

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.	HES25-36-254/6JP	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA					
Frame Size		256JP		Rated Output		18.5 kW 25 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	22.8 A	28.5 A	56.9 A
Insulation Class		F			Locked-rotor**	700 %	700 %	700 %
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		80 deg. C		50% Load		88.7 %		
Motor Location		☐ Indoor ☐ Outdoor		75% Load		90.7 %		
Altitude		Less than 1,000 meter		100% Load		91.7 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)				
Ambient Temp.		40 deg. C (Max.)		50% Load		0.740		
Duty Type		Continuous (S1)		75% Load		0.840		
Service Factor		1.15		100% Load		0.890		
Mounting		B35		Speed at Full Load		3550 r.p.m		
Bearing	Type	Anti-Friction		Torque				
	DE/N-DE	6310ZC3 / 6309ZC3		Full Load		36.71 lb.ft		
	Lubricant	Grease(Polyrex-EM)		Locked-rotor**		140 %		
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 Box	Main	Cast Iron		Motor		1.163 lb.ft2		
	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-T2256C4JLV25 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

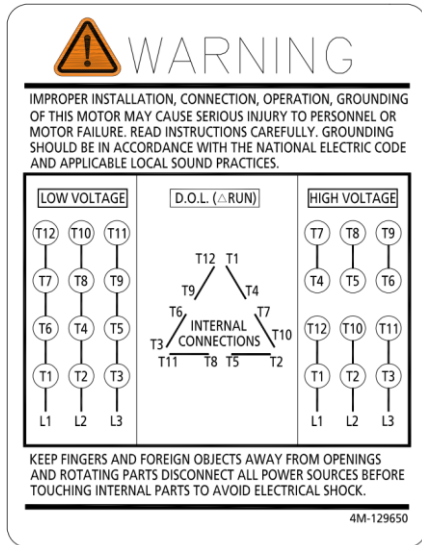
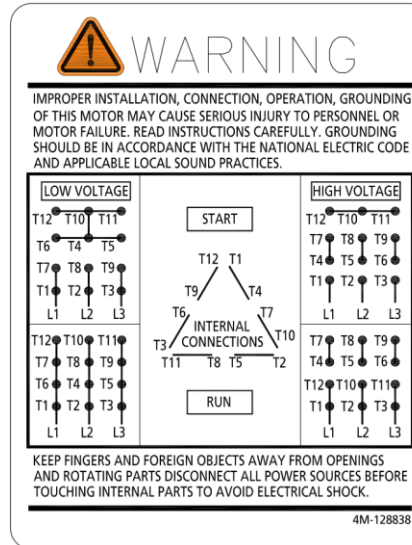
CROWN TRITON G2 Premium Efficiency AC 3 Phase Motor UL US Energy Verified CC038A CE											
25HP 2P 230/460V				Cat. No. HES25-36-254/6JP							
Model HLS256PR135V				INS. Class F HD-F1		Amps 56.9/28.5A					
Type HLS		Duty CONT		Code H Amb. 40°C		Hertz 60Hz					
Frame 256JP		Encl. TEFC		S.F. 1.15 RPM 3550		NEMA Nom. Eff. 91.7%					
Bearing		Drive 6310ZC3		S.F.1.25 (When 100HP or less, Temp Rise F & Non-Hazardous)			3/4 Eff. 90.7%				
		Opp. 6309ZC3		S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)			NEMA Design B Torque				
Usable at		50Hz 25HP 380V 34.9A 2930rpm S.F.: 1.0 Eff.: 90.7% Code: F									
		50Hz 25HP 400/415V 33.1/31.9A 2940/2945rpm S.F.: 1.0 Eff.: 91.2/91.5% Code: G/G									
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 (Gr. E : Up to 320FR)				Amb. 40°C T3C (160°C) T3B (165°C) T3A (180°C)			
		CLASS I, Zone 2, Gr. IIA, IIB, & IIC				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	TITLE NAMEPLATE DRAWING		A4 (1:1)
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-HES25-36-254/6JP	Revision No. 0

Type : PJP

18.5kW 25HP

2 P

60 Hz

Full Load Torque : 36.71 lb.ft

Speed at Full Load : 3550 RPM

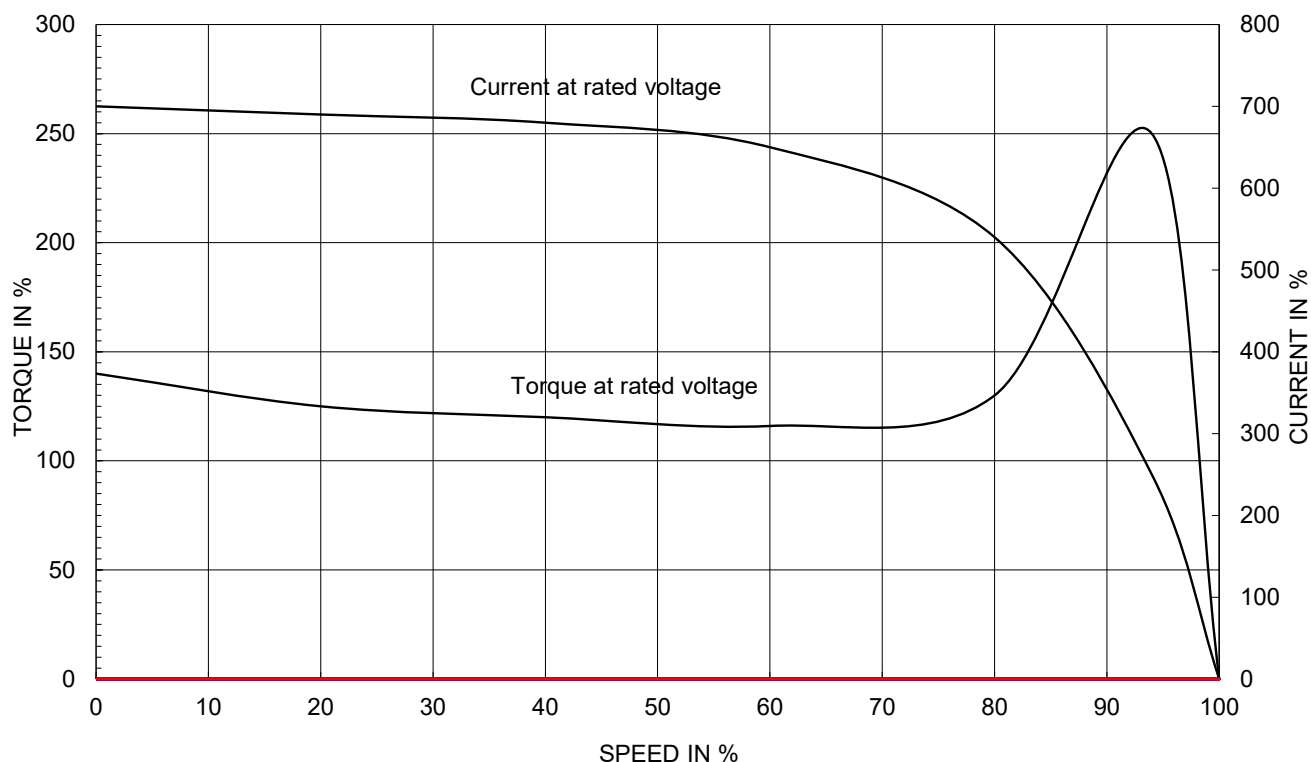
Load moment of Inertia (J) : 21.594 lb.ft²

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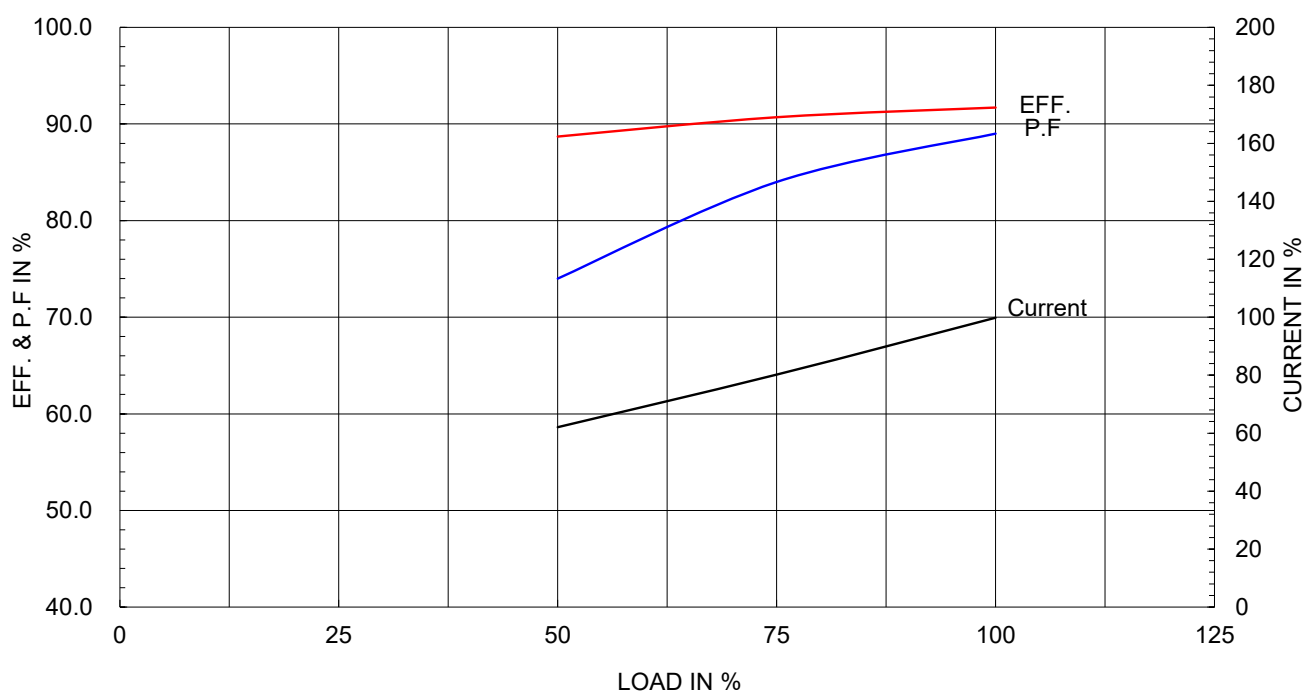
Motor moment of Inertia (J) : 1.163 lb.ft²

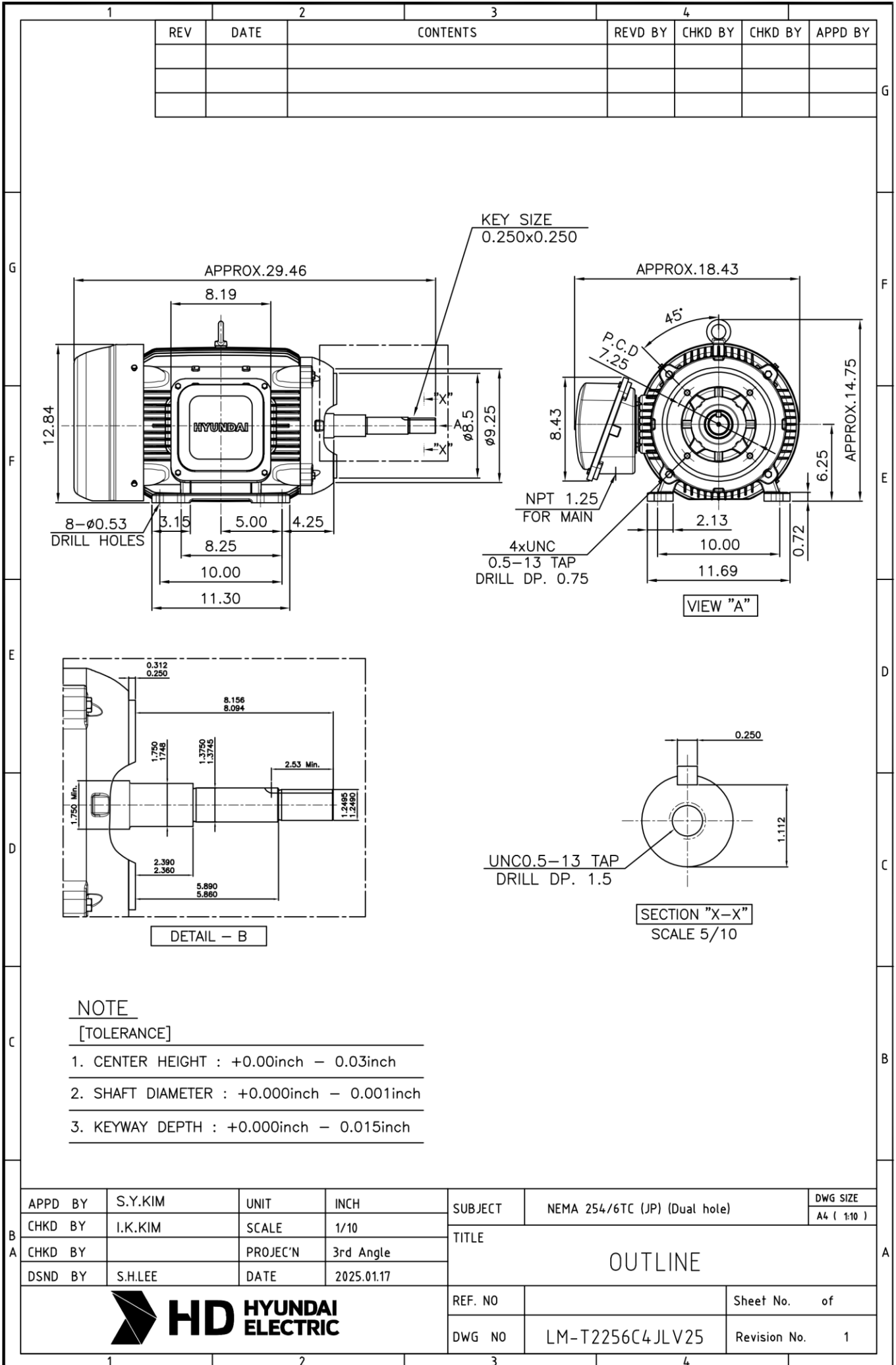
Full Load Current	22.8A	28.5A	56.9A
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SPEED VS TORQUE & CURRENT CURVE



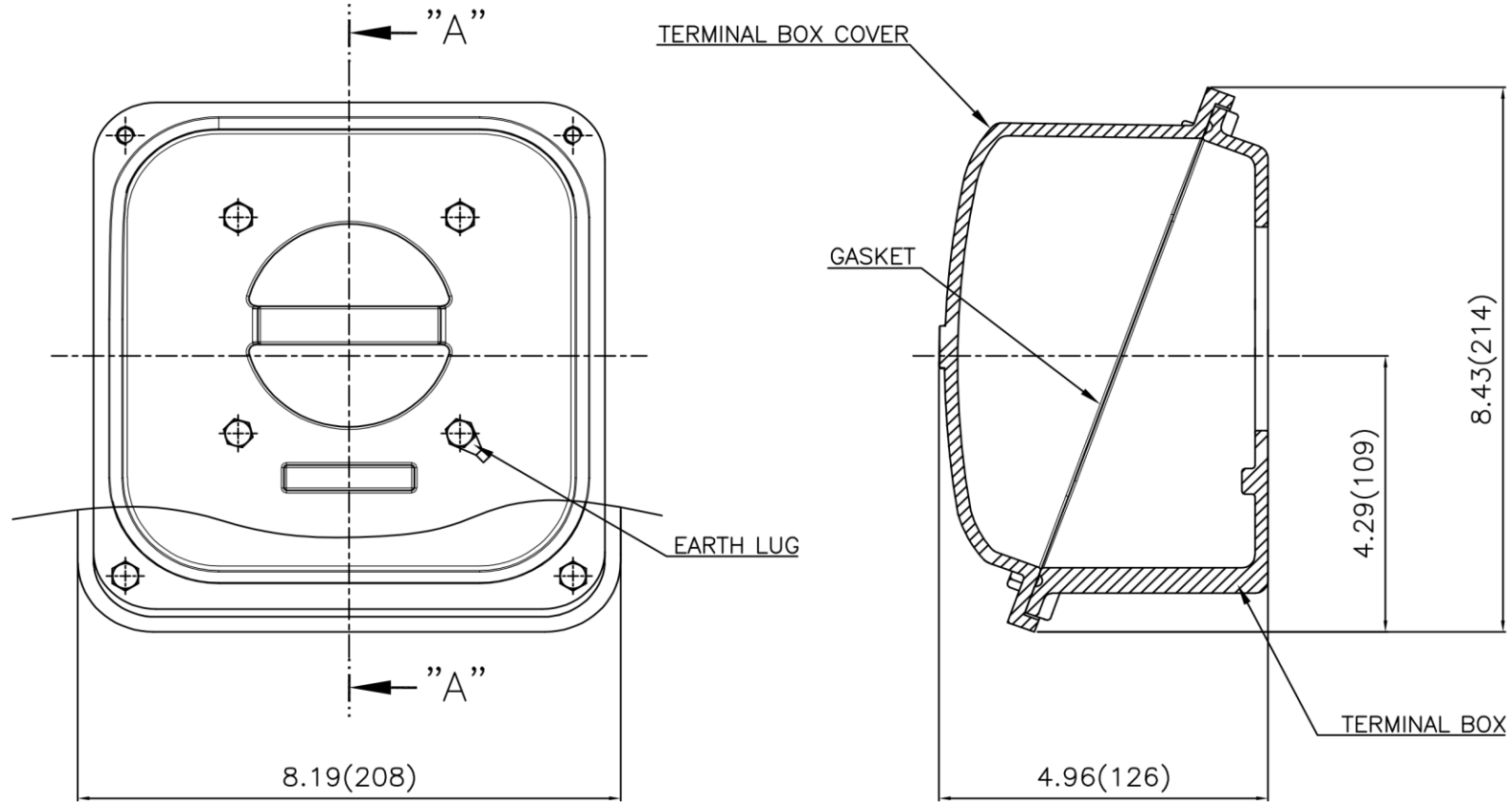
OUTPUT VS EFF., P.F & CURRENT CURVE





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		일반기계공차	
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

