

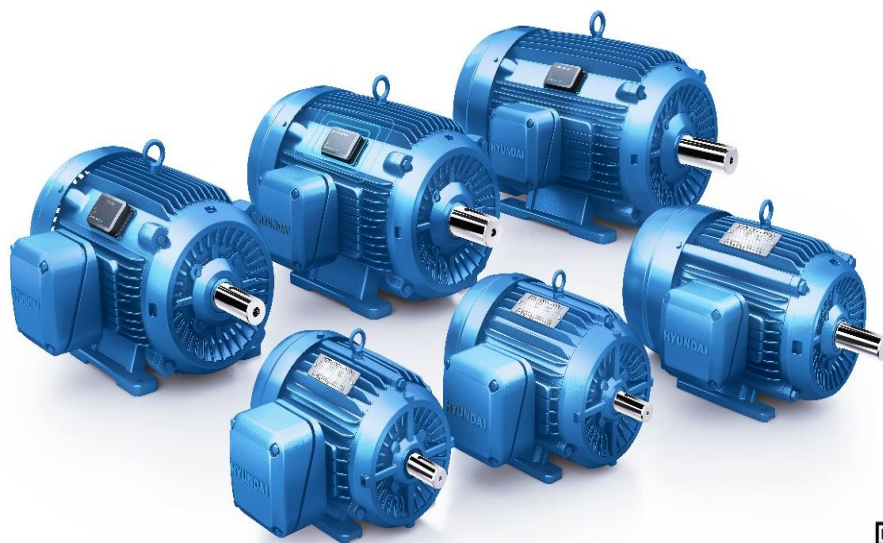
Customer :

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.	HES5-12-213/5JP	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA					
Frame Size		215JP		Rated Output		3.7 kW 5 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	6.10 A	7.63 A	15.3 A
Insulation Class		F			Locked-rotor**	680 %	680 %	680 %
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						
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		1180 r.p.m		
Bearing	Type	Anti-Friction		Torque				
	DE/N-DE	6309ZZC3 / 6208ZZC3						
	Lubricant	Grease(Polyrex-EM)						
External Thrust		Not applicable		Moment of Inertia (J)				
Coupling Method		☒ Direct ☐ V-belt						
Shaft Extension		Single						
Terminal Box	Main	Cast Iron		Sound Pressure Level (No-load & mean value at 1m from motor)				
	Aux.	No						
	Location	Refer to Outline Drawing						
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-T2215C4JLV25	190 lb.		
		REMARK					
SPARE PARTS		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.

Type : PJP

3.7kW 5HP 6 P 60 Hz

Full Load Torque : 22.09 lb.ft

Speed at Full Load : 1180 RPM

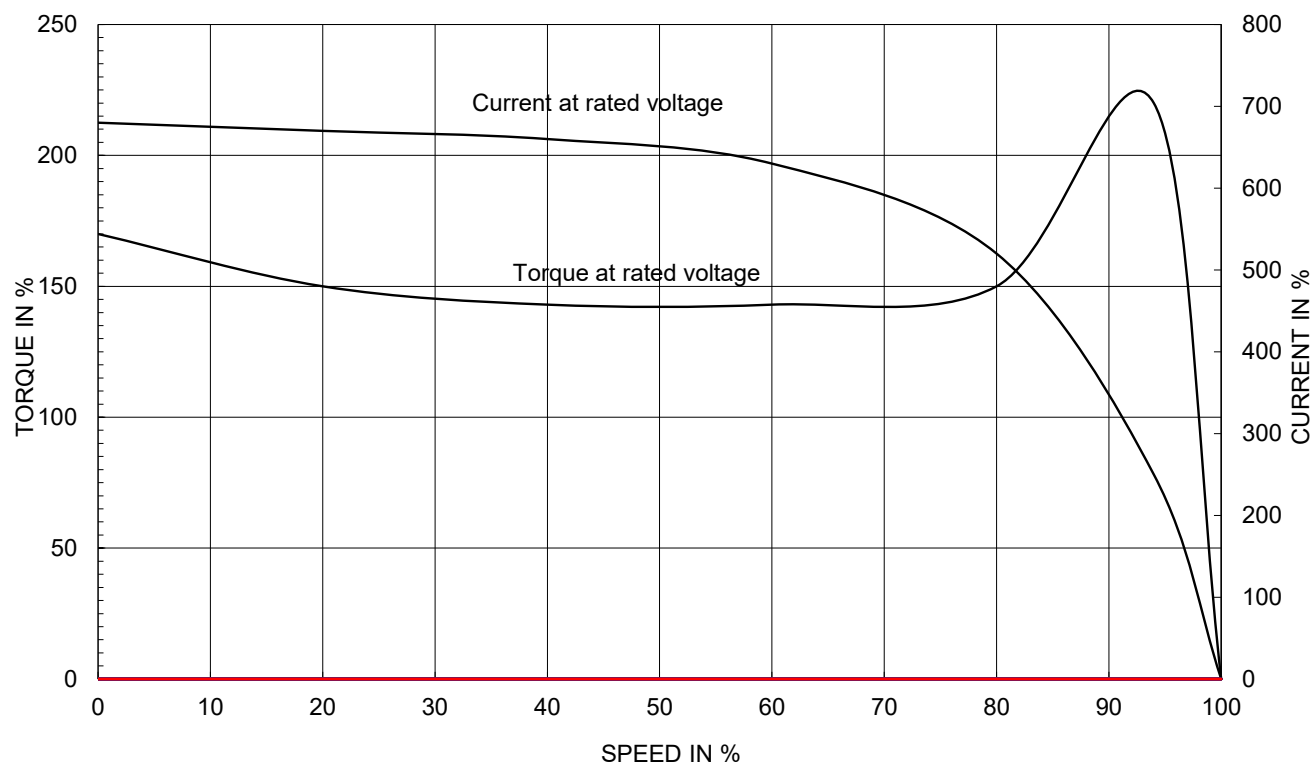
Load moment of Inertia (J) : 96.700 lb.ft2

Rated Voltage	575V	460V	230V
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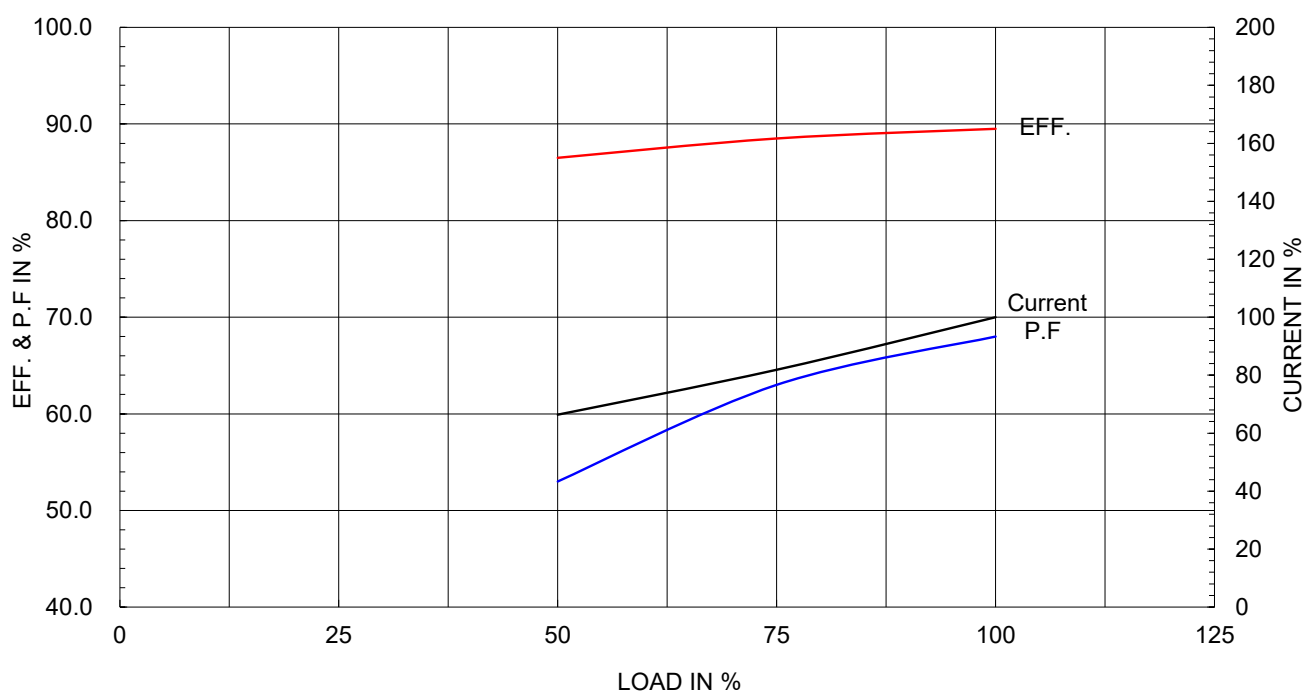
Motor moment of Inertia (J) : 1.234 lb.ft2

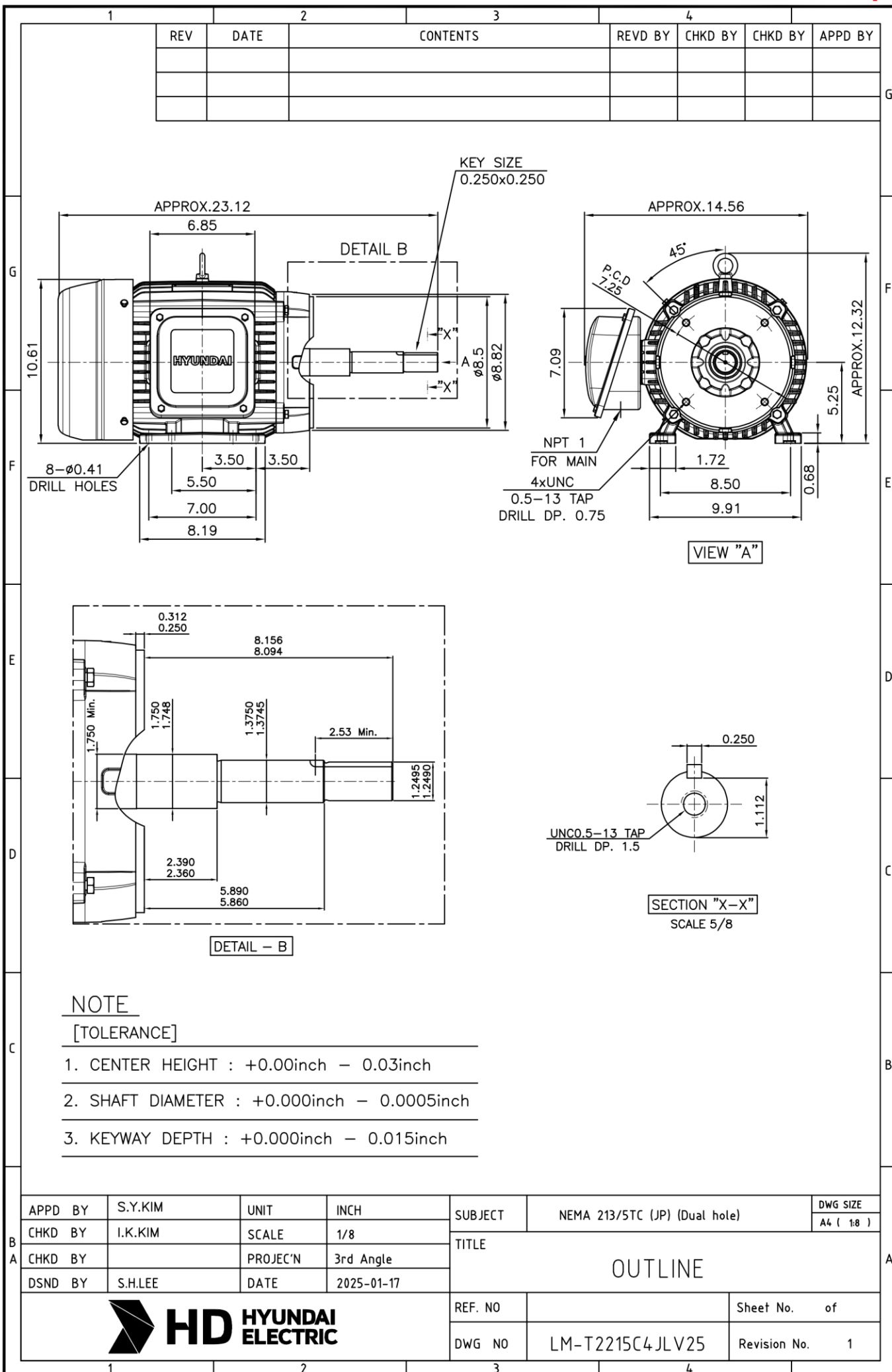
Full Load Current	6.10A	7.63A	15.3A
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SPEED VS TORQUE & CURRENT CURVE

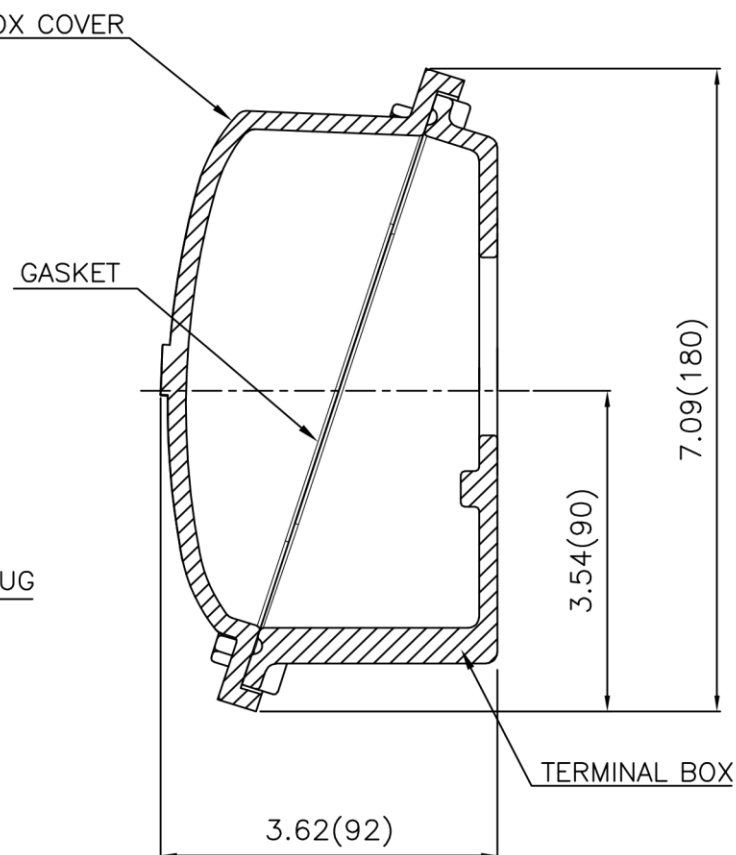
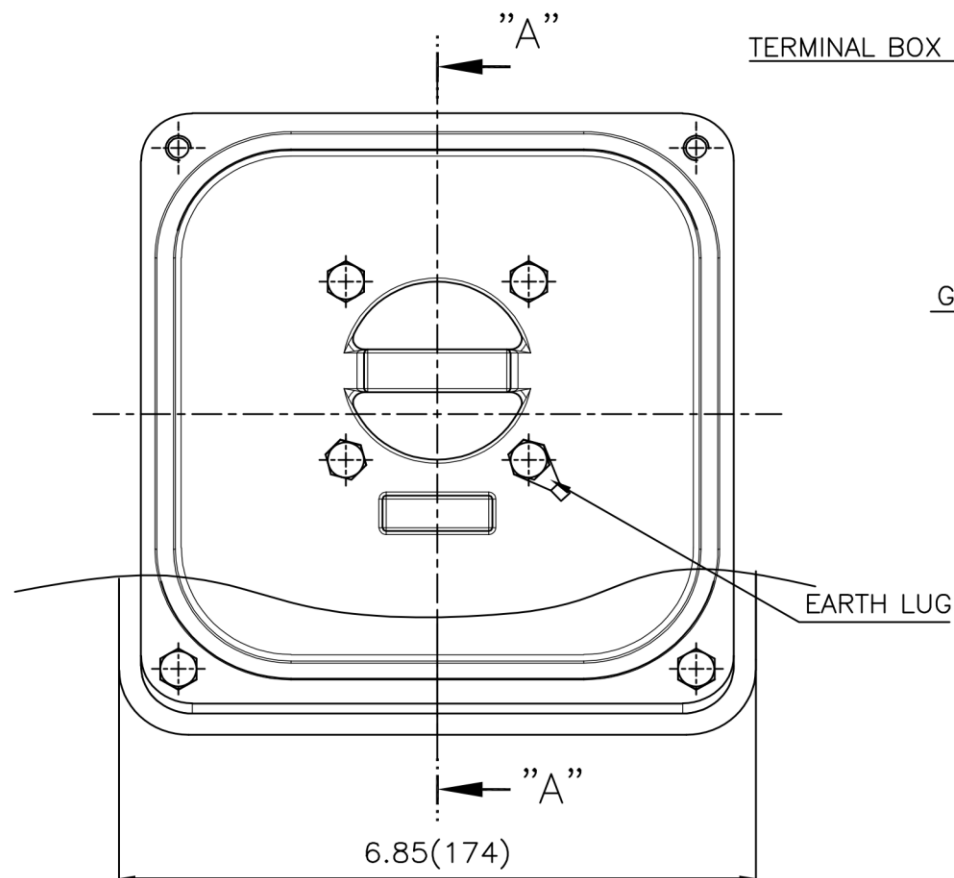


OUTPUT VS EFF., P.F & CURRENT CURVE





Cls. I&II, Div. 2
IEEE 841



SEC. "A" - "A"

	▽	50S
	▽▽	12.5S
	▽▽▽	3.2S
A	▽▽▽▽	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 TERMINAL BOX ASS'Y					A3 (1:1.5)		
CHKD	BY	R.G.KIM	PROJEC'N	3rd Angle								
DSND	BY	박승원	DATE	2023-10-19	 HD HYUNDAI ELECTRIC							
				REF. NO							Sheet No.	of
				DWG NO						3M-248457	Revision No.	0