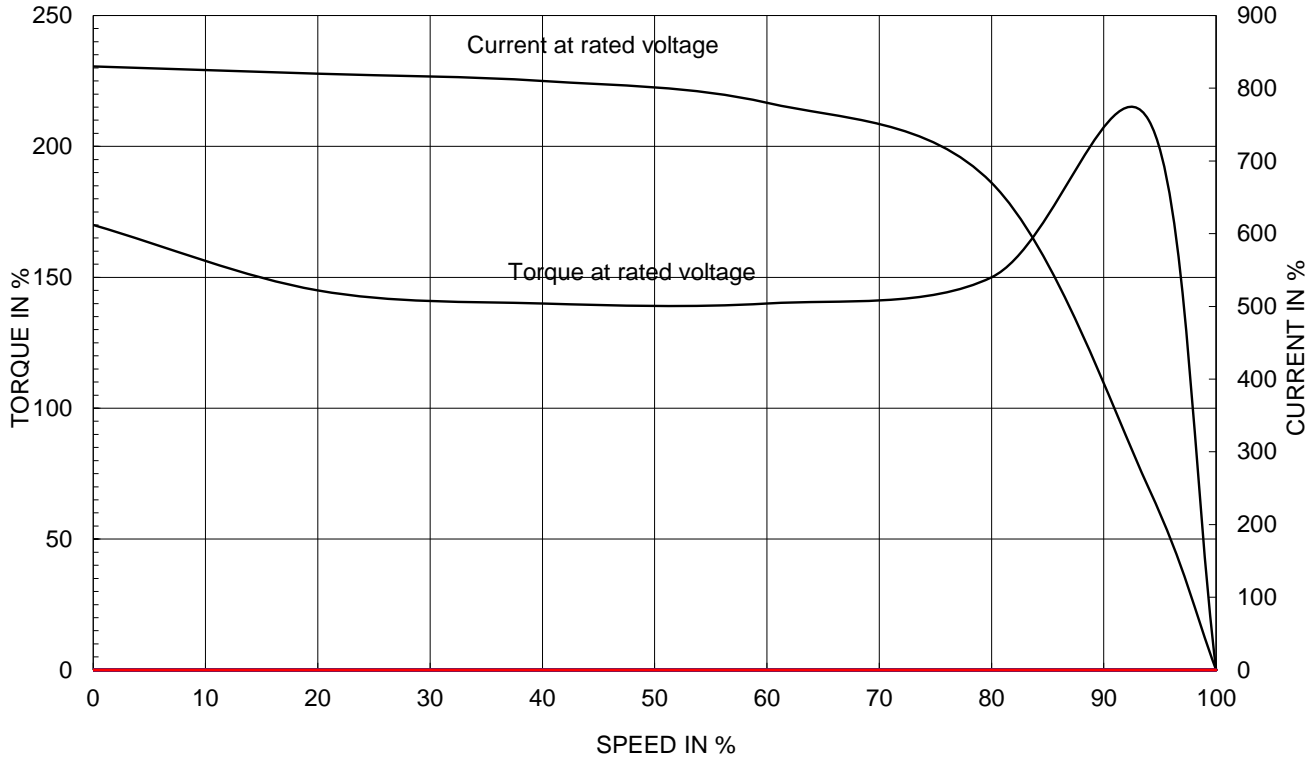
2.36

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 IEEE841 (HL)	DWG SIZE	A4 ( 1:1 )
CHKD BY	I.K.KIM	SCALE	NONE				
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	TITLE <b>NAMEPLATE DRAWING</b>			
DSND BY	S.H.LEE	DATE	2024.06.07				
				REF. NO	<b>4M-135701</b>	Sheet No. of	
				DWG NO	<b>NP-IEEE30-12-326T</b>	Revision No. <b>0</b>	

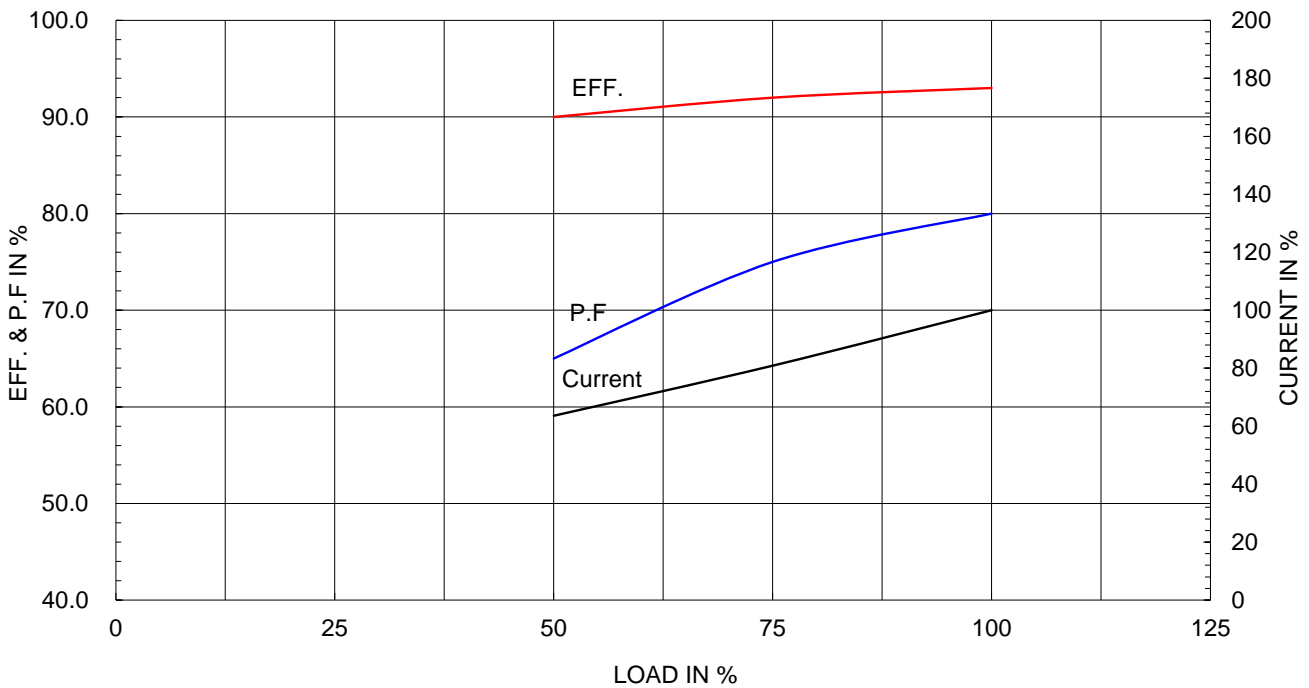
Type :	PJP	
Full Load Torque :	131.9	lb.ft
Load moment of Inertia (J) :	442.185	lb.ft <sup>2</sup>
Motor moment of Inertia (J) :	10.443	lb.ft <sup>2</sup>

22kW	30HP	6 P	60 Hz
Speed at Full Load :			1175 RPM
Rated Voltage	575V	460V	230V
Full Load Current	29.7A	37.1A	74.2A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

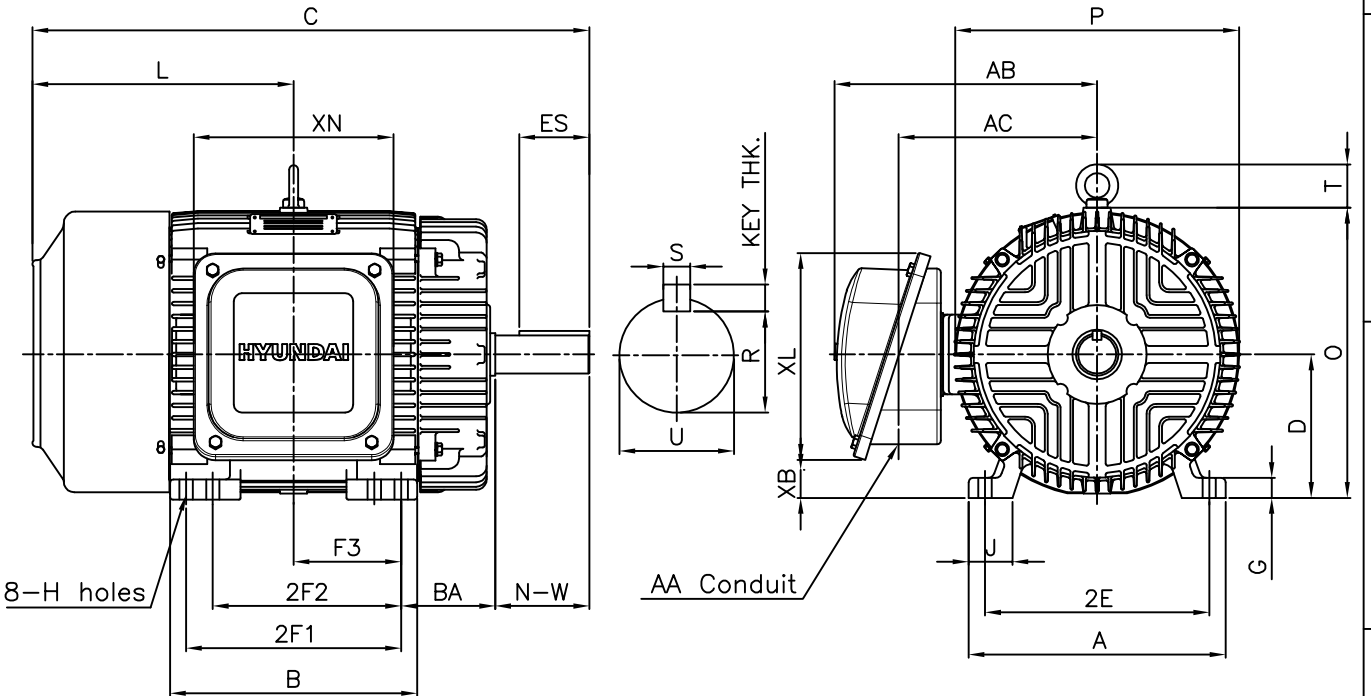


본 도면은 HD현대일렉트릭(주) 재산이며 허가없이 복사할 수 없음 (취급유의)

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▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		

**IEEE841**



DIMENSIONS

Unit : inch

MOUNTING									CONDUIT BOX						APPROX. WGT.(LB)	
A	B	2E	2F1 <sup>5)</sup>	2F2 <sup>4)</sup>	F3	G	J	H	AA	AB	AC	XA	XL	XN	324T	326T
14.33	13.78	12.50	12.00	10.50	6.00	1.11	2.36	0.66	2.00	16.31	11.41	2.13	11.38	11.14	550	560

OVERALL								SHAFT			KEY THK.	BEARING		
BA	C	D	L	O	P	T	U	N-W	KEYWAY			DRIVE END	OPP. DRIVE END	
									R	ES	S			
5.25	31.46	8.00	15.96	16.19	15.84	2.41	2.125	5.25	1.845	3.91	0.500	0.500	6313ZC3	6211ZC3

**NOTE**

- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.001inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch
- 4.Location of holes for 324T frame
- 5.Location of holes for 326T frame

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	NEMA 324T/326T	DWG SIZE	A4 ( 1:1 )	
CHKD BY	R.G.KIM	SCALE	NONE	TITLE	<b>OUTLINE</b>	REF. NO	350A8112AA	
CHKD BY	Y.H.BAE	PROJEC'N	3각법(3rd Angle)	DWG NO		LM-I1326B3PL001	Sheet No.	of
DSND BY	H.K.LEE	DATE	2021-04-30				Revision No.	0



# Cls. I&II, Div. 2 IEEE 841



SEC. "A" - "A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR. 250-280 (CAST IRON)	DWG SIZE	
CHKD BY		SCALE	1/2	TITLE	TERMINAL BOX ASS'Y		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	DATE	2023-10-19		
DSND BY	배승희						
REF. NO		Sheet No.	of				
DWG NO	3M-248458	Revision No.	0				

일반가공공차		일반제관공차	
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



REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
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