

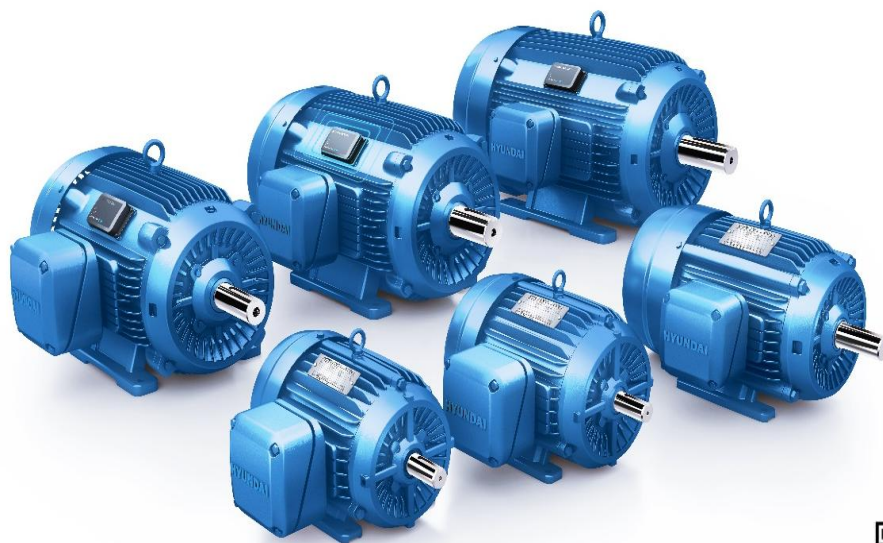
Customer :

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.	HES10-12-254/6JM	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA					
Frame Size		256JM		Rated Output		7.5 kW 10 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	11.0 A	13.8 A	27.6 A
Insulation Class		F			Locked-rotor**	680 %	680 %	680 %
Temp. Rise at full load (by resistance method)			Efficiency					
	at 1.0 S.F	80 deg. C			50% Load	88.0 %		
Motor Location		☐ Indoor ☐ Outdoor			75% Load	90.0 %		
Altitude		Less than 1,000 meter			100% Load	91.0 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)				
Ambient Temp.		40 deg. C (Max.)			50% Load	0.600		
Duty Type		Continuous (S1)			75% Load	0.700		
Service Factor		1.15			100% Load	0.750		
Mounting		B35		Speed at Full Load		1175 r.p.m		
Bearing	Type	Anti-Friction		Torque				
	DE/N-DE	6310ZC3 / 6309ZC3			Full Load	44.97 lb.ft		
	Lubricant	Grease(Polyrex-EM)			Locked-rotor**	170 %		
External Thrust		Not applicable			Breakdown**	250 %		
Coupling Method		☒ Direct ☐ V-belt		Moment of Inertia (J)				
Shaft Extension		Single			Load(Max.)	173.035 lb.ft2		
Terminal Box	Main	Cast Iron			Motor	3.086 lb.ft2		
	Aux.	No		Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing				64 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-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
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.

MAIN NAMEPLATE

4.72

2.36

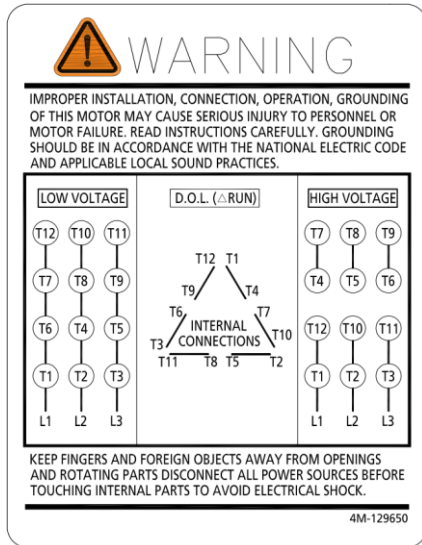
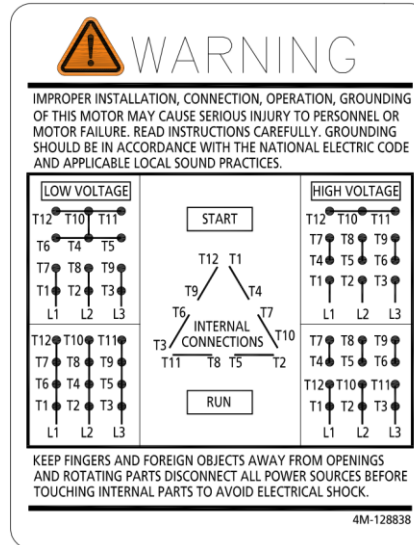
CROWN TRITON G2															
Premium Efficiency AC 3 Phase Motor						C Energy Verified		US		CC038A					
10HP 6P 230/460V				Cat. No.		HES10-12-254/6JM									
Model HLS256PR335V				INS. Class		F		HD-F1		Amps		27.6/13.8A			
Type HLS		Duty CONT		Code J		Amb. 40°C		Hertz		60Hz					
Frame 256JM		Encl. TEFC		S.F. 1.15		RPM 1175		NEMA Nom. Eff.		91.0%					
Bearing		Drive 6310ZC3		S.F.1.25 (When 100HP or less, Temp Rise F & Non-Hazardous)				3/4 Eff.		90.0%					
		Opp. 6309ZC3		S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)				NEMA Design		B Torque					
Usable at		50Hz 10HP 380V 17.6A 970rpm S.F.: 1.15 Eff.: 89.5% Code: G													
		50Hz 10HP 400/415V 17.5/17.6A 975/975rpm S.F.: 1.15 Eff.: 89.5/89.5% Code: H/J													
CSA Certified for		Model -		Type PJP		Temp. Code (sine wave)		Frame		140~320FR		360~400FR		440FR	
		CLASS I, Div. 2, Gr. A, B, C & D		CLASS II, Div. 2 Gr. E, F & G				Amb. 40°C		T3C (160°C)		T3B (165°C)		T3A (180°C)	
		CLASS I, Zone 2, Gr. IIA, IIB, & IIC		(Gr. E : Up to 320FR)				Amb. 55°C		T3A (180°C)		T3A (180°C)		T3 (200°C)	
No. -				Date -				Weight		310 lb					

4M-137666

MARINE DUTY IEEE45

Made in Vietnam H4
Designed By HYUNDAI, Korea

WIRING DIAGRAM

D.O.L
(INVERTER & SOFT STARTER)WYE-DELTA
(Y-D)

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	NAMEPLATE DRAWING		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			
DSND BY	S.H.LEE	DATE	2024.06.07			
				REF. NO	4M-137666 / 4M-129650	Sheet No. of
				DWG NO	NP-HES10-12-254/6JM	Revision No. 0

Type : PJP

7.5kW 10HP 6 P 60 Hz

Full Load Torque : 44.97 lb.ft

Speed at Full Load : 1175 RPM

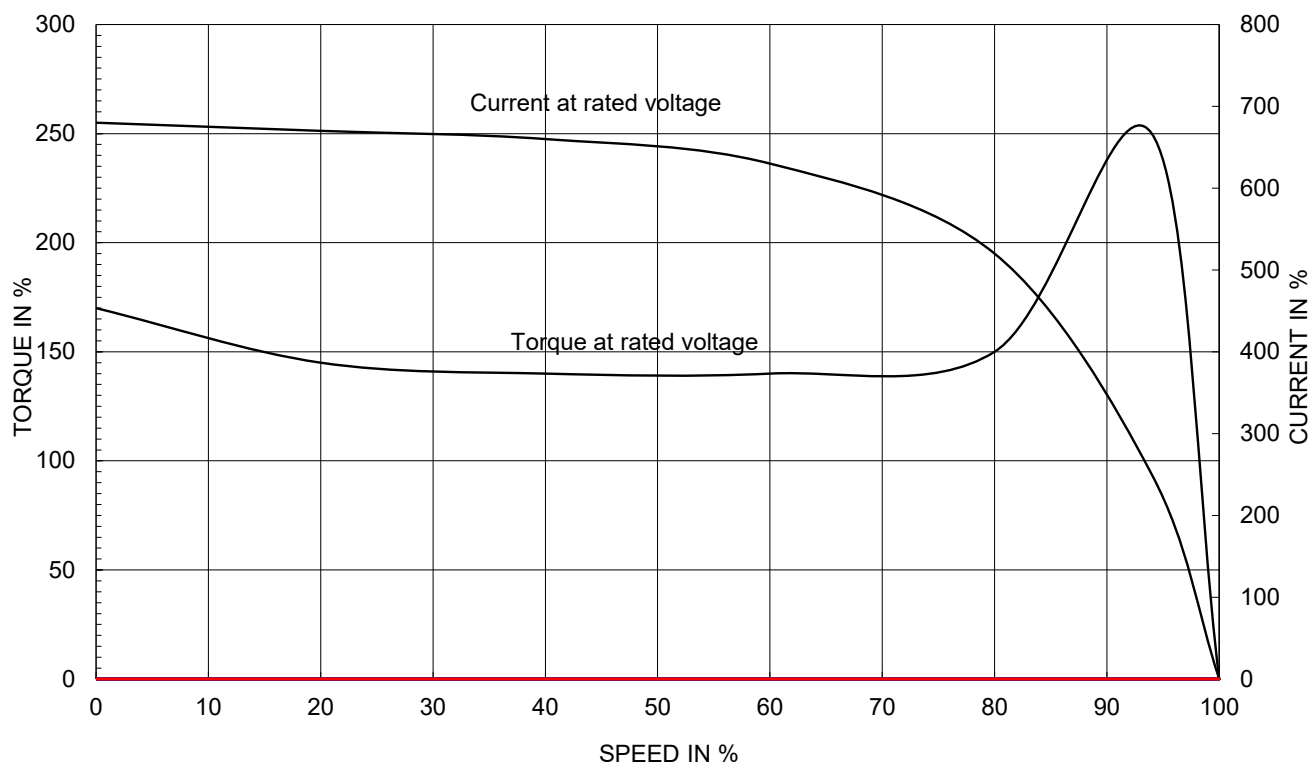
Load moment of Inertia (J) : 173.035 lb.ft²

Rated Voltage	575V	460V	230V
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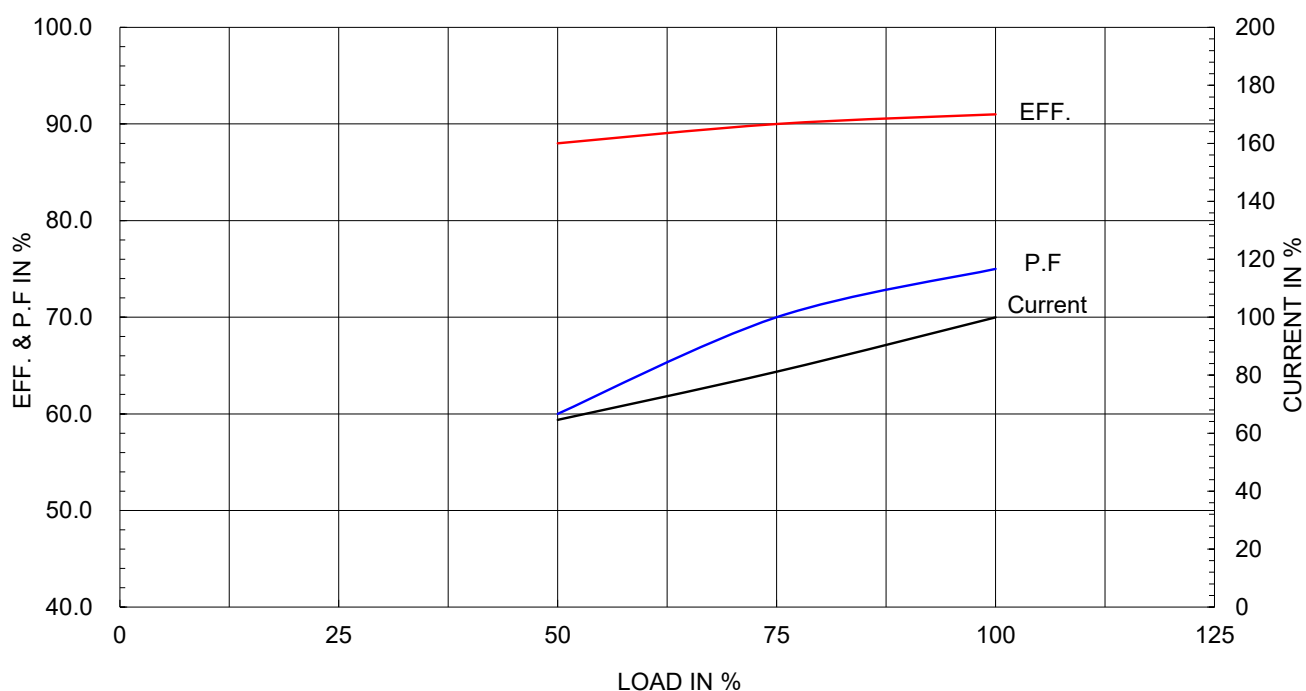
Motor moment of Inertia (J) : 3.086 lb.ft²

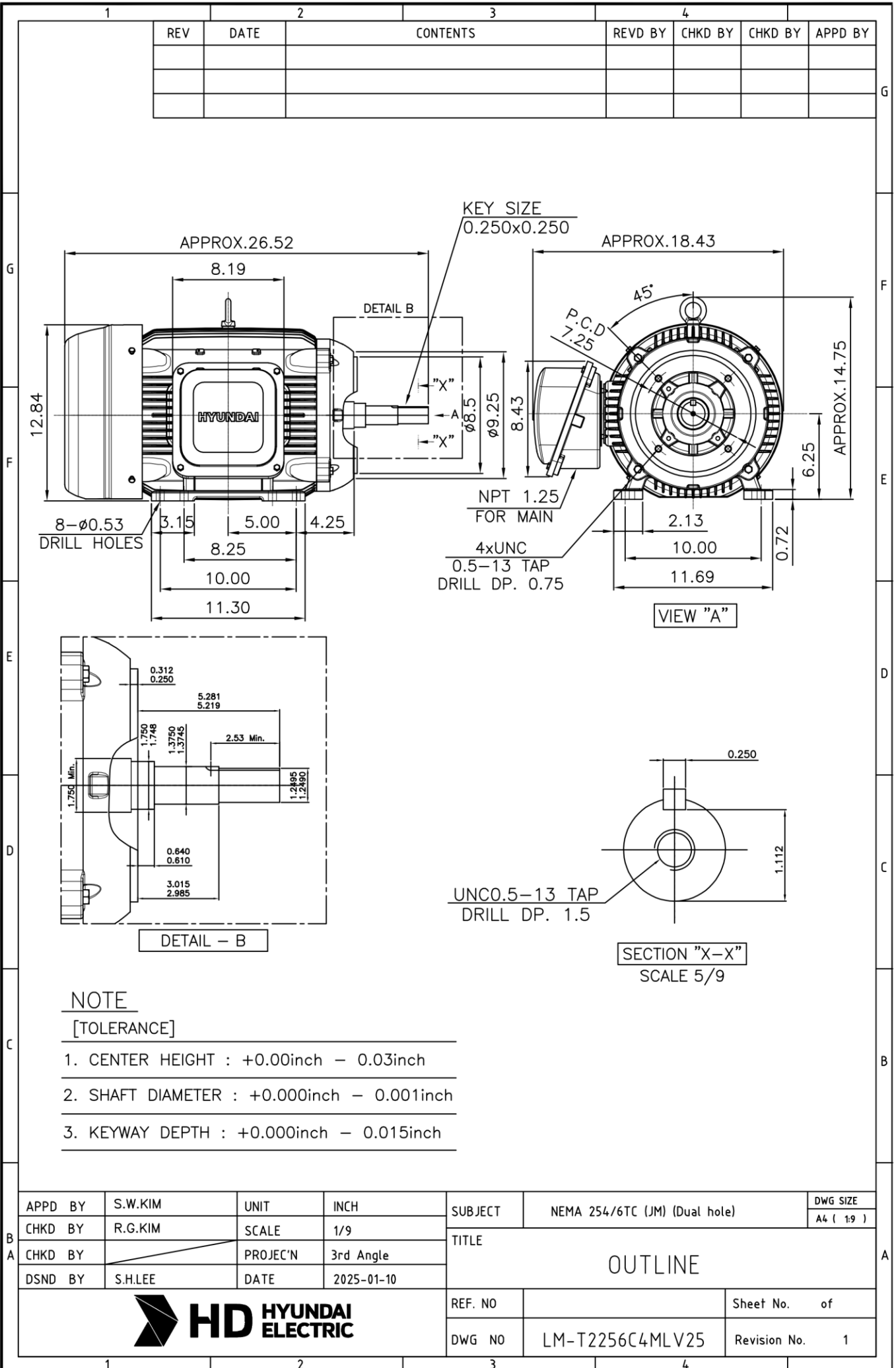
Full Load Current	11.0A	13.8A	27.6A
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SPEED VS TORQUE & CURRENT CURVE



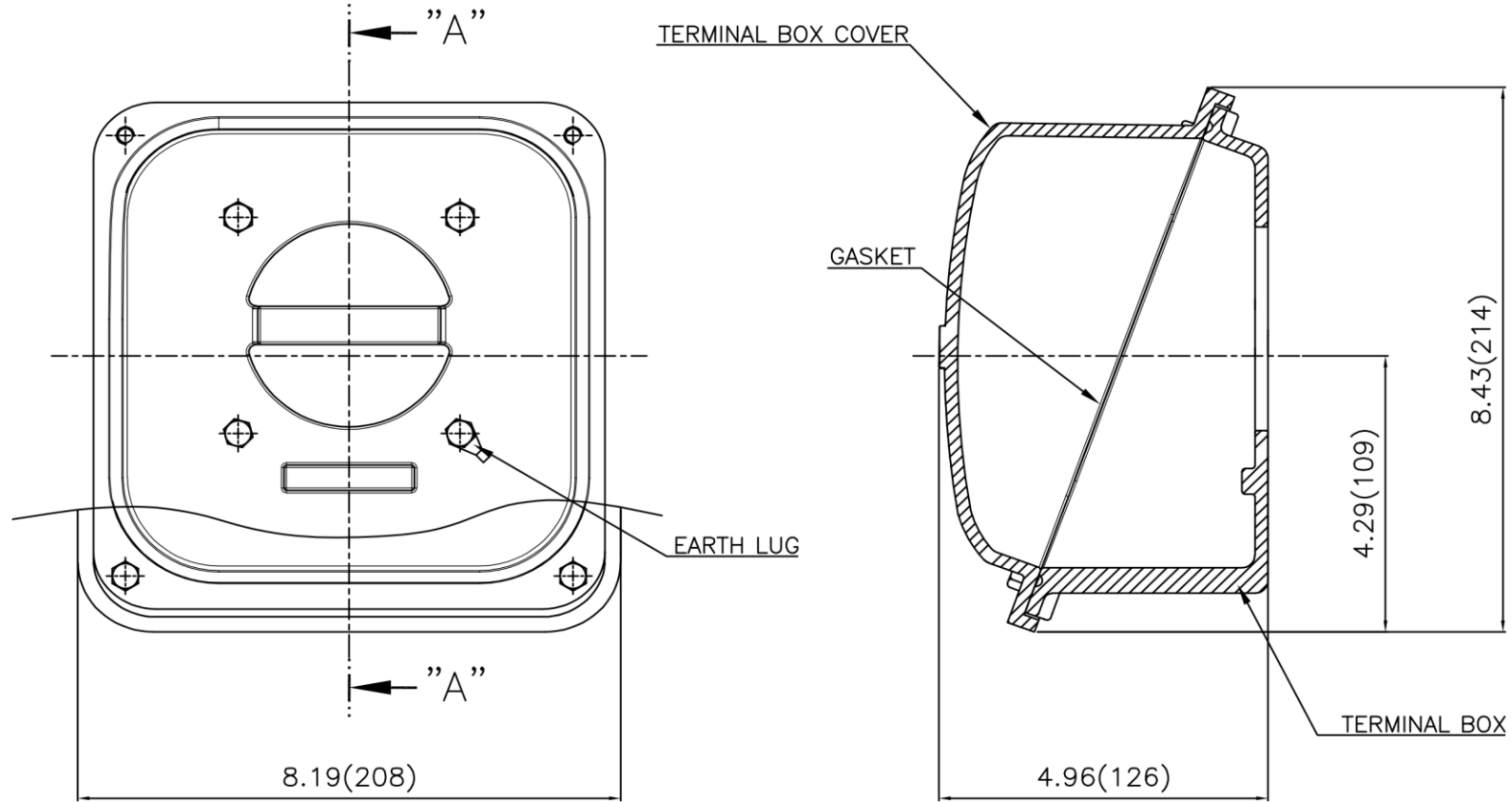
OUTPUT VS EFF., P.F & CURRENT CURVE





Cls. I&II, Div. 2

IEEE 841



SEC. "A"-"A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						

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. 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	REF. NO		Sheet No.	of
DSND BY	네슬의	DATE	2023-10-19	DWG NO	3M-248458	Revision No.	0

