

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.	HES15-36-213/5JM	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA							
Frame Size		215JM		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	15.2 A	19.0 A	37.9 A		
Insulation Class		F			Locked-rotor**	700 %	700 %	700 %		
Temp. Rise at full load (by resistance method)				Efficiency						
at 1.0 S.F		95 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		3500 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-T2215C4MLV25 190 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 -. 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

3.94

CROWN TRITON G2 Premium Efficiency AC 3 Phase Motor		Cat. No. HES15-36-213/5JM			
15HP	2P	230/460V	Amps 37.9/19.0A	Type HLS	Amb. 40°C
Frame 215JM	Duty CONT	Encl. TEFC	Model HLS215PR135V	NEMA Nom. Eff. 91.0%	
RPM 3500	Hertz 60Hz	S.F. 1.15	INS. Class F	3/4 Eff. 90.0%	
	Drive 6309ZZC3	S.F.1.25 (When 100HP or less, Temp Rise F & Non-Hazardous)		NEMA Design B Torque	
	Opp. 6208ZZC3	S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)		Code H	
	Usable at	50Hz 10HP 380V 14.9A 2920rpm S.F.: 1.15 Eff.: 90.1% Code: H			
		50Hz 10HP 400/415V 14.3/14.1A 2930/2935rpm S.F.: 1.15 Eff.: 90.1/90.1% Code: J/K			
	CSA Certified for	Model -	Type PJP	Temp. Code	Frame 140-320FR
		CLASS I, Div. 2, Gr. A, B, C & D	CLASS II, Div. 2, Gr. E, F & G	Amb. 40°C	T3C (160°C)
		CLASS I, Zone 2, Gr. IIA, IIB & IIC	(Gr. E : up to 320FR)	Amb. 55°C	T3A (180°C)
	No. -	Date -	Weight 190 lb		
	4M-137664	Made in Vietnam H4	Designed By HYUNDAI, Korea		
	CC038A	MARINE DUTY IEEE45			

WIRING DIAGRAM

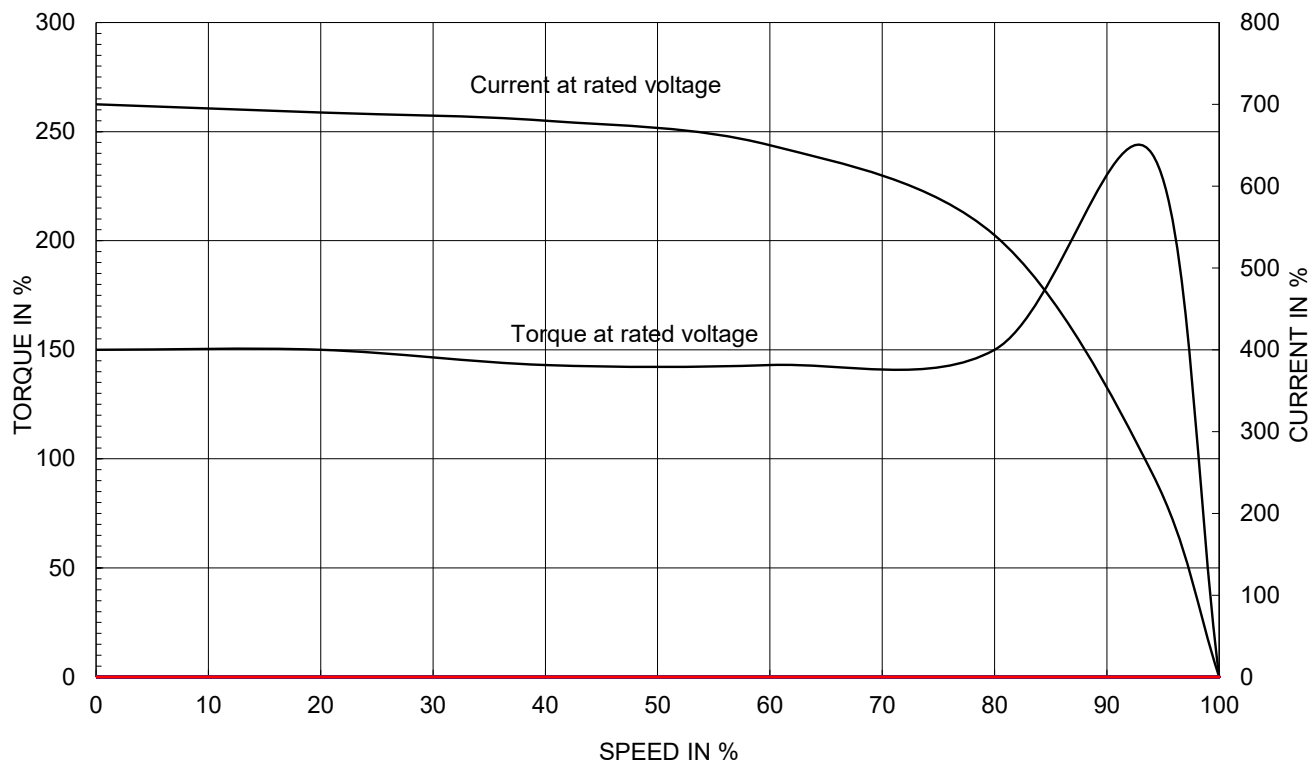
D.O.L (INVERTER & SOFT STARTER)	WYE-DELTA (Y-D)
WARNING IMPROPER INSTALLATION, CONNECTION, OPERATION, GROUNDING OF THIS MOTOR MAY CAUSE SERIOUS INJURY TO PERSONNEL OR MOTOR FAILURE. READ INSTRUCTIONS CAREFULLY. GROUNDING SHOULD BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL SOUND PRACTICES. LOW VOLTAGE T4 T5 T6 T7 T8 T9 T1 T2 T3 L1 L2 L3 INTERNAL CONNECTIONS T1 T4 T5 T2 T7 T8 T9 T6 T3 HIGH VOLTAGE T4 T5 T6 T7 T8 T9 T1 T2 T3 L1 L2 L3 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	TITLE		
DSND BY	S.H.LEE	DATE	2024.06.07	NAMEPLATE DRAWING		
				REF. NO	4M-137664 / 4M-128845	Sheet No. of
				DWG NO	NP-HES15-36-213/5JM	Revision No. 0

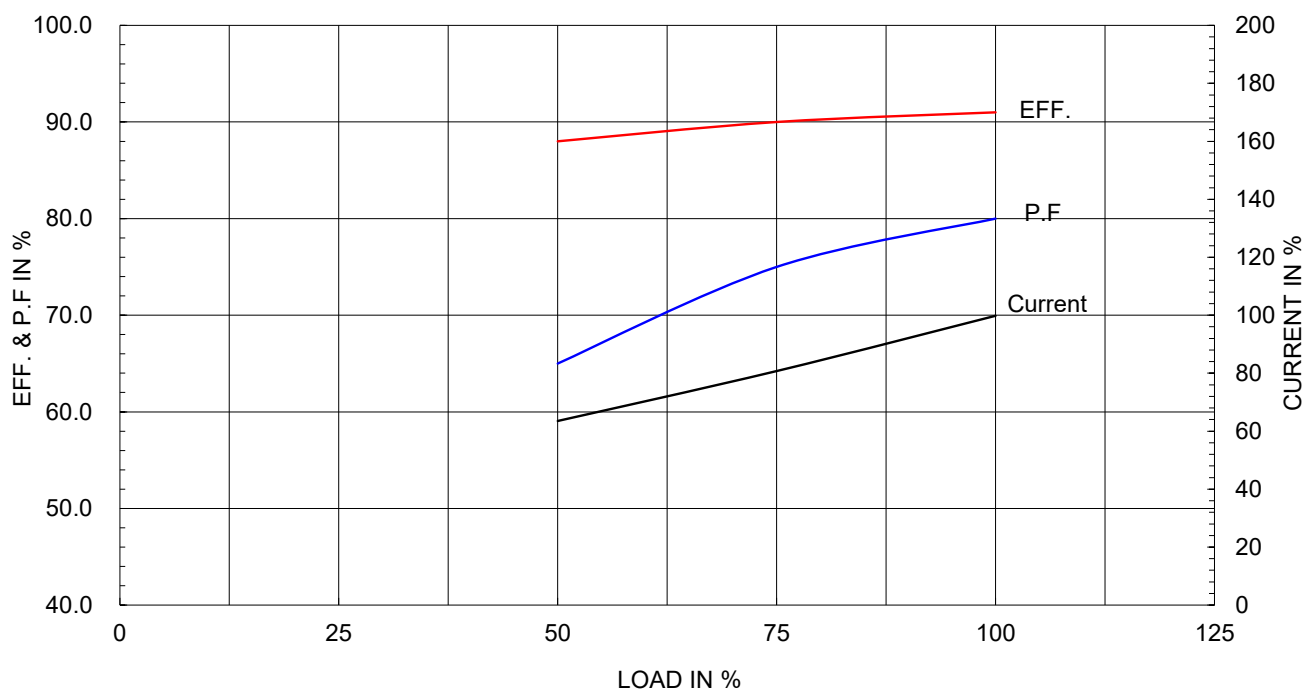
Type :	PJP	
Full Load Torque :	22.14	lb.ft
Load moment of Inertia (J) :	11.159	lb.ft2
Motor moment of Inertia (J) :	0.451	lb.ft2

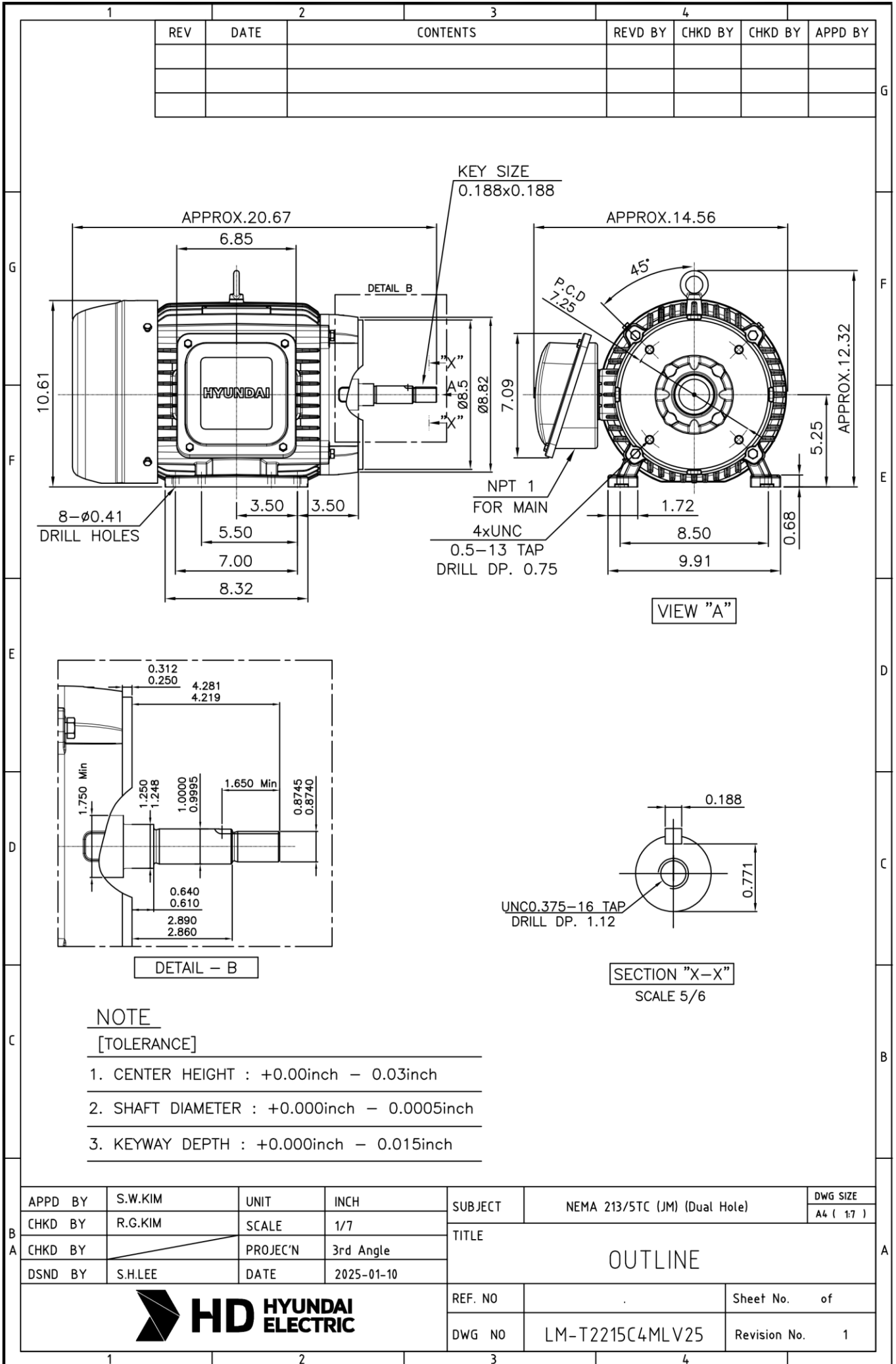
11kW 15HP	2 P	60 Hz
Speed at Full Load : 3500 RPM		
Rated Voltage	575V	460V 230V
Full Load Current	15.2A	19.0A 37.9A

SPEED VS TORQUE & CURRENT CURVE

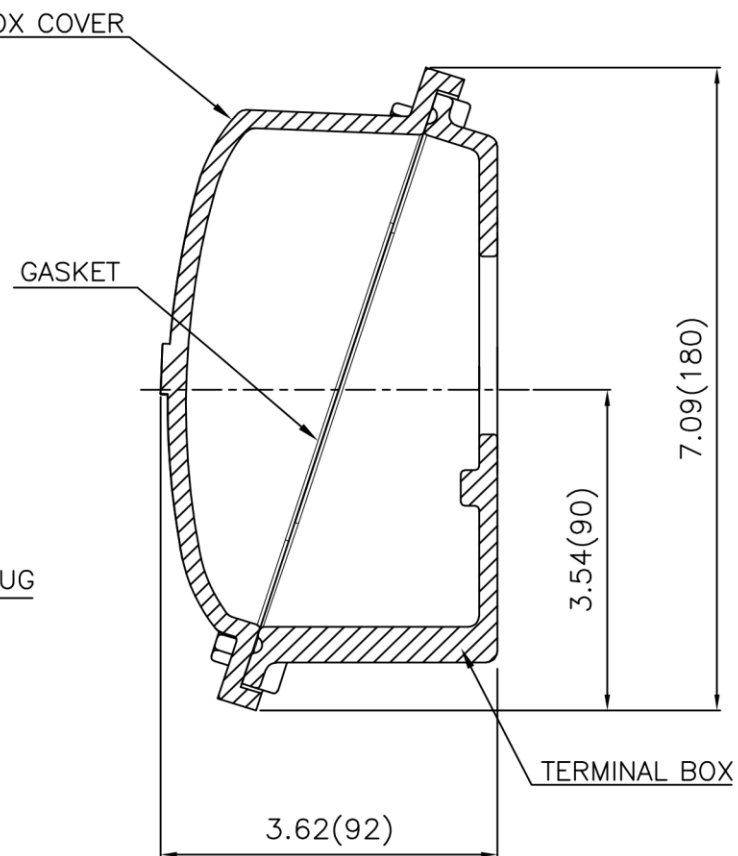
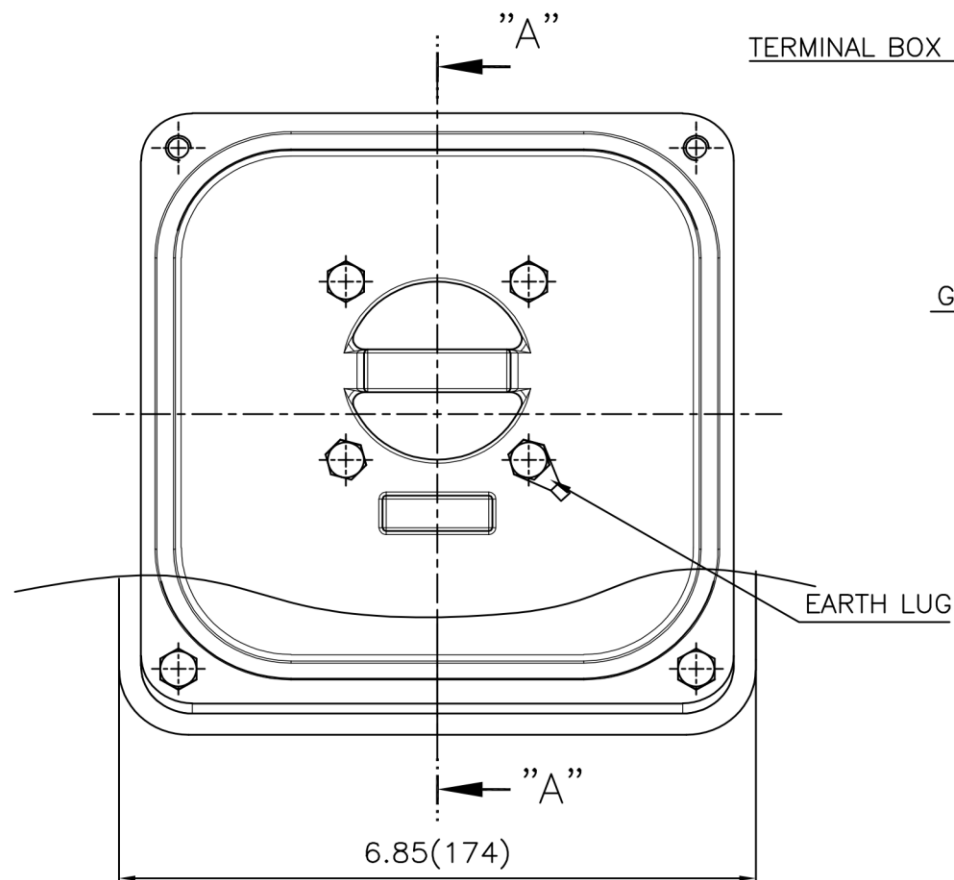


OUTPUT VS EFF., P.F & CURRENT CURVE





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				