

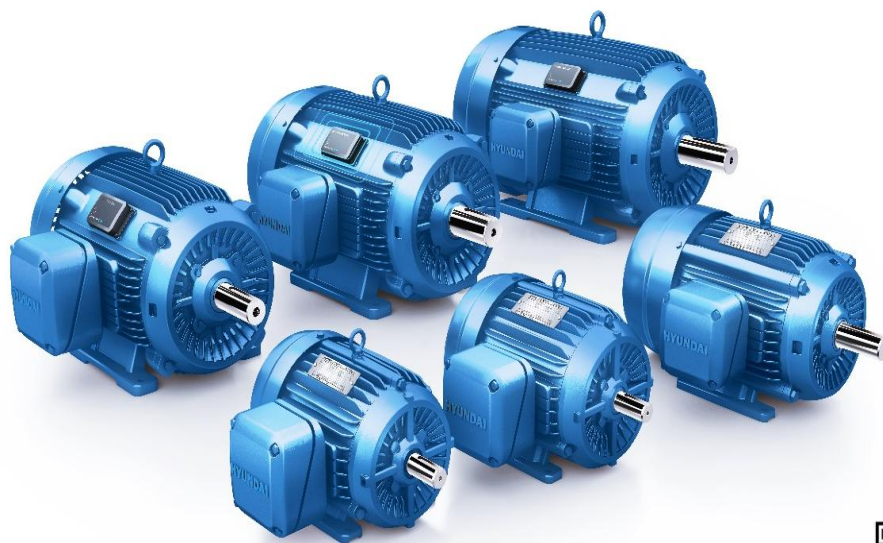
Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

www.hd-hyundaelectric.com

AC INDUCTION MOTOR DATA SHEET

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

GENERAL SPECIFICATION			PERFORMANCE DATA						
Frame Size		326JM		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							
Motor Location		☐ Indoor ☐ Outdoor							
Altitude		Less than 1,000 meter							
Relative Humidity		Less than 80 %		Power Factor(p.u)					
Ambient Temp.		40 deg. C (Max.)							
Duty Type		Continuous (S1)							
Service Factor		1.15							
Mounting		B35		Speed at Full Load		1780 r.p.m			
Bearing	Type	Anti-Friction		Torque					
	DE/N-DE	6313ZC3 / 6212ZC3							
	Lubricant	Grease(Polyrex-EM)							
External Thrust		Not applicable		Moment of Inertia (J)					
Coupling Method		☒ Direct ☐ V-belt							
Shaft Extension		Single							
Terminal Box	Main	Cast Iron		Sound Pressure Level (No-load & mean value at 1m from motor)					
	Aux.	No							
	Location	Refer to Outline Drawing							
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-T2326C4MLV25 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				
SPARE PARTS					
	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.

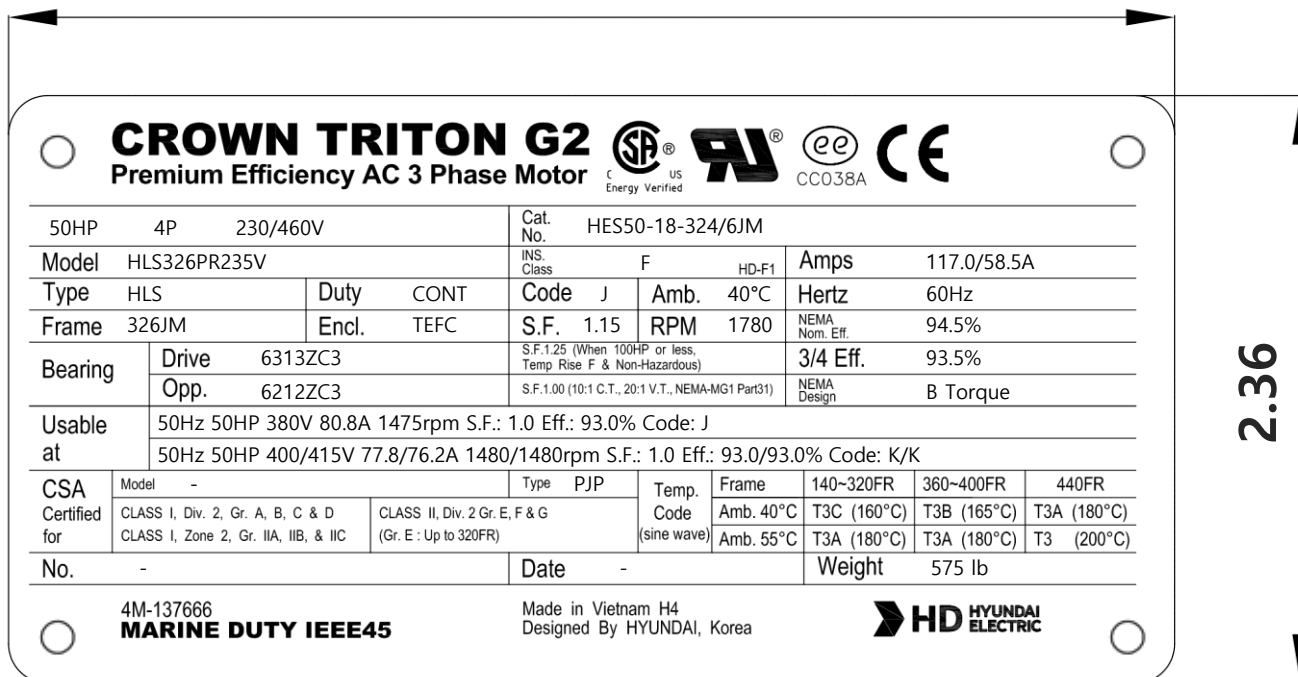
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

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

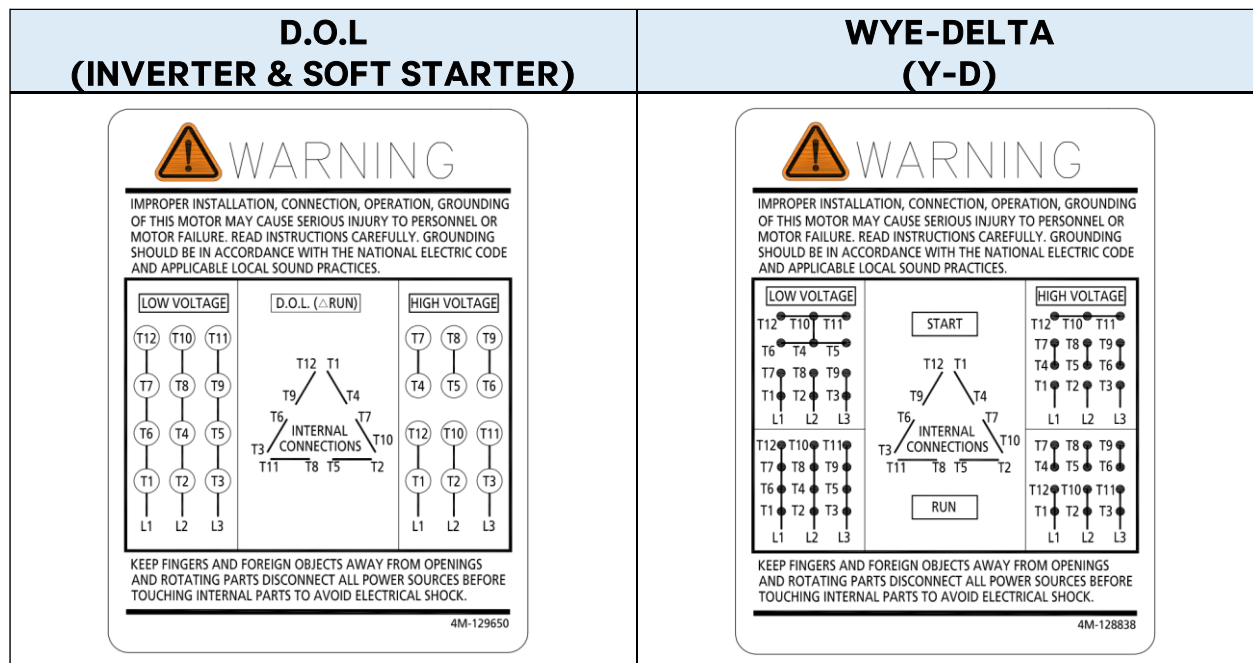
2		3		4		
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

■ 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-HES50-18-324/6JM	Revision No. 0

Type : PJP

37kW 50HP 4 P 60 Hz

Full Load Torque : 146.44 lb.ft

Speed at Full Load : 1780 RPM

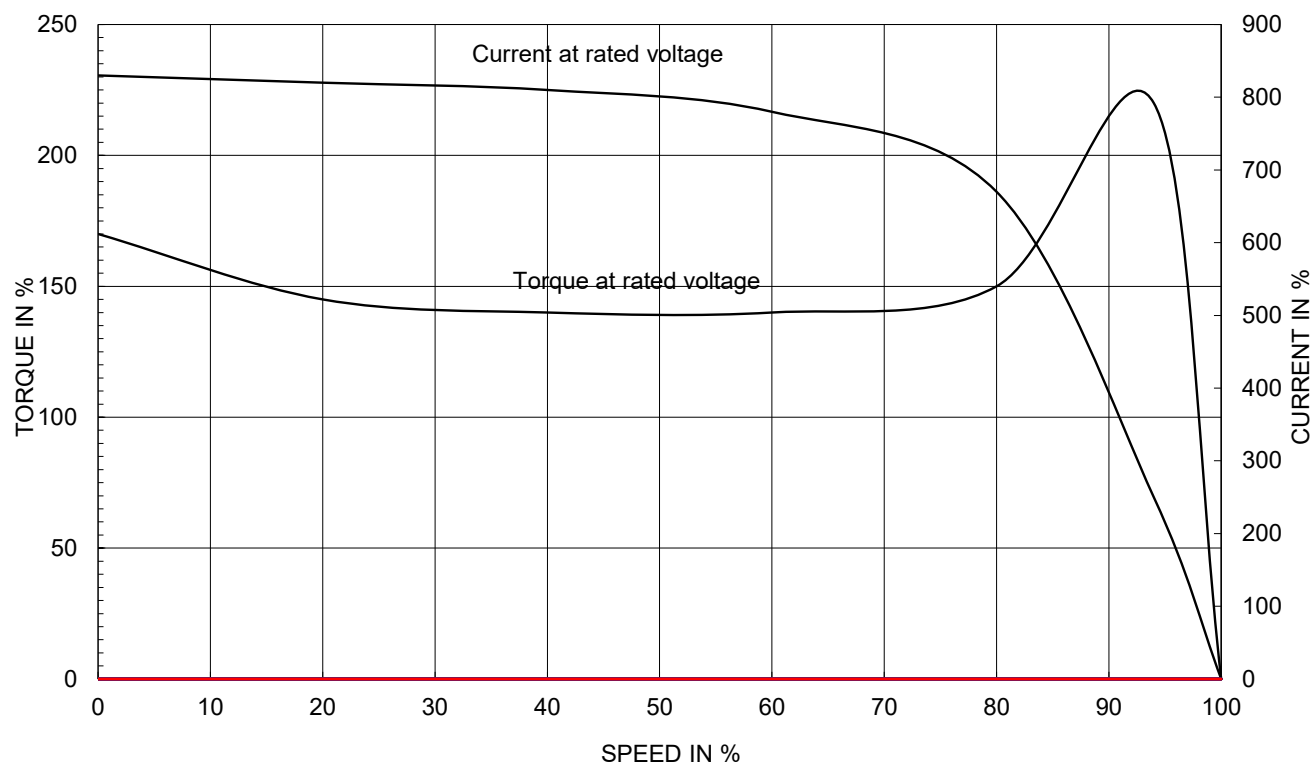
Load moment of Inertia (J) : 278.234 lb.ft²

Rated Voltage	575V	460V	230V
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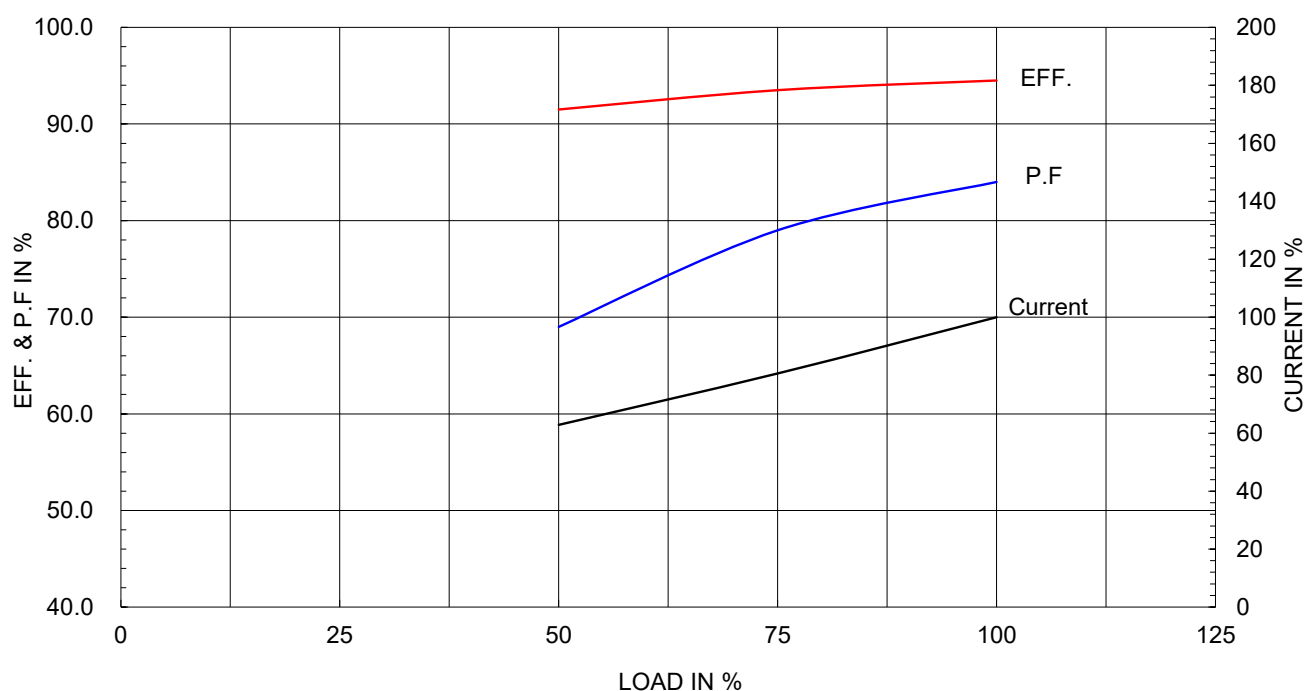
Motor moment of Inertia (J) : 8.307 lb.ft²

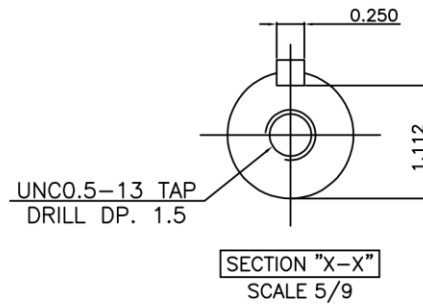
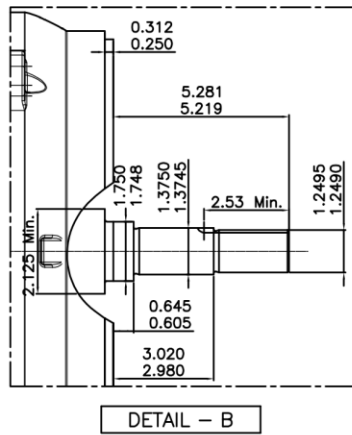
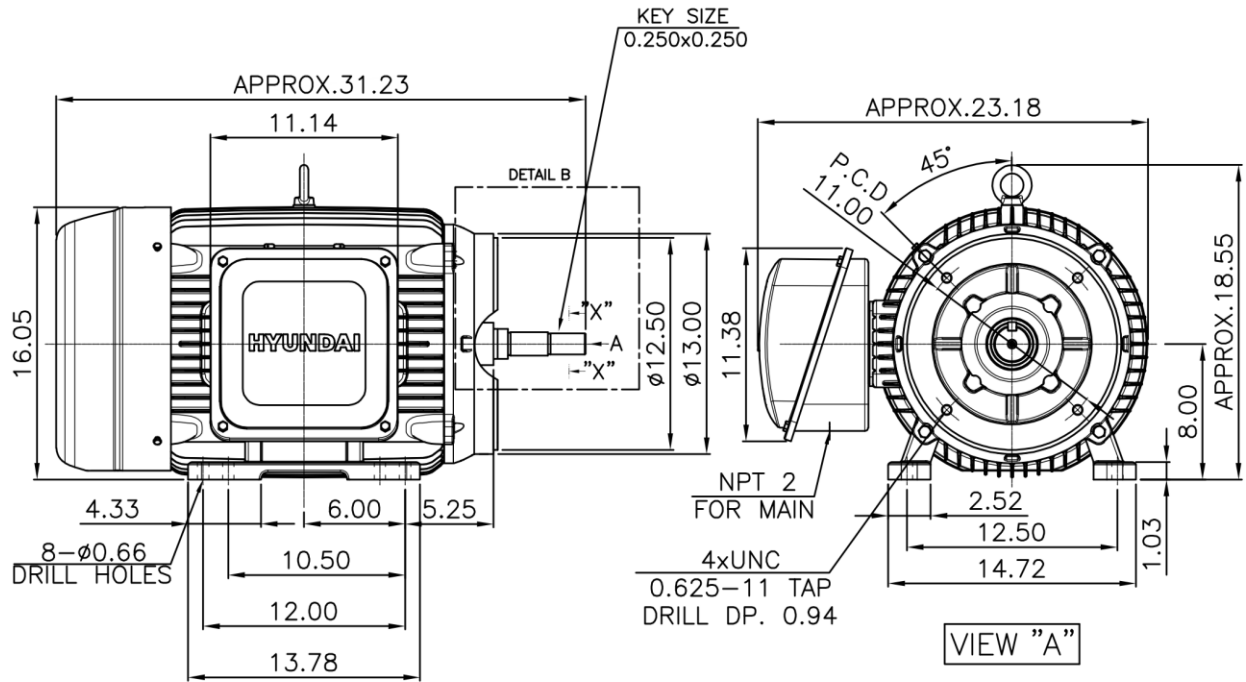
Full Load Current	46.8A	58.5A	117.0A
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SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



**NOTE**

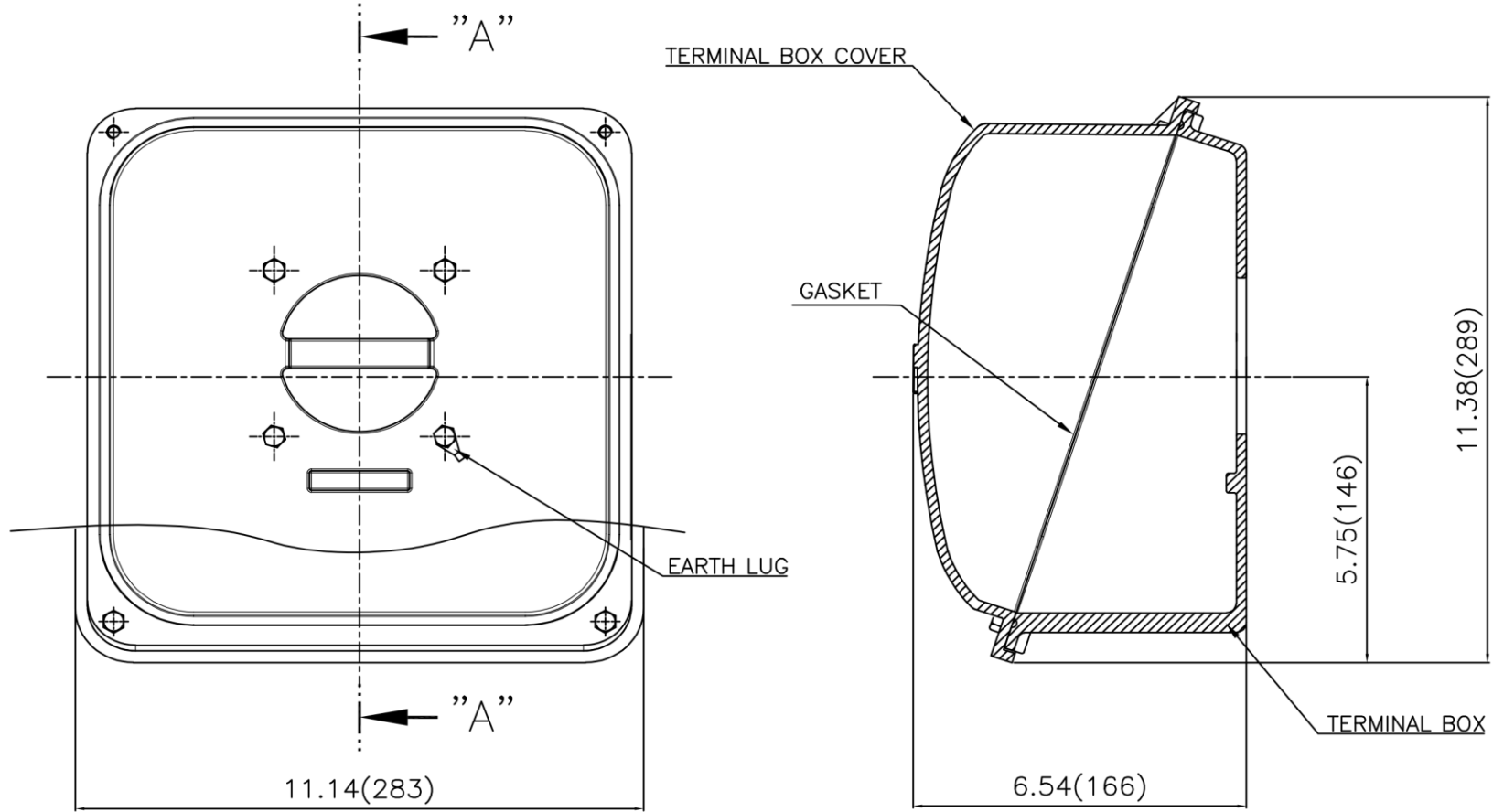
[TOLERANCE]

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

APPD BY	S.W.KIM	UNIT	INCH	SUBJECT	NEMA 324/6TC (JM) (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	S.H.LEE	DATE	2025-01-14					
 HD HYUNDAI ELECTRIC				REF. NO		Sheet No.	of	
				DWG NO	LM-T2326C4MLV25	Revision No.	1	

Cls. I&II, Div. 2

IEEE 841



SEC. "A"-"A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D 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

