

Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

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AC INDUCTION MOTOR DATA SHEET

Catalog No.	HES30-12-324/6JP	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	326JP	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 %
Temp. Rise at full load (by resistance method)		Efficiency			
at 1.0 S.F	80 deg. C	50% Load			
Motor Location	☐ Indoor ☐ Outdoor	75% Load			
Altitude	Less than 1,000 meter	100% Load			
Relative Humidity	Less than 80 %	Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)	50% Load			
Duty Type	Continuous (S1)	75% Load			
Service Factor	1.15	100% Load			
Mounting	B35	Speed at Full Load			
Bearing	Type	Anti-Friction			
	DE/N-DE	6313ZC3 / 6212ZC3			
	Lubricant	Grease(Polyrex-EM)			
External Thrust	Not applicable	Torque			
Coupling Method	☒ Direct ☐ V-belt	Full Load			
Shaft Extension	Single	Locked-rotor**			
Terminal	Main	Breakdown**			
Box	Aux.	Moment of Inertia (J)			
	Location	Load(Max.)			
Application		Motor			
Area classification	Hazardous	Sound Pressure Level (No-load & mean value at 1m from motor)			
Type of Ex-Protection	Class I&II, Division 2	68 dB(A)			
Applicable Standard	NEMA MG1, CSA C390	Vibration			
		3.8 mm/s (peak)			
		Permissible number of			
		consecutive starts			
		Cold 3 times			
		Hot 2 times			
		Paint			
		Munsell No.			
		4.0PB5.4/5.5(VL-451)			
ACCESSORIES		SUBMITTAL DRAWING			
		Outline Dimension Drawing \ Motor Weight(Approx.)			
		B35 LM-T2326C4JLV25 575 lb.			
		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
		2025-09-19	S.H. LEE	I.K. KIM	R.G. KIM
					APPD
					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.

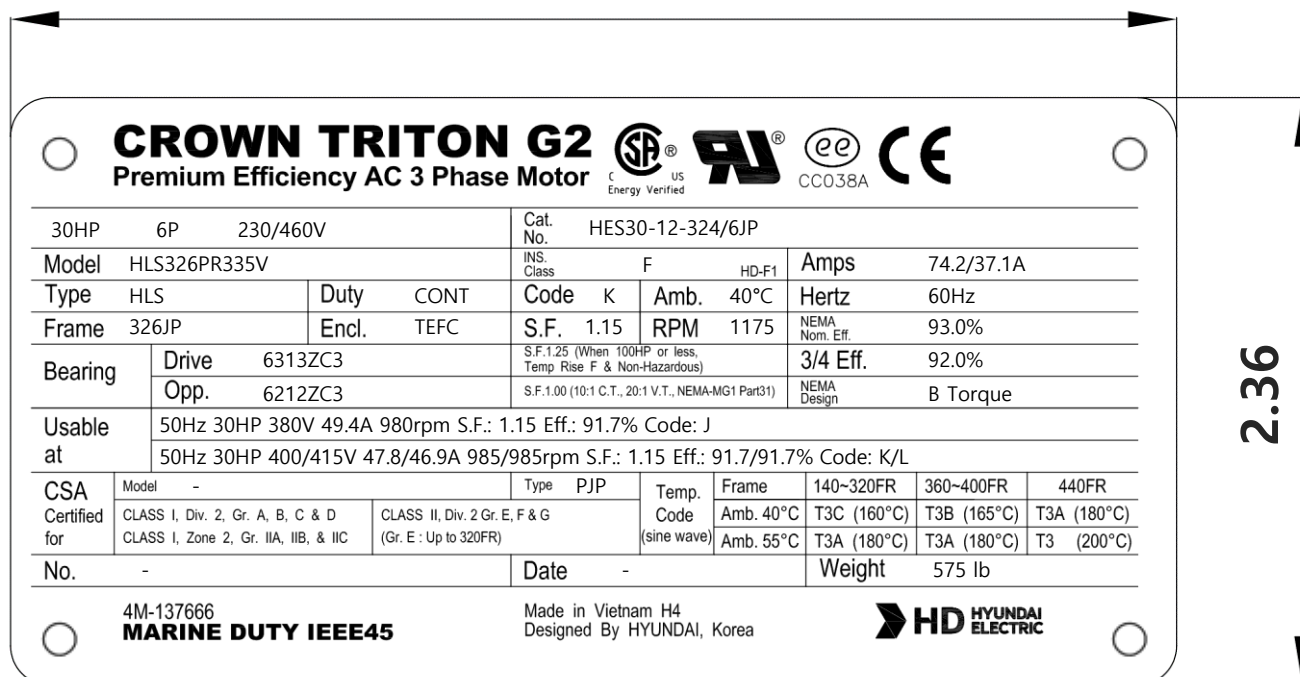
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.

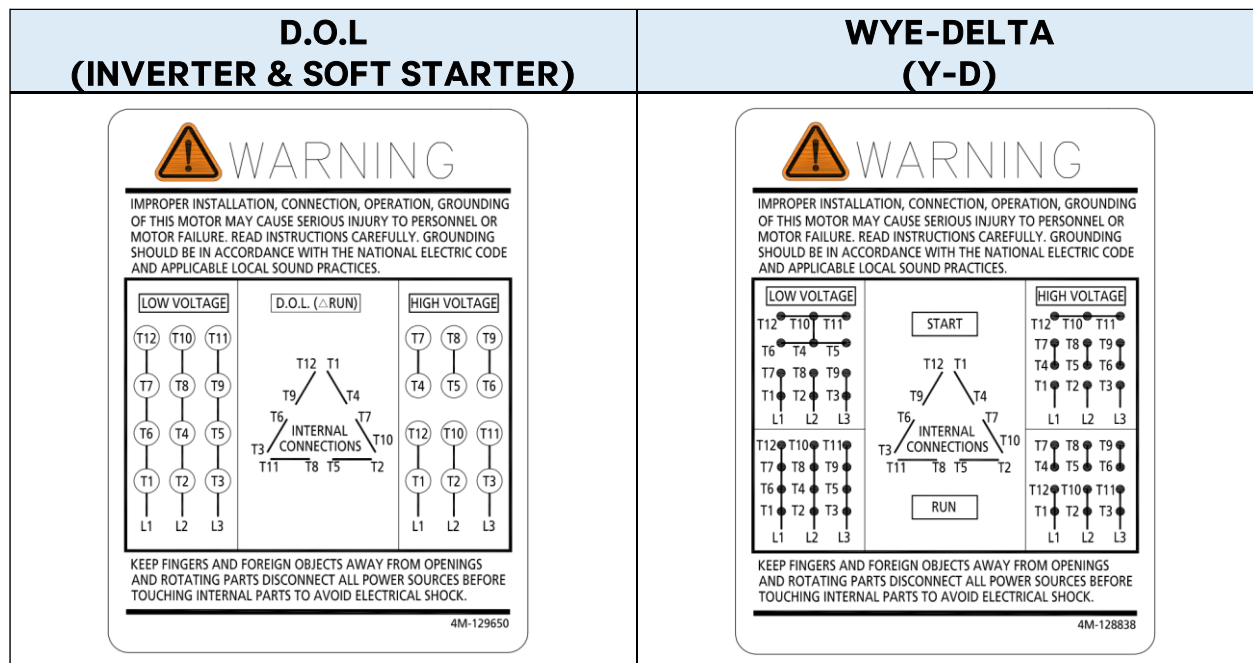
1		2		3		4	
REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY

■ MAIN NAMEPLATE

4.72



WIRING DIAGRAM



APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, JM/JP, 254-326)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			
DSND BY	S.H.LEE	DATE	2024.06.07			
 HD HYUNDAI ELECTRIC				TITLE		
				NAMEPLATE DRAWING		
				REF. NO	4M-137666 / 4M-129650	Sheet No. of
				DWG NO	NP-HES30-12-324/6JP	Revision No. 0

Type : PJP

22kW 30HP 6 P 60 Hz

Full Load Torque : 131.91 lb.ft

Speed at Full Load : 1175 RPM

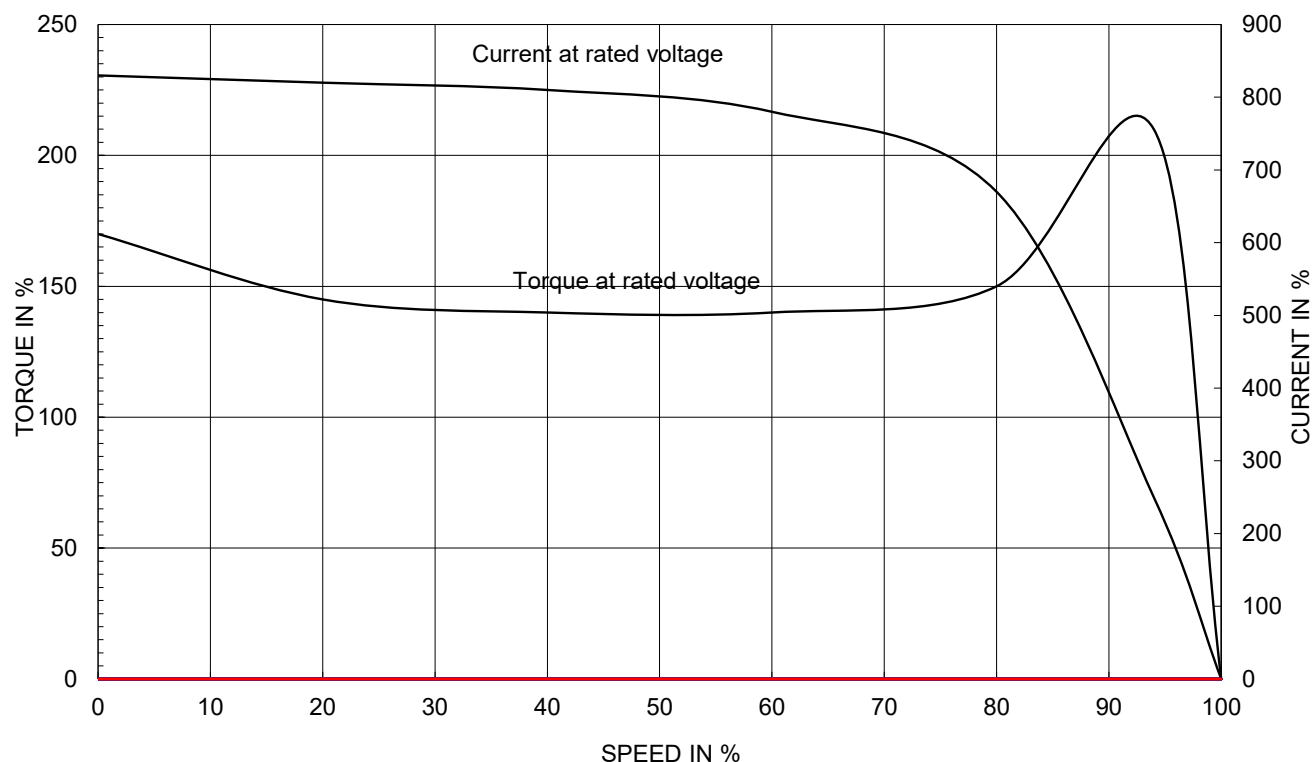
Load moment of Inertia (J) : 442.185 lb.ft²

Rated Voltage	575V	460V	230V
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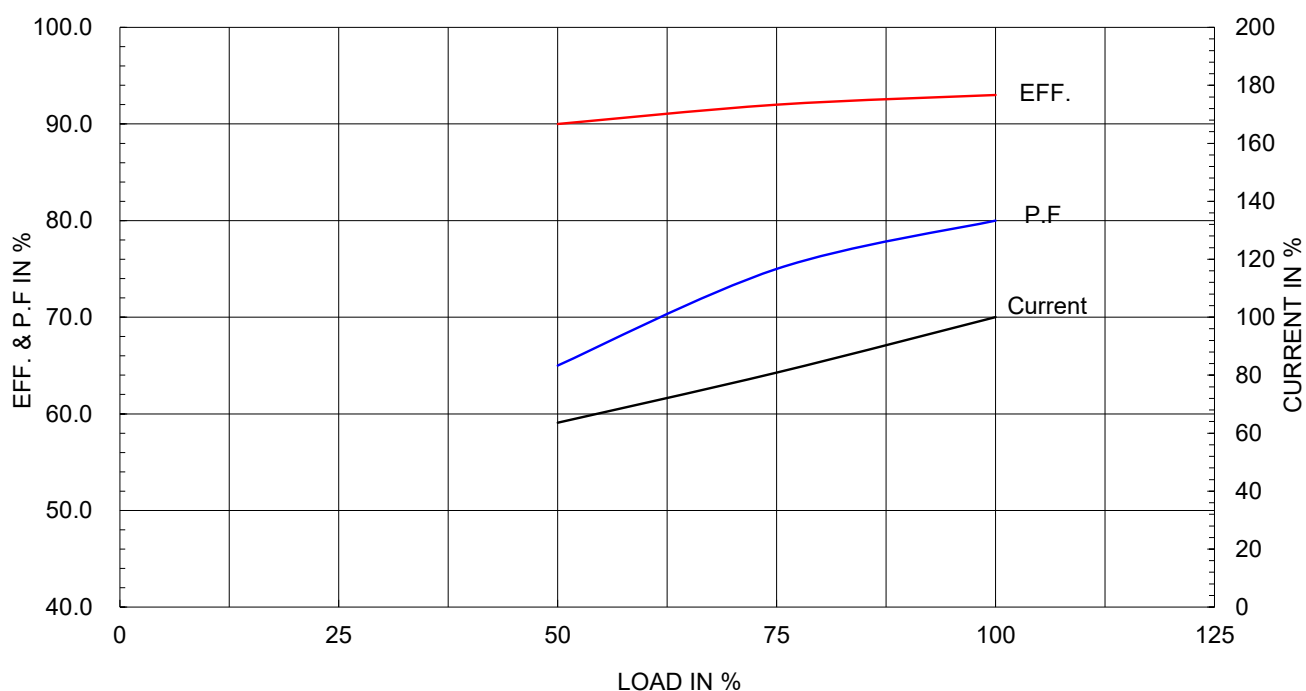
Motor moment of Inertia (J) : 10.443 lb.ft²

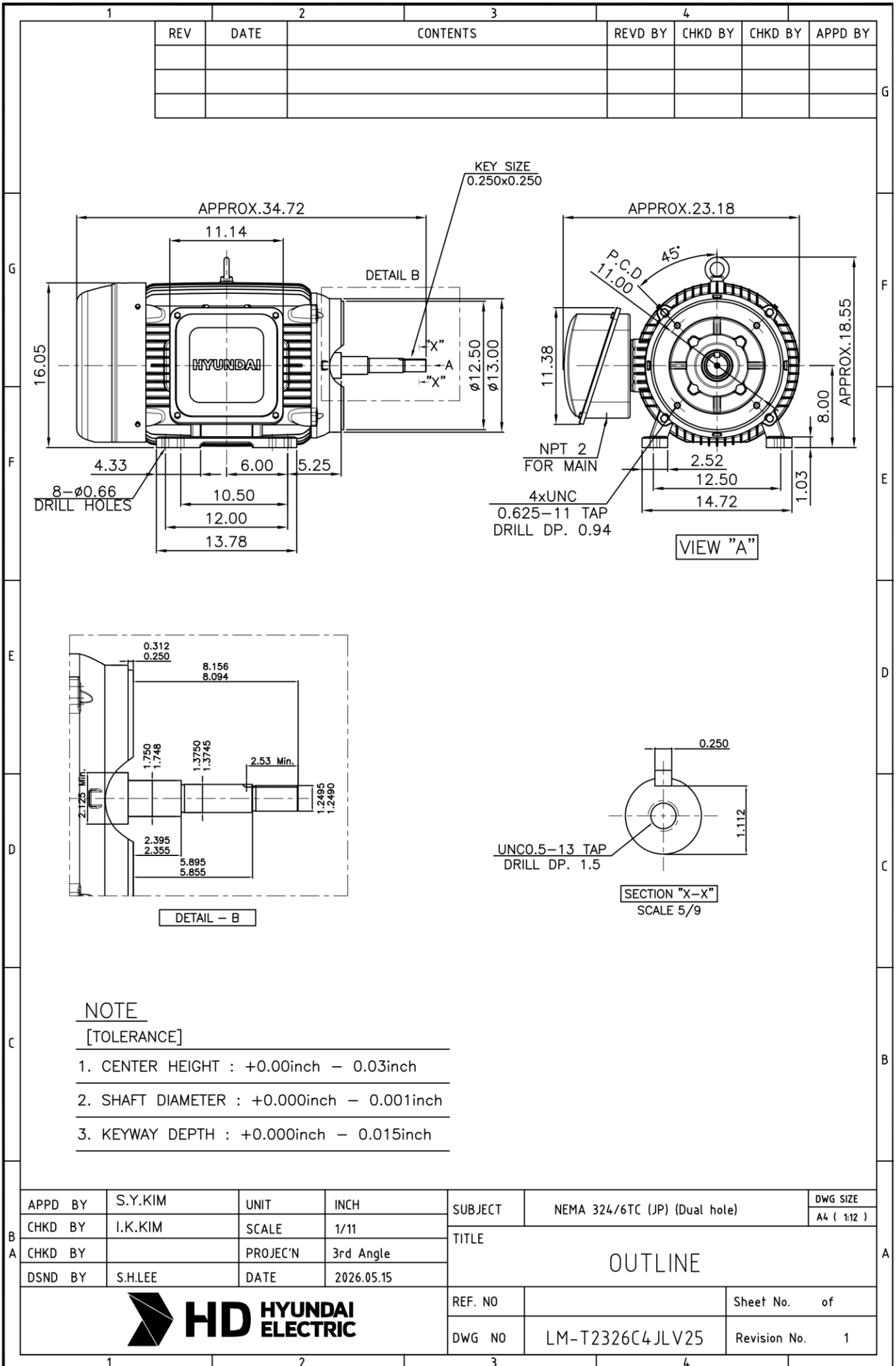
Full Load Current	29.7A	37.1A	74.2A
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SPEED VS TORQUE & CURRENT CURVE



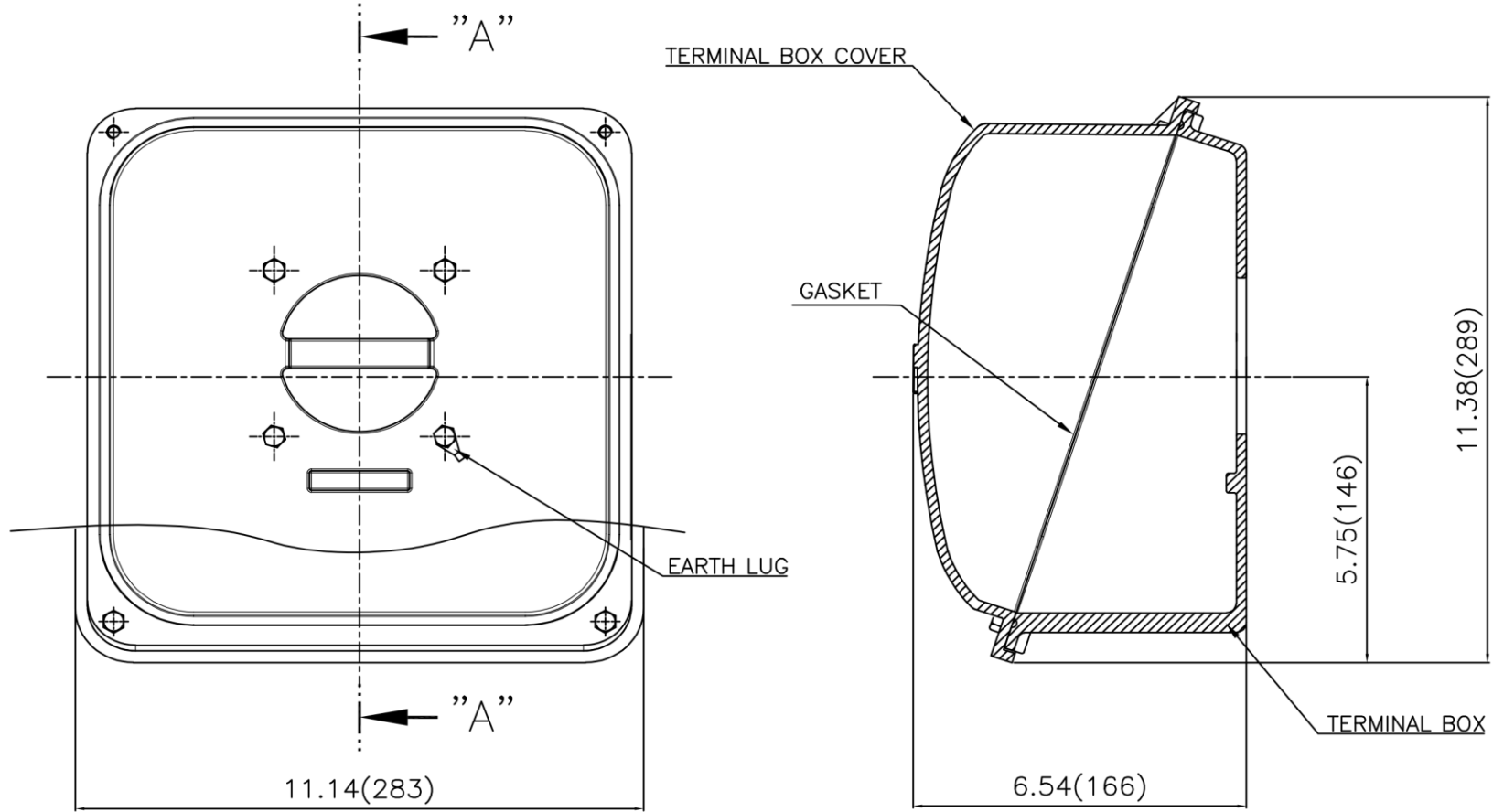
OUTPUT VS EFF., P.F & CURRENT CURVE





Cls. I&II, Div. 2

IEEE 841



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

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	A3 (1:2.5)
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

