

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.	HES50-18-324/6JP	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA						
Frame Size		326JP		Rated Output		37 kW		50 HP	
Type		PJP		Number of Poles		4			
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	46.8 A	58.5 A	117.0 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		91.5 %			
Motor Location		☐ Indoor ☐ Outdoor		75% Load		93.5 %			
Altitude		Less than 1,000 meter		100% Load		94.5 %			
Relative Humidity		Less than 80 %		Power Factor(p.u)					
Ambient Temp.		40 deg. C (Max.)		50% Load		0.690			
Duty Type		Continuous (S1)		75% Load		0.790			
Service Factor		1.15		100% Load		0.840			
Mounting		B35		Speed at Full Load		1780 r.p.m			
Bearing	Type	Anti-Friction		Torque					
	DE/N-DE	6313ZC3 / 6212ZC3		Full Load		146.44 lb.ft			
	Lubricant	Grease(Polyrex-EM)		Locked-rotor**		170 %			
External Thrust		Not applicable		Breakdown**		220 %			
Coupling Method		☒ Direct ☐ V-belt		Moment of Inertia (J)					
Shaft Extension		Single		Load(Max.)		278.234 lb.ft2			
Terminal Box	Main	Cast Iron		Motor		8.307 lb.ft2			
	Aux.	No		Sound Pressure Level (No-load & mean value at 1m from motor)					
	Location	Refer to Outline Drawing				74 dB(A)			
Application				Vibration		3.8 mm/s (peak)			
Area classification		Hazardous		Permissible number of consecutive starts		Cold	3 times		
Type of Ex-Protection		Class I&II, Division 2				Hot	2 times		
Applicable Standard		NEMA MG1, CSA C390		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 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.

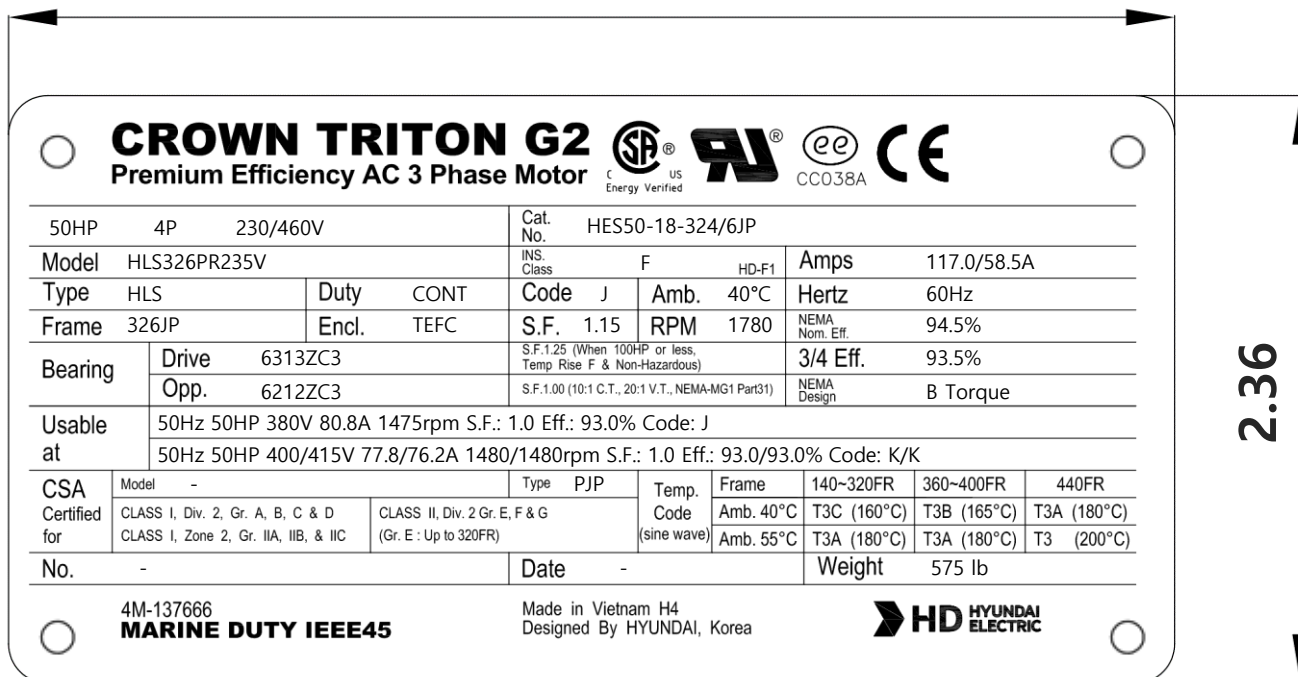
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

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

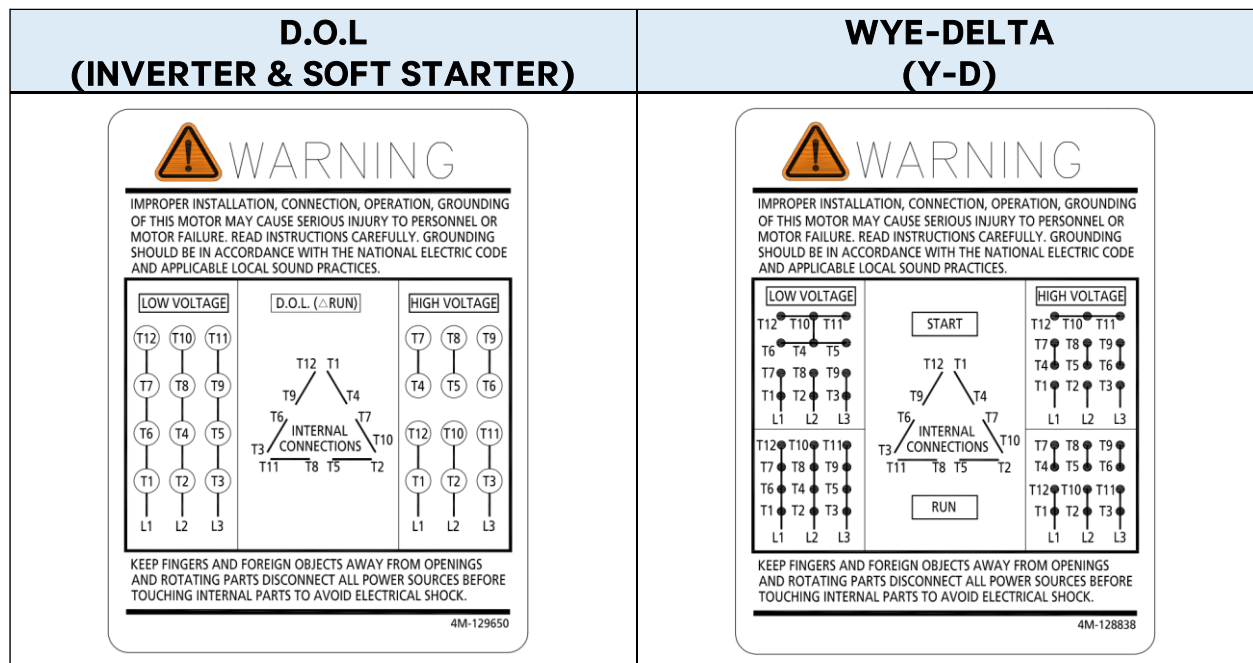
2		3		4		
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

MAIN NAMEPLATE

4.72



■ WIRING DIAGRAM

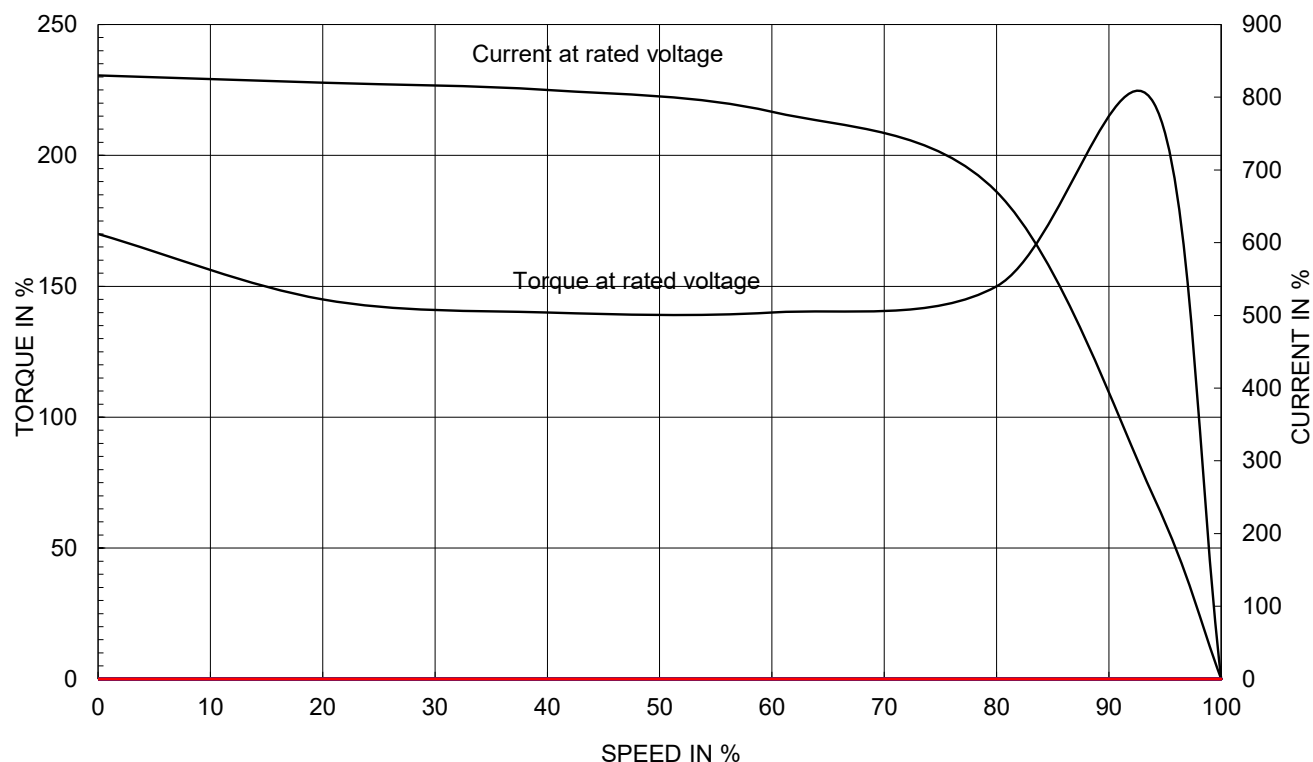


APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, JM/JP, 254-326)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			
DSND BY	S.H.LEE	DATE	2024.06.07			
 HD HYUNDAI ELECTRIC				TITLE		
				NAMEPLATE DRAWING		
				REF. NO	4M-137666 / 4M-129650	Sheet No. of
				DWG NO	NP-HES50-18-324/6JP	Revision No. 0

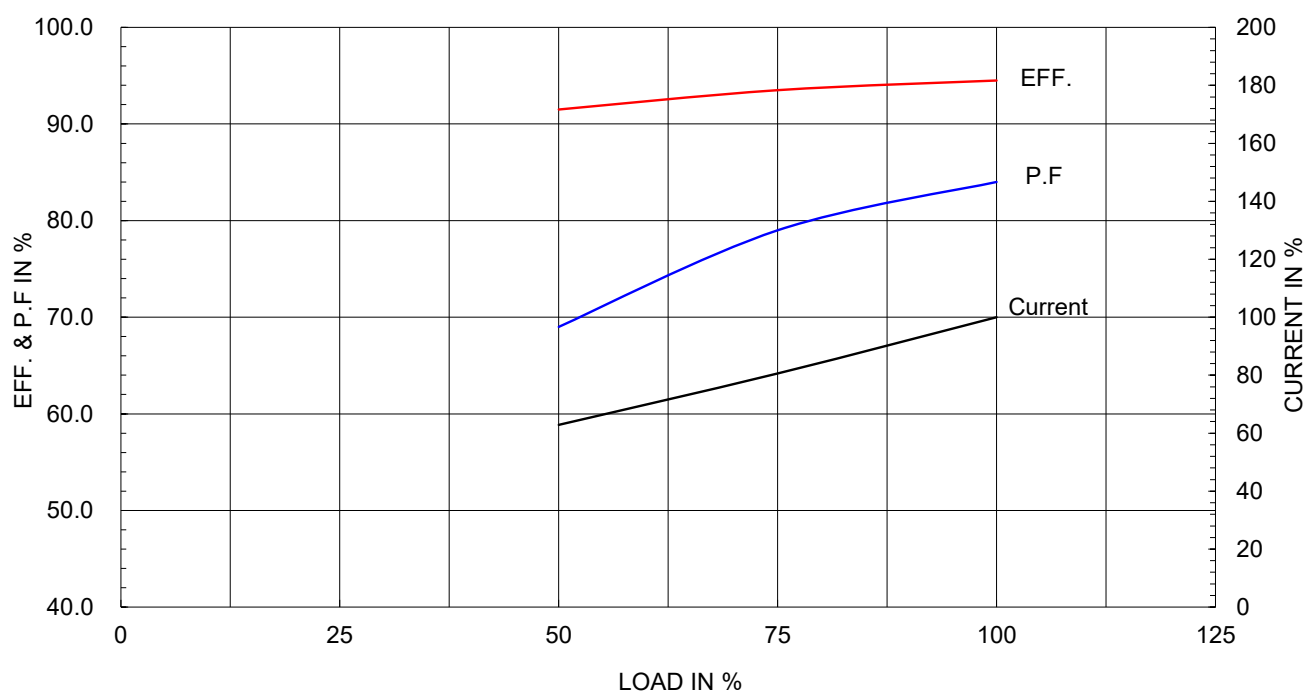
Type :	PJP	
Full Load Torque :	146.44	lb.ft
Load moment of Inertia (J) :	278.234	lb.ft2
Motor moment of Inertia (J) :	8.307	lb.ft2

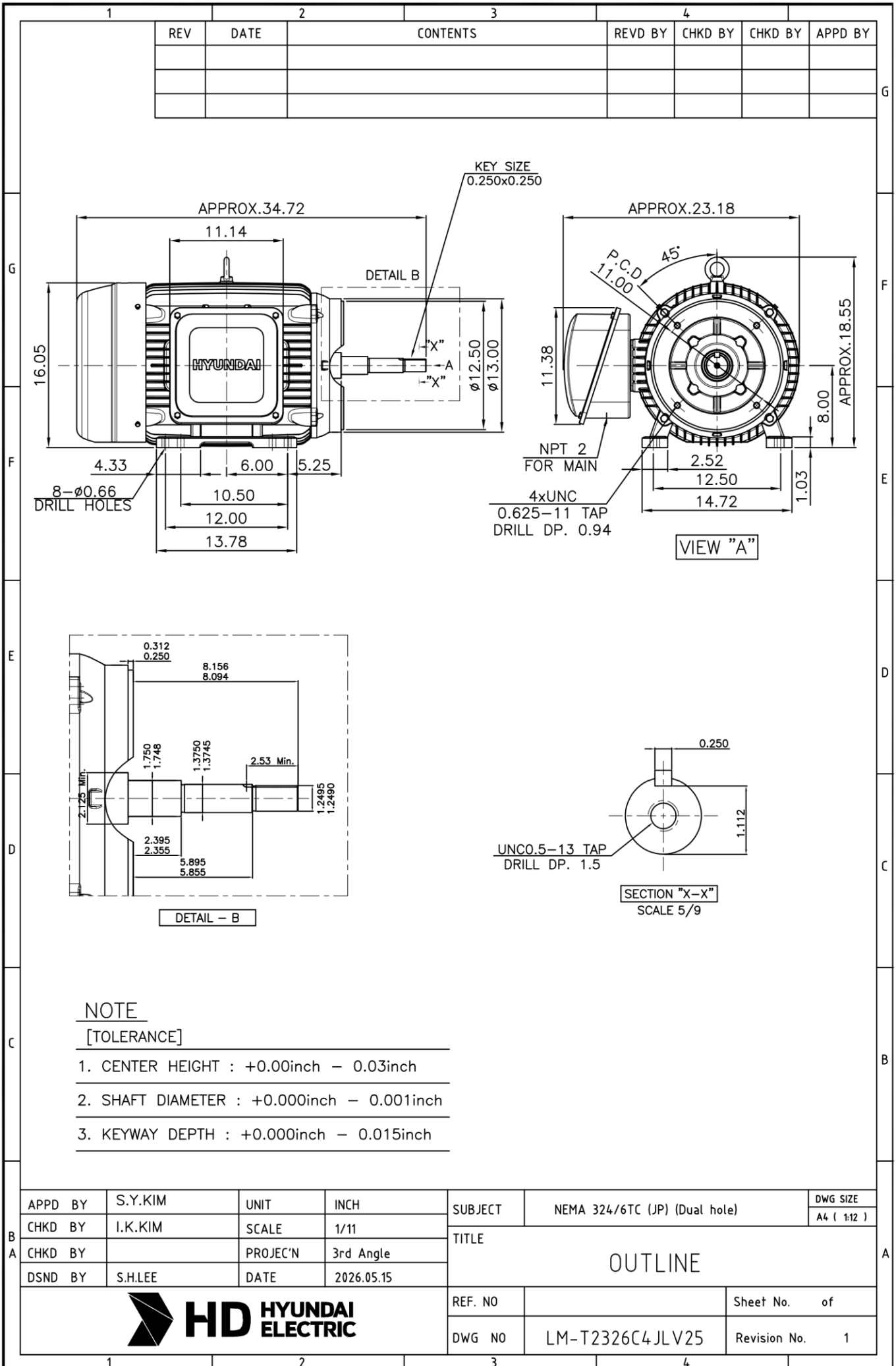
37kW	50HP	4 P	60 Hz
Speed at Full Load :			1780 RPM
Rated Voltage	575V	460V	230V
Full Load Current	46.8A	58.5A	117.0A

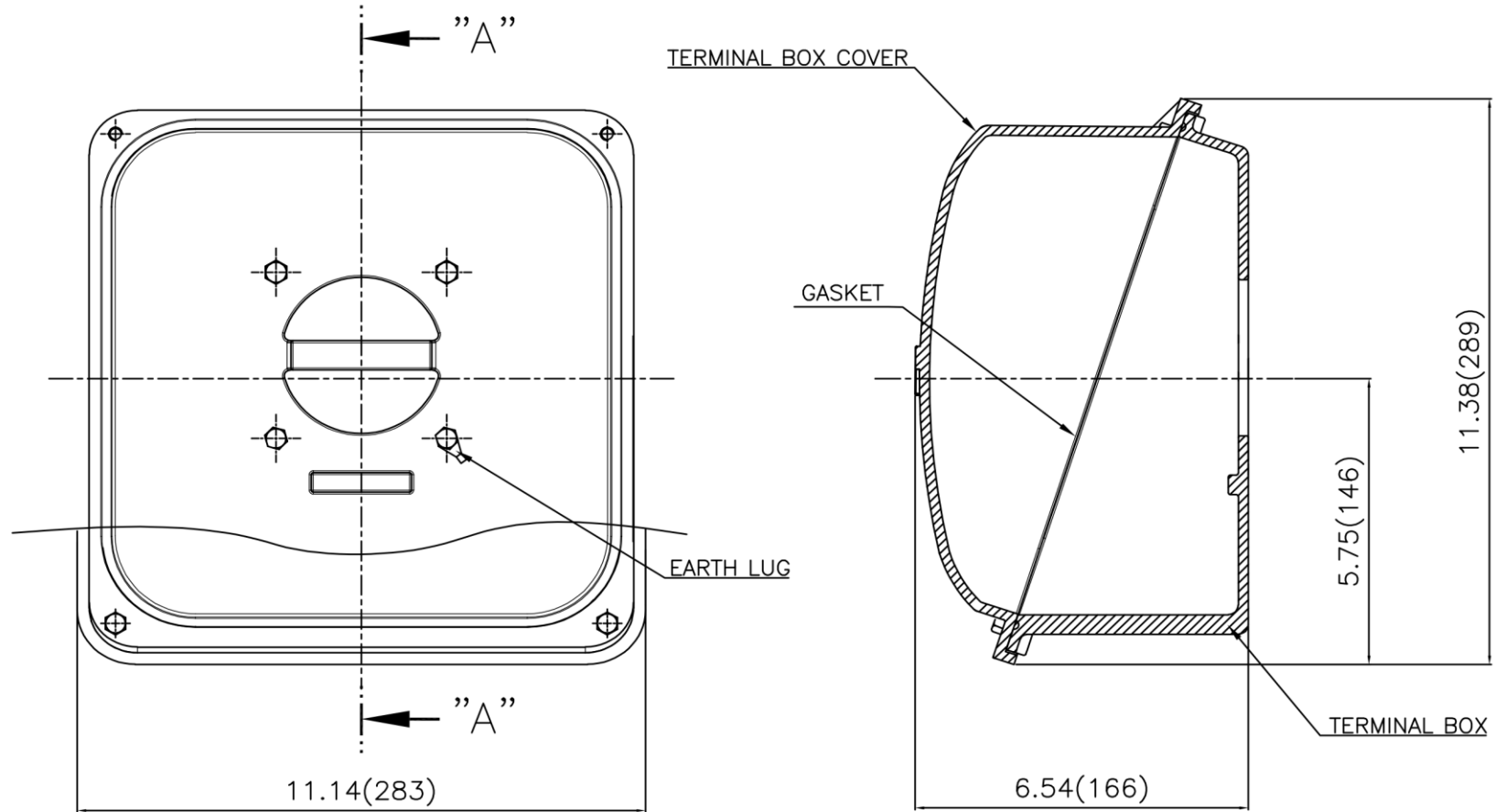
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





Cls. I&II, Div. 2
IEEE 841

SEC. "A"-"A"

▽	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
CHKD BY				SCALE	1/2.5					A3 (1:2.5)
CHKD BY		R.G.KIM		PROJEC'N	3rd Angle		TITLE TERMINAL BOX ASS'Y			
DSND BY		네슬의		DATE	2023-10-19					
 HD HYUNDAI ELECTRIC							REF. NO			Sheet No. of
							DWG NO	3M-248459		Revision No. 0

