

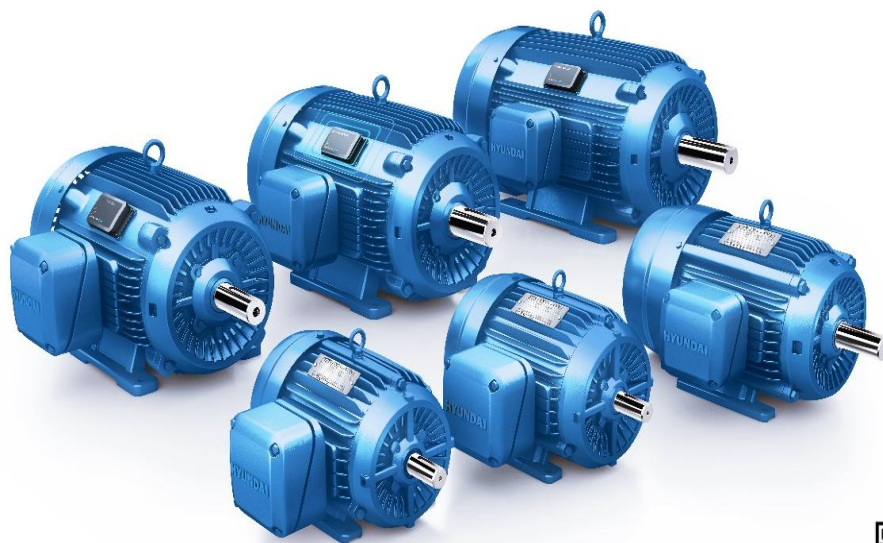
Customer :

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.	HES15-18-254/6JM	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA						
Frame Size		256JM		Rated Output		11 kW		15 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	14.6 A	18.2 A	36.4 A	
Insulation Class		F			Locked-rotor**	750 %	750 %	750 %	
Temp. Rise at full load (by resistance method) at 1.0 S.F			80 deg. C		Efficiency				
Motor Location		☐ Indoor ☐ Outdoor							
Altitude		Less than 1,000 meter		50% Load		89.4 %			
Relative Humidity		Less than 80 %		75% Load		91.4 %			
Ambient Temp.		40 deg. C (Max.)		100% Load		92.4 %			
Duty Type		Continuous (S1)		Power Factor(p.u)					
Service Factor		1.15							
Mounting		B35							
Bearing	Type	Anti-Friction		Torque					
	DE/N-DE	6310ZC3 / 6309ZC3							
	Lubricant	Grease(Polyrex-EM)							
External Thrust		Not applicable		Full Load		43.66 lb.ft			
Coupling Method		☒ Direct ☐ V-belt		Locked-rotor**		200 %			
Shaft Extension		Single		Breakdown**		240 %			
Terminal Box	Main	Cast Iron		Moment of Inertia (J)					
	Aux.	No							
	Location	Refer to Outline Drawing							
Application				Load(Max.)		122.210 lb.ft2			
Area classification		Hazardous		Motor		2.635 lb.ft2			
Type of Ex-Protection		Class I&II, Division 2		Sound Pressure Level (No-load & mean value at 1m from motor)					
Applicable Standard		NEMA MG1, CSA C390							
						70 dB(A)			
				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-T2256C4MLV25 310 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.

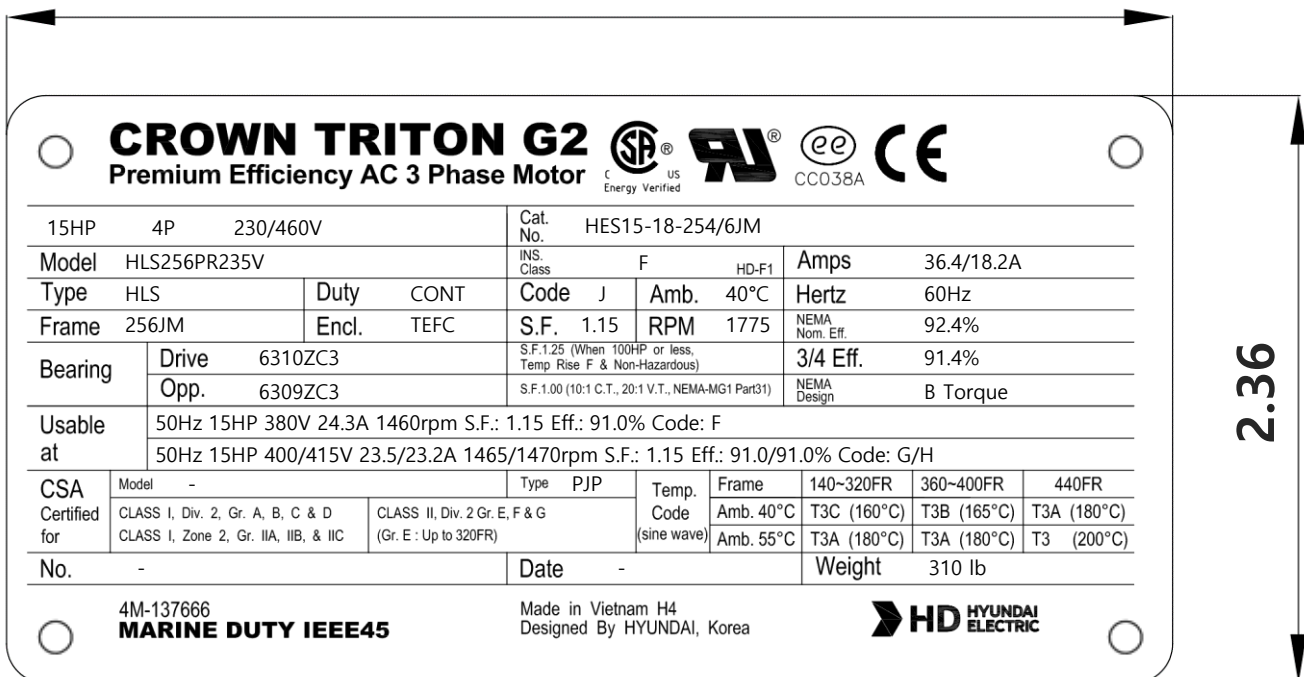
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

** 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

■ MAIN NAMEPLATE

4.72



■ 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.

LOW VOLTAGE	D.O.L (△ RUN)	HIGH VOLTAGE
T12 T10 T11 T7 T8 T9 T6 T4 T5 T1 T2 T3 L1 L2 L3	T12 T1 T9 T4 T6 T7 INTERNAL CONNECTIONS T11 T8 T5 T2	T7 T8 T9 T4 T5 T6 T12 T10 T11 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.

WYE-DELTA (Y-D)



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LOW VOLTAGE	START	HIGH VOLTAGE
T12 T10 T11 T6 T4 T5 T7 T8 T9 T1 T2 T3 L1 L2 L3	T12 T1 T9 T4 T6 T7 INTERNAL CONNECTIONS T11 T8 T5 T2	T12 T10 T11 T4 T5 T6 T1 T2 T3 L1 L2 L3
T12 T10 T11 T7 T8 T9 T6 T4 T5 T1 T2 T3 L1 L2 L3	T11 T8 T5 T2 INTERNAL CONNECTIONS T6 T7 T9 T4 T12 T1	T7 T8 T9 T4 T5 T6 T12 T10 T11 T1 T2 T3 L1 L2 L3

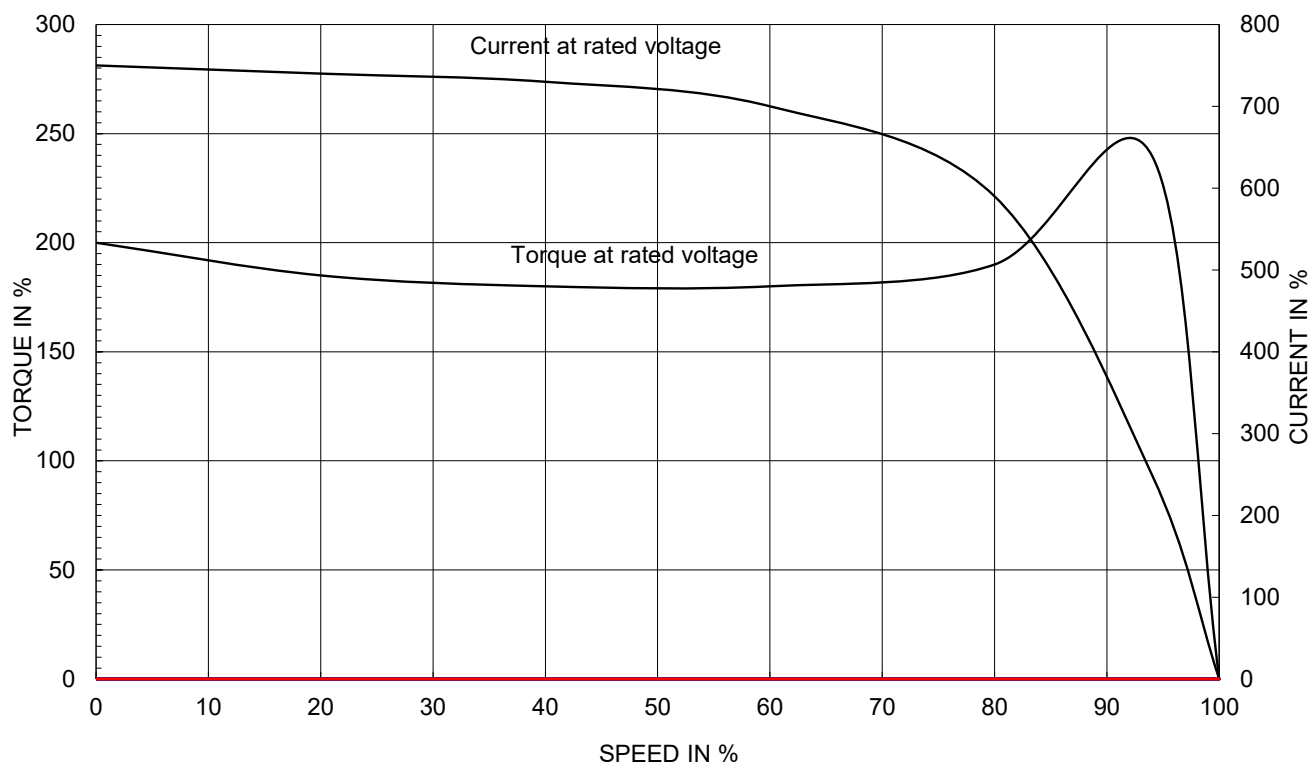
KEEP FINGERS AND FOREIGN OBJECTS AWAY FROM OPENINGS AND ROTATING PARTS DISCONNECT ALL POWER SOURCES BEFORE TOUCHING INTERNAL PARTS TO AVOID ELECTRICAL SHOCK.

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, JM/IP, 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			
				TITLE		
				NAMEPLATE DRAWING		
				REF. NO	4M-137666 / 4M-129650	Sheet No. of
				DWG NO	NP-HES15-18-254/6JM	Revision No. 0

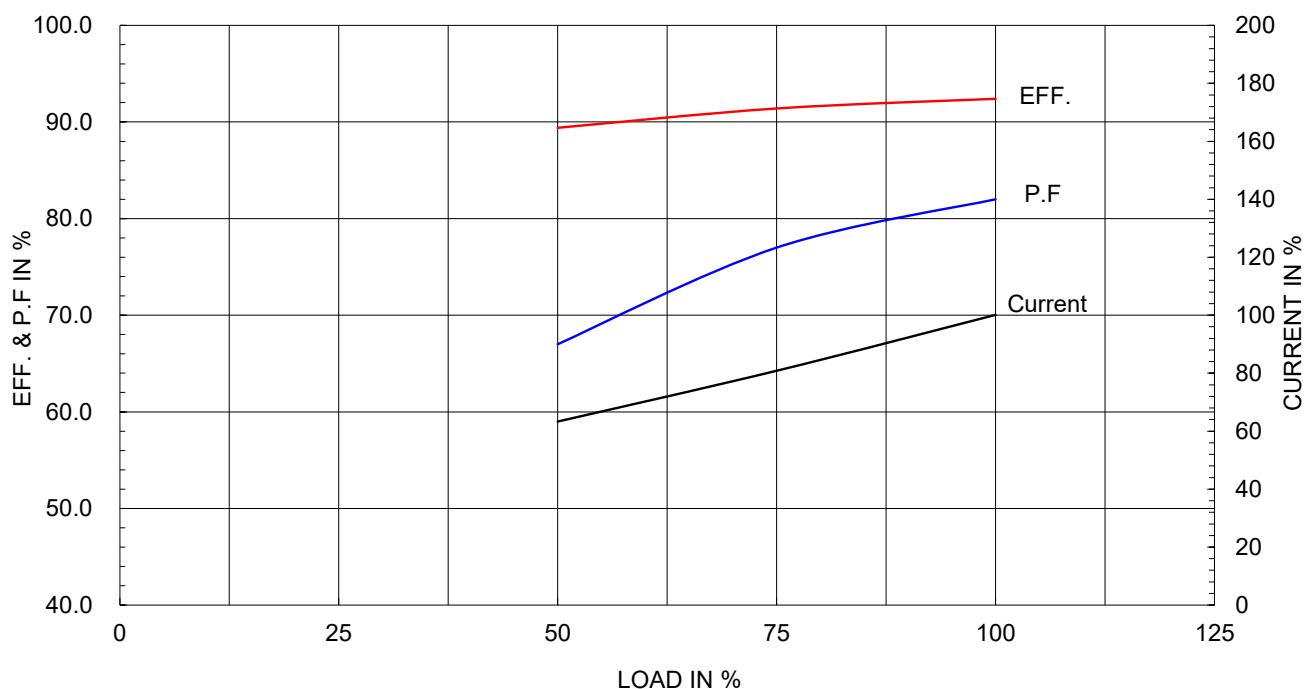
Type :	PJP	
Full Load Torque :	43.66	lb.ft
Load moment of Inertia (J) :	122.210	lb.ft2
Motor moment of Inertia (J) :	2.635	lb.ft2

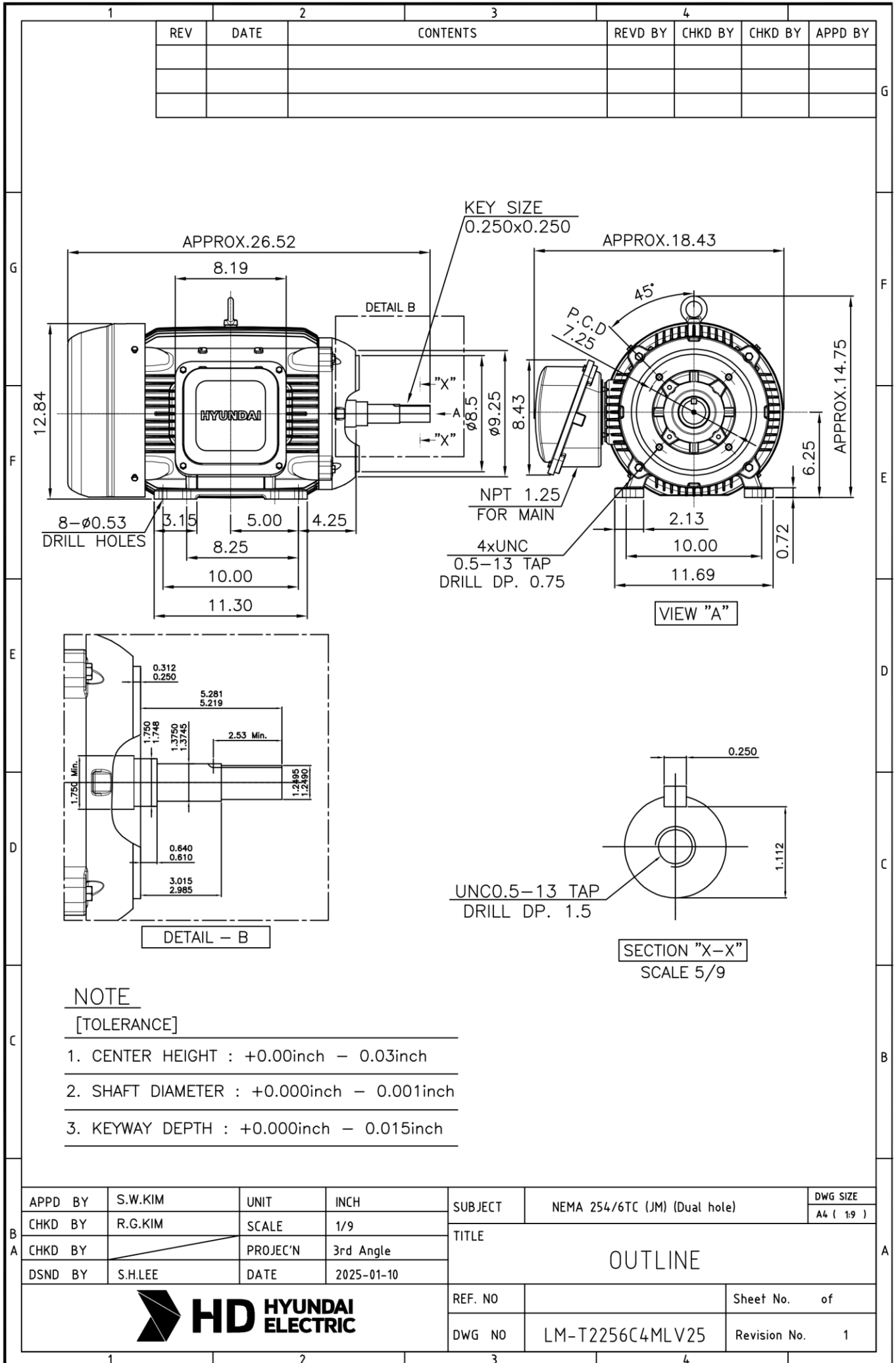
11kW 15HP	4 P	60 Hz
Speed at Full Load : 1775 RPM		
Rated Voltage	575V	460V 230V
Full Load Current	14.6A	18.2A 36.4A

SPEED VS TORQUE & CURRENT CURVE

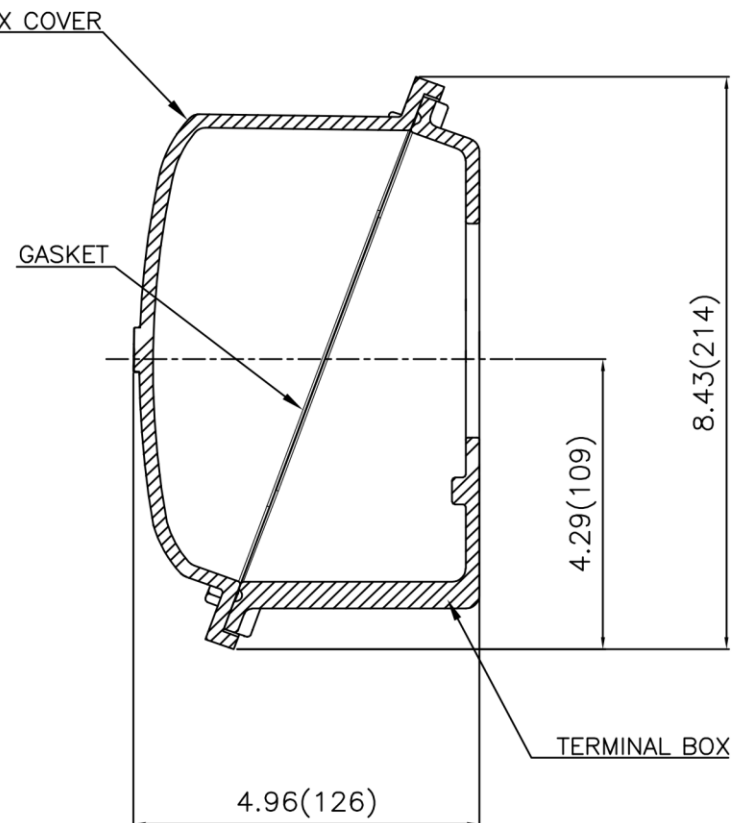
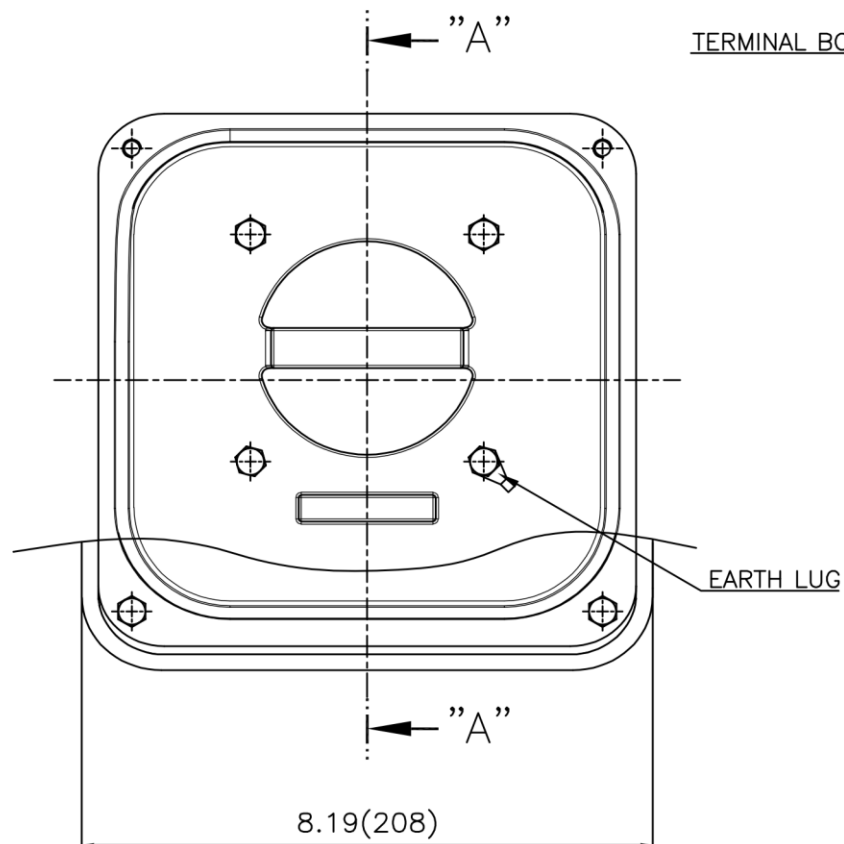


OUTPUT VS EFF., P.F & CURRENT CURVE





Cls. I&II, Div. 2
IEEE 841



SEC. "A"—"A"

	▽	50S
	▽▽	12.5S
	▽▽▽	3.2S
A	▽▽▽▽	0.4S

[illegible]

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					A3 (1:2)
CHKD	BY	R.G.KIM	PROJEC'N	3rd Angle							
DSND	BY	배슬희	DATE	2023-10-19							
 HD HYUNDAI ELECTRIC						REF. NO			Sheet No.	of	
						DWG NO	3M-248458		Revision No.	0	