

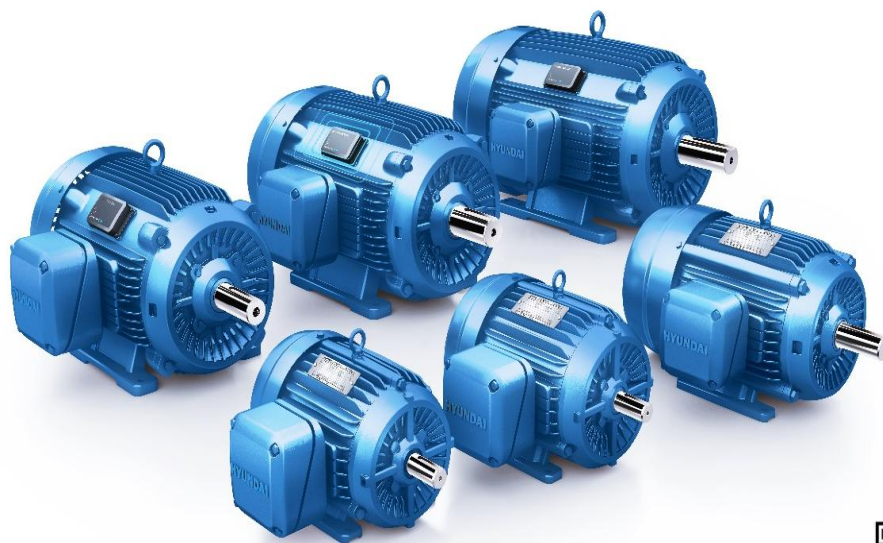
Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

www.hd-hyundaielectric.com

AC INDUCTION MOTOR DATA SHEET

Catalog No.	HES7.5-18-213/5JM	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA									
Frame Size		215JM		Rated Output		5.5 kW		7.5 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		7.82 A		9.78 A		19.6 A	
Insulation Class		F			Locked-rotor**		940 %		940 %		940 %	
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		1775 r.p.m						
Bearing	Type	Anti-Friction		Torque								
	DE/N-DE	6309ZZC3 / 6208ZZC3										
	Lubricant	Grease(Polyrex-EM)										
External Thrust		Not applicable		Full Load		21.83 lb.ft						
Coupling Method		☒ Direct ☐ V-belt		Locked-rotor**		190 %						
Shaft Extension		Single		Breakdown**		250 %						
Terminal Box	Main	Cast Iron		Moment of Inertia (J)								
	Aux.	No										
	Location	Refer to Outline Drawing										
Application				Load(Max.)		62.787 lb.ft2						
Area classification		Hazardous		Motor		0.712 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										
				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-T2215C4MLV25	190 lb.

SPARE PARTS			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				
			-. 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.

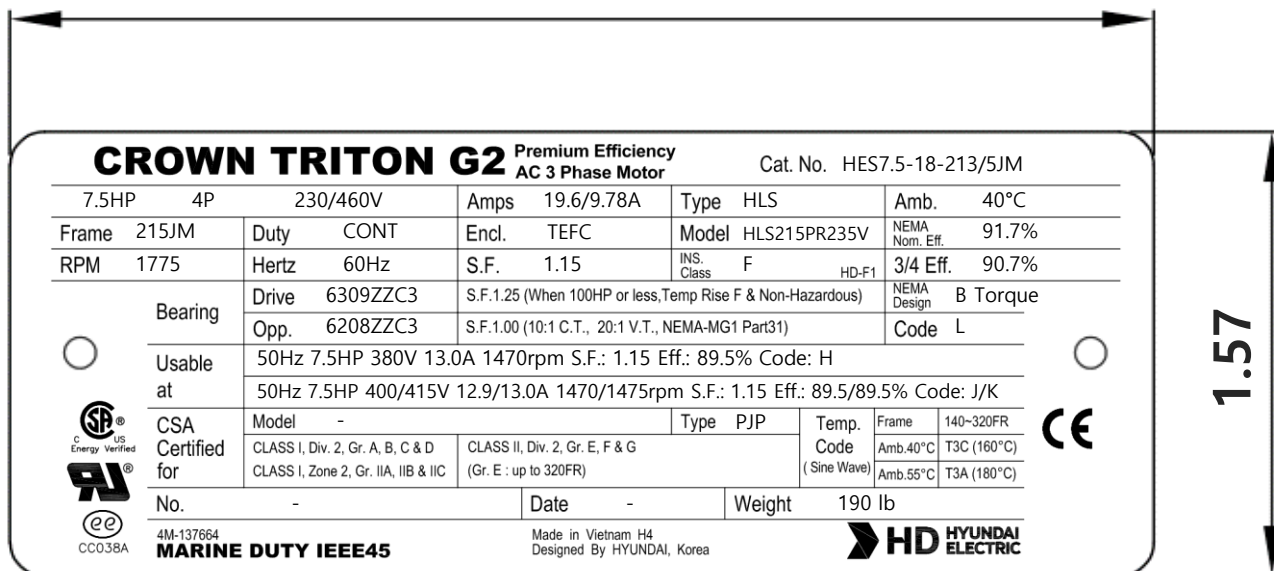
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

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

1		2	3	4			5
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY	

■ MAIN NAMEPLATE

3.94



■ WIRING DIAGRAM

**D.O.L
(INVERTER & SOFT STARTER)**

**WYE-DELTA
(Y-D)**

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	INTERNAL CONNECTIONS	HIGH VOLTAGE

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

4M-128845

N/A

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, JM/JP, 143-215)	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-137664 / 4M-128845	Sheet No. of
				DWG NO	NP-HES7.5-18-213/5JM	Revision No. 0

Type : PJP

5.5kW 7.5HP

4 P

60 Hz

Full Load Torque : 21.83 lb.ft

Speed at Full Load : 1775 RPM

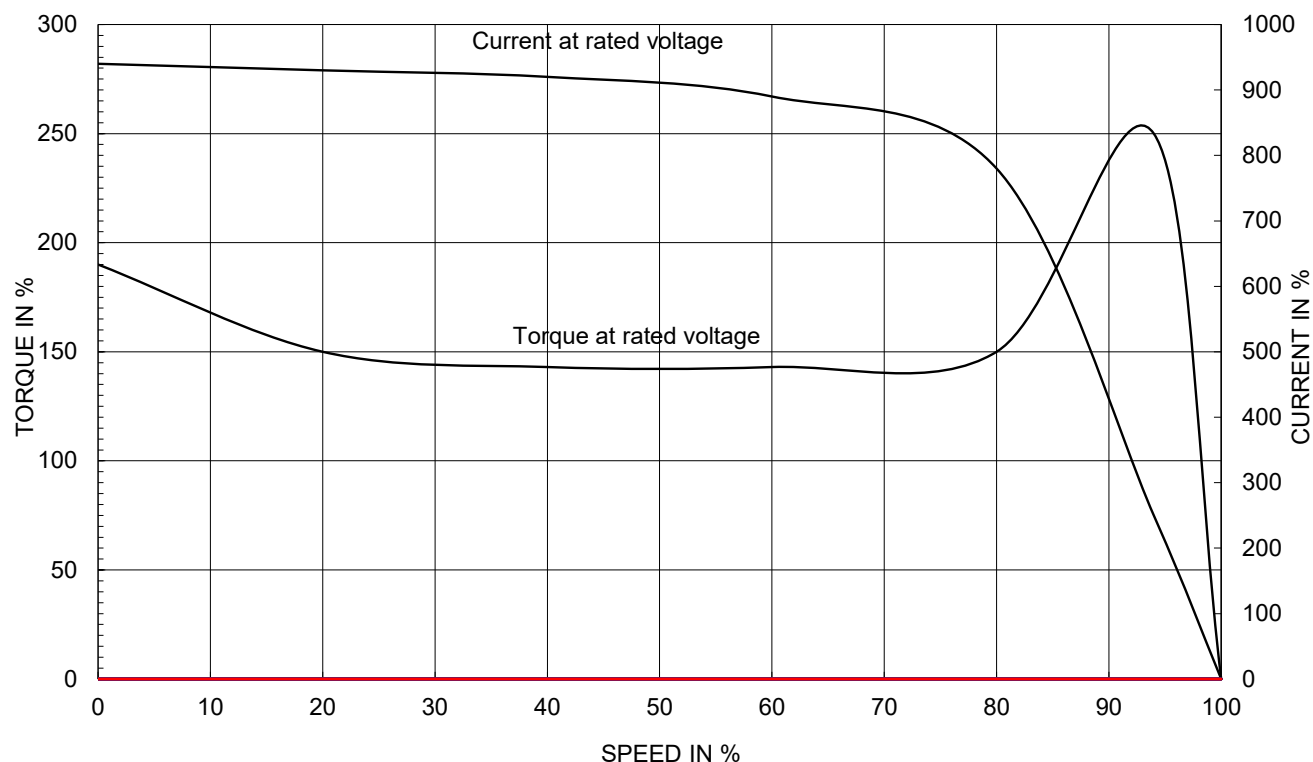
Load moment of Inertia (J) : 62.787 lb.ft²

Rated Voltage	575V	460V	230V
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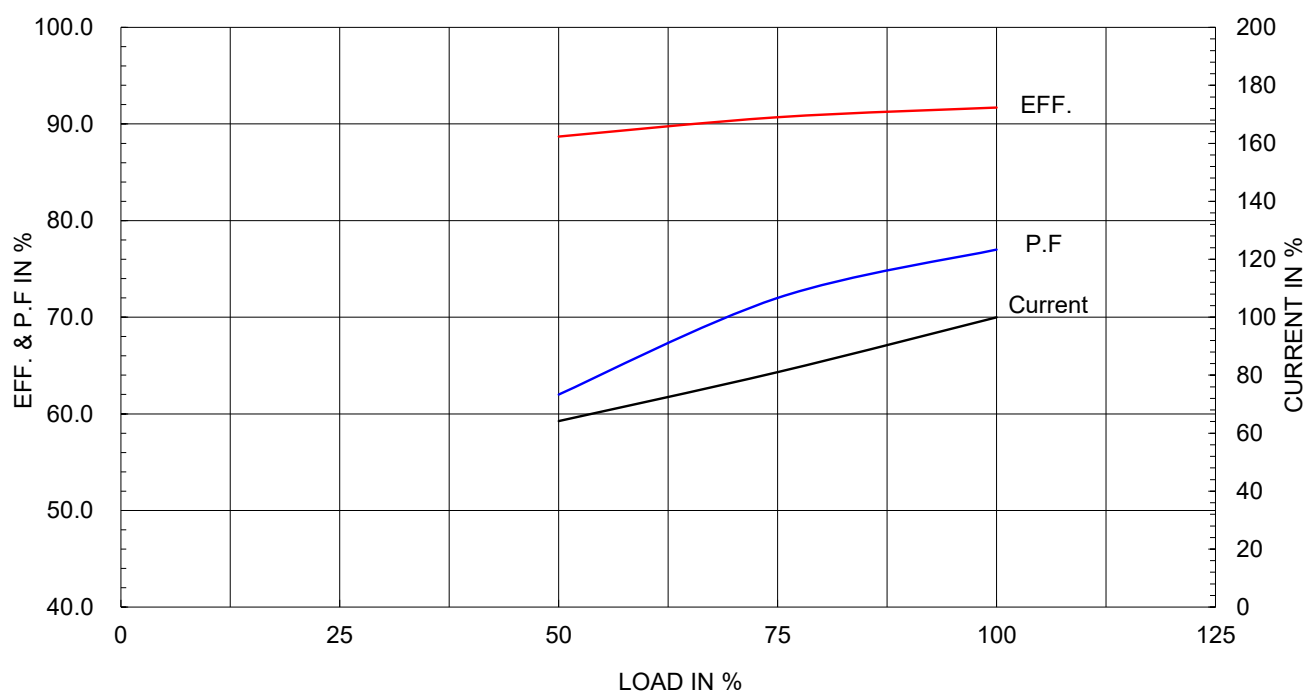
Motor moment of Inertia (J) : 0.712 lb.ft²

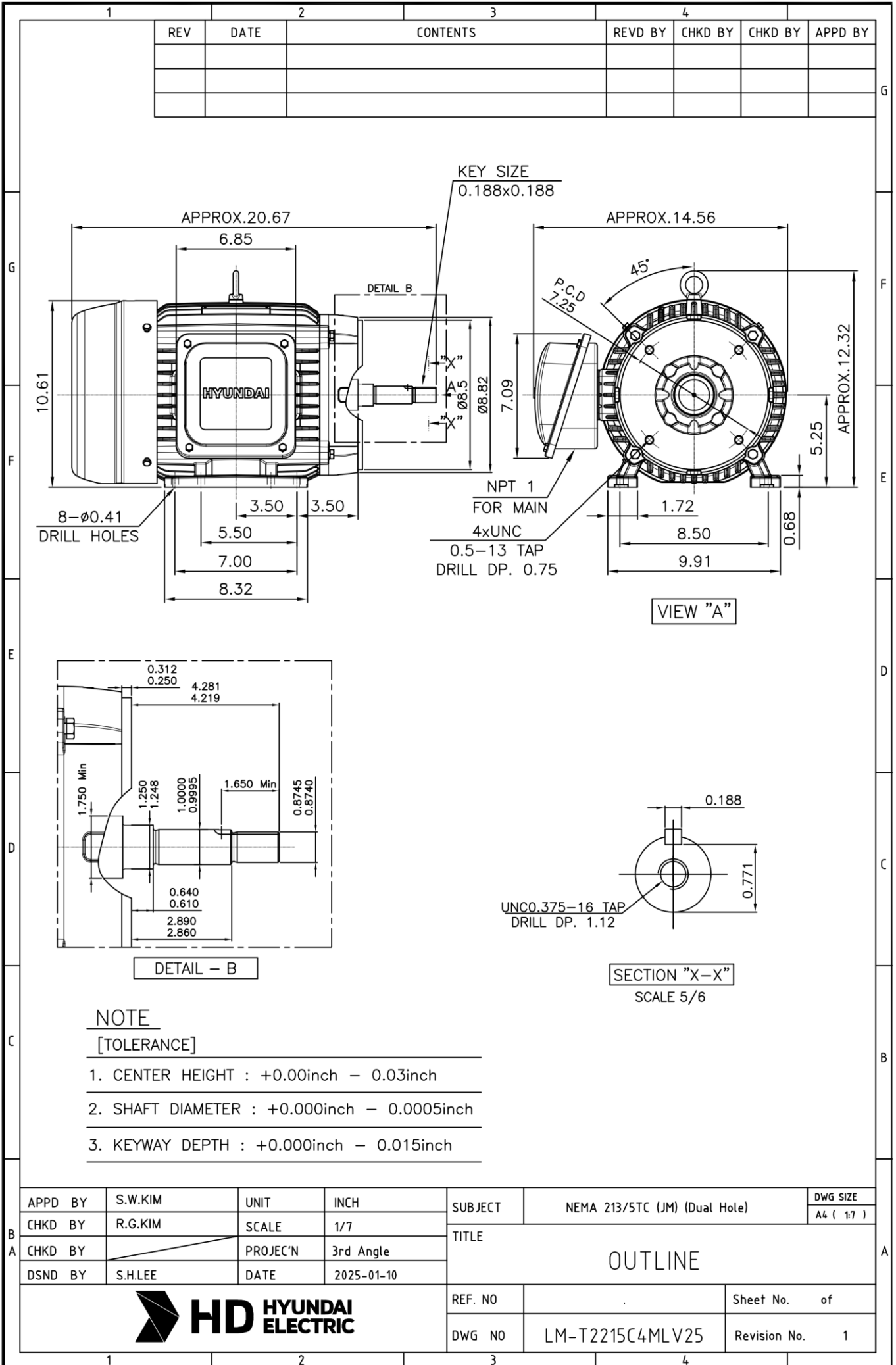
Full Load Current	7.82A	9.78A	19.6A
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SPEED VS TORQUE & CURRENT CURVE

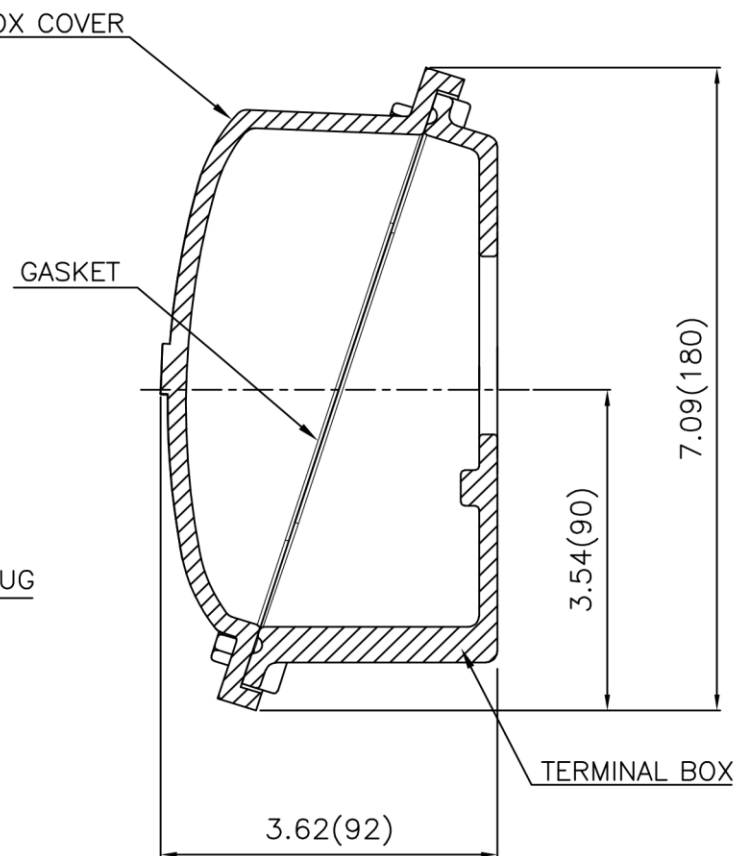
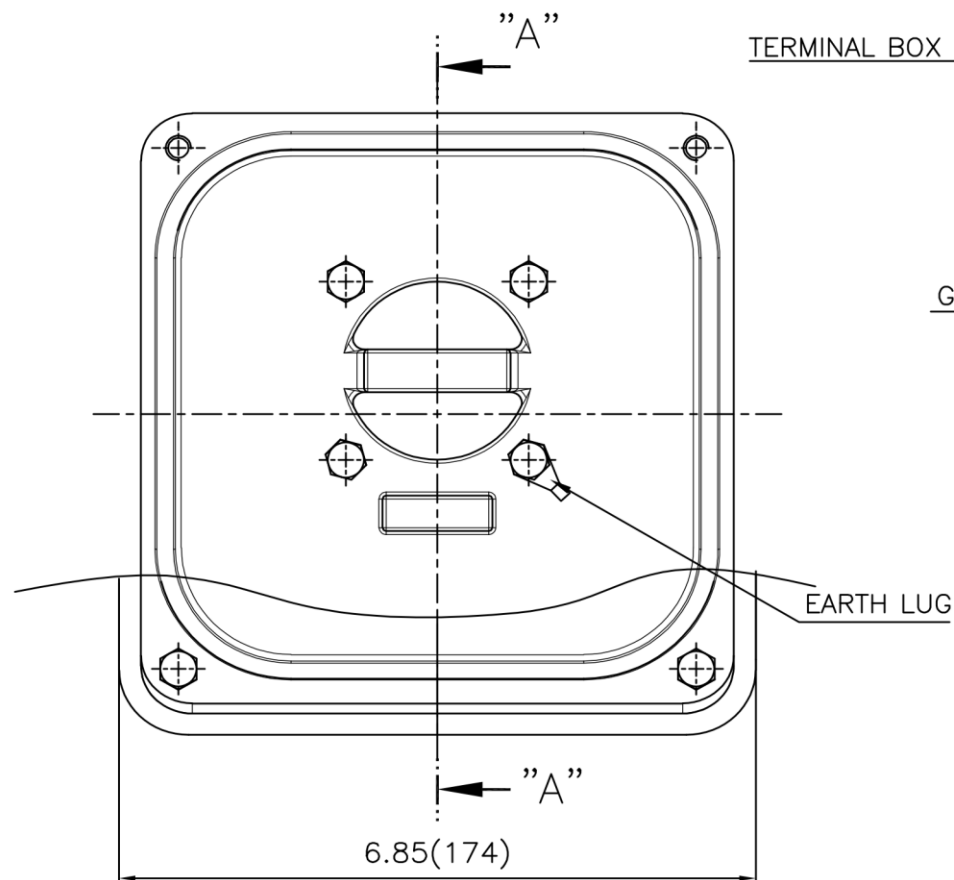


OUTPUT VS EFF., P.F & CURRENT CURVE





Cls. I&II, Div. 2
IEEE 841



SEC. "A"—"A"

A		50S
		12.5S
		3.2S
		0.4S

[illegible]

Q'TY		DESCRIPTION		MATERIAL	DIMENSION		WEIGHT	PART NO.	REMARK	NO.
APPD	BY	S.Y.KIM		UNIT	inch(mm)		SUBJECT	FR. 210 (CAST IRON)		DWG SIZE
CHKD	BY			SCALE	1/1.5		TITLE			A3 (1:1.5)
CHKD	BY	R.G.KIM		PROJEC'N	3rd Angle			TERMINAL BOX ASS'Y		
DSND	BY	네솔의		DATE	2023-10-19					
 HD HYUNDAI ELECTRIC							REF. NO			Sheet No. of
							DWG NO	3M-248457		Revision No. 0
6		7		8		9				