

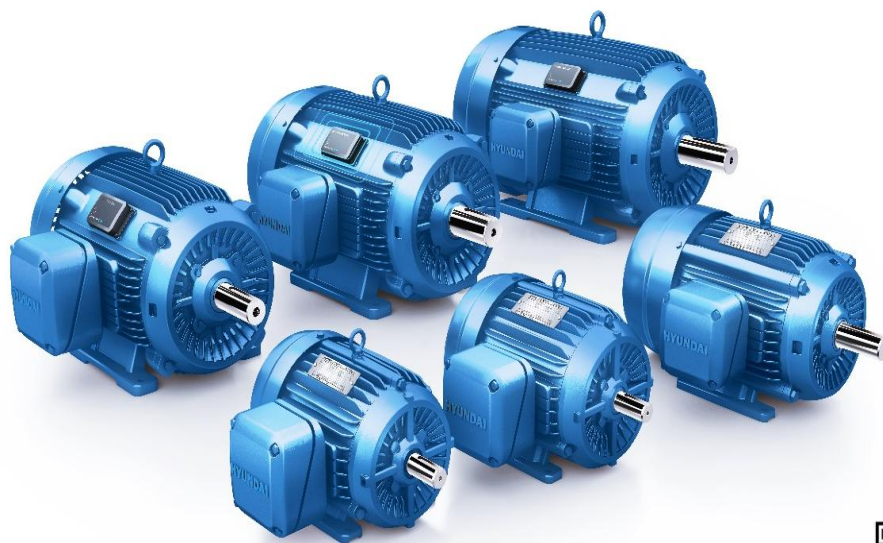
Customer :

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.	HES15-36-254/6JM		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	2				
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	13.8 A	17.2 A	34.5 A	
Insulation Class	F			Locked-rotor**	710 %	710 %	710 %	
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		0.730			
Duty Type	Continuous (S1)		75% Load		0.830			
Service Factor	1.15		100% Load		0.880			
Mounting	B35		Speed at Full Load		3550 r.p.m			
Bearing	Type	Anti-Friction	Torque					
	DE/N-DE	6310ZC3 / 6309ZC3	Full Load		21.83 lb.ft			
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**		150 %			
External Thrust	Not applicable		Breakdown**		250 %			
Coupling Method	☒ Direct ☐ V-belt		Moment of Inertia (J)					
Shaft Extension	Single		Load(Max.)		21.594 lb.ft2			
Terminal	Main	Cast Iron	Motor		1.163 lb.ft2			
Box	Aux.	No	Sound Pressure Level (No-load & mean value at 1m from motor)					
	Location	Refer to Outline Drawing			77 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.			
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 (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.

Type : PJP

11kW 15HP 2 P 60 Hz

Full Load Torque : 21.83 lb.ft

Speed at Full Load : 3550 RPM

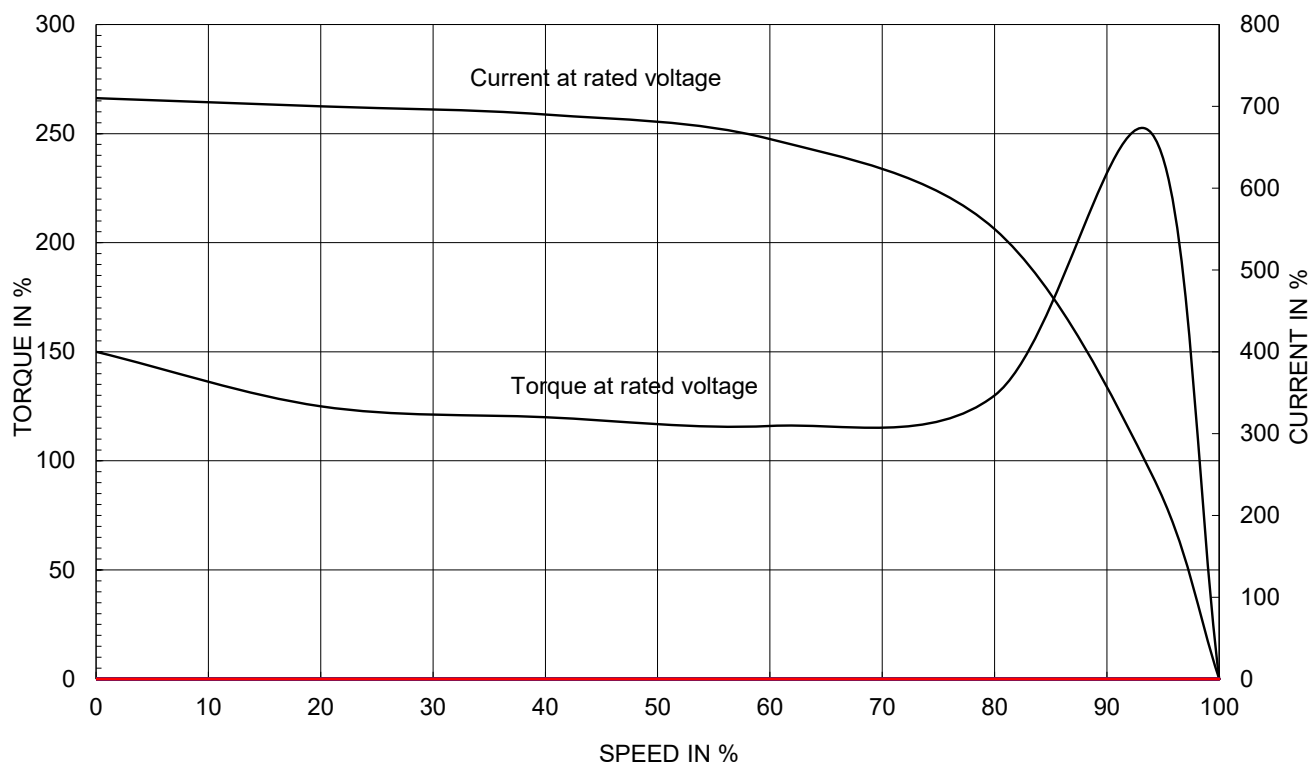
Load moment of Inertia (J) : 21.594 lb.ft²

Rated Voltage	575V	460V	230V
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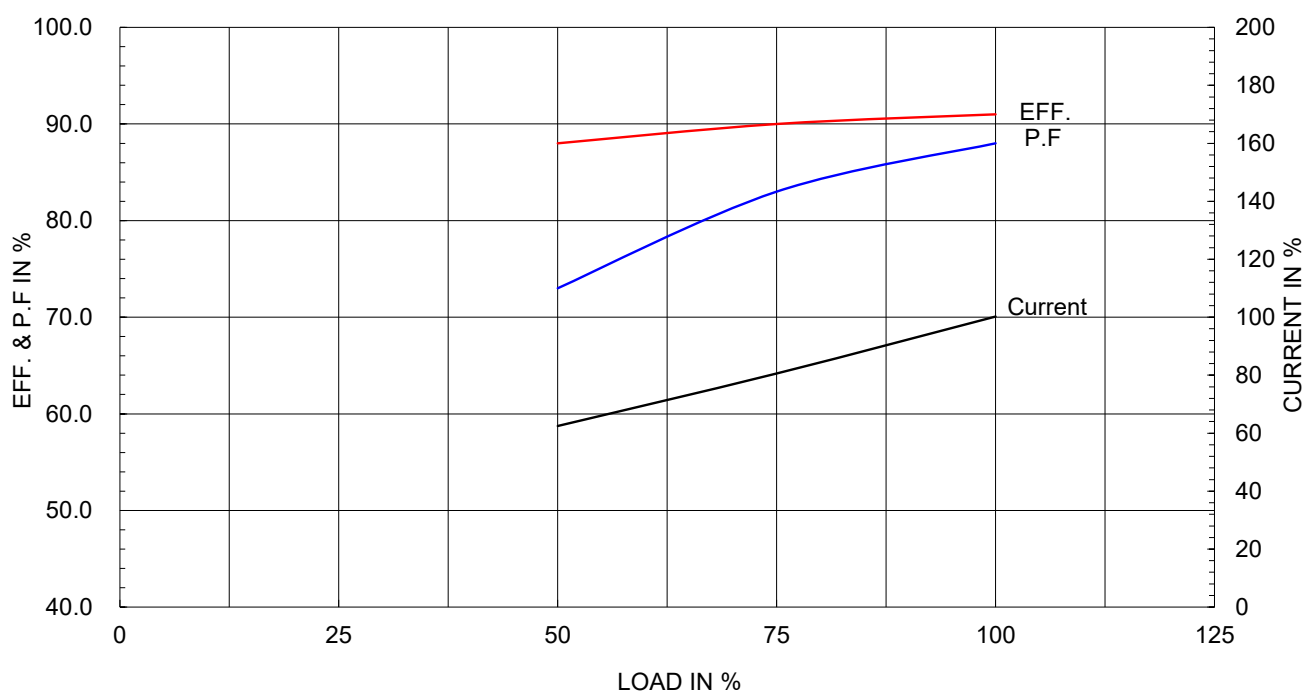
Motor moment of Inertia (J) : 1.163 lb.ft²

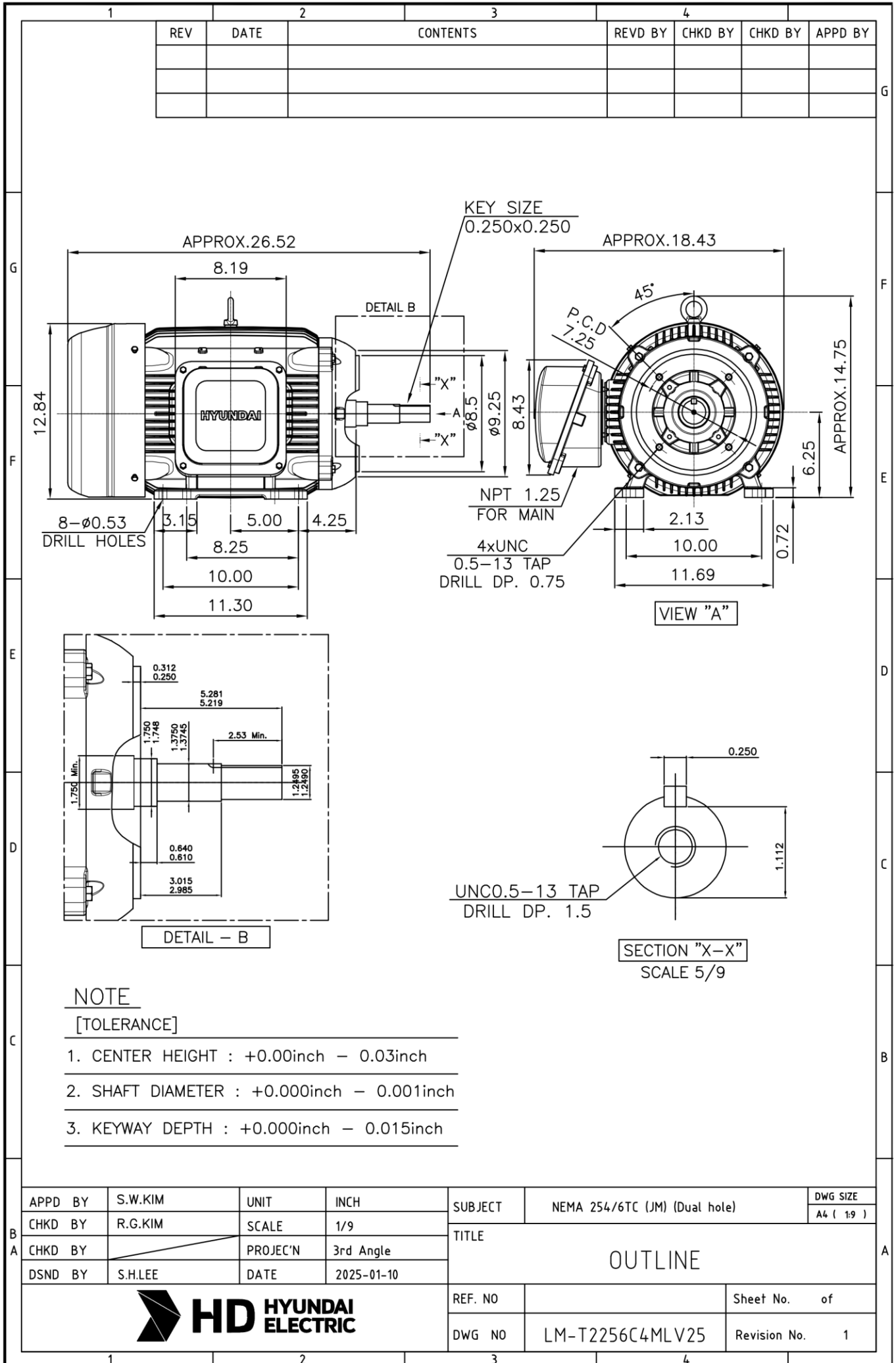
Full Load Current	13.8A	17.2A	34.5A
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SPEED VS TORQUE & CURRENT CURVE



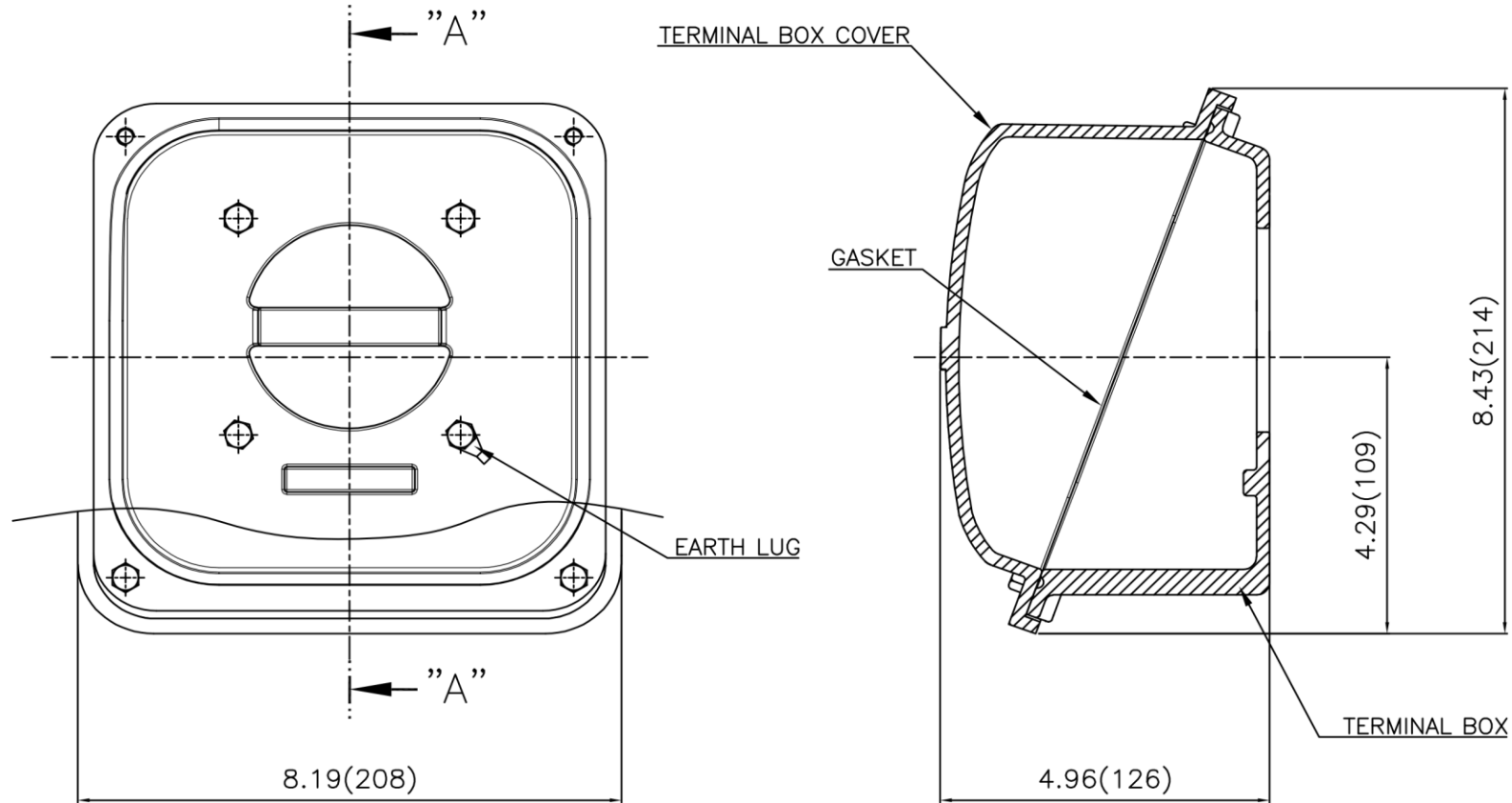
OUTPUT VS EFF., P.F & CURRENT CURVE





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	

