

Customer :  
Project Name :  
Project No. :  
Revision No. :

# SPECIFICATION for INDUCTION MOTOR



0		For Bidding			
No.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY



# AC INDUCTION MOTOR DATA SHEET

## IEEE841 TYPE

Catalog No.	IEEE300-12-L449T-IBBRSRSH	Item No.		Rev. No.	[ ]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA					
Frame Size	L449T		Rated Output	225 kW		300 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	280.7 A	350.9 A		
Insulation Class	F			Locked-rotor**	675 %	675 %	675 %	
Temp. Rise at full load (by resistance method)			Efficiency					
at 1.0 S.F			80 deg. C					
Motor Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		50% Load		92.8 %			
Altitude	Less than 1,000 meter		75% Load		94.8 %			
Relative Humidity	Less than 80 %		100% Load		95.8 %			
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)					
Duty Type	Continuous ( S1 )		50% Load		0.690			
Service Factor	1.15		75% Load		0.790			
Mounting	B3		100% Load		0.840			
Bearing	Type	Anti-Friction	Speed at Full Load					
	DE/N-DE	NU322 / 6318C3-INS.	1185 r.p.m					
	Lubricant	Grease(Polyrex-EM)	Torque					
External Thrust	Not applicable		Full Load		1,337.6 lb.ft			
Coupling Method	<input type="checkbox"/> Direct <input type="checkbox"/> V-belt		Locked-rotor**		135 %			
Shaft Extension	Single		Breakdown**		220 %			
Terminal	Main	Cast Iron	Moment of Inertia (J)					
Box	Aux.	Yes	Load(Max.)		3,240.000 lb.ft2			
	Location	Refer to Outline Drawing	Motor		172.297 lb.ft2			
Application			Sound Pressure Level (No-load & mean value at 1m from motor)					
Area classification	Hazardous		80 dB(A)					
Type of Ex-Protection	Class I&II, Division 2		Vibration					
Applicable Standard	IEEE841, NEMA MG1, CSA C390		3.8 mm/sec (peak)					
<b>ACCESSORIES</b> *. B.T.D.(Pt 100 Ω at 0°C,Single) : 2EA/Motor *. W.T.D.(Pt 100 Ω at 0°C) : 2EA/Ph. *. Space Heater : 1EA/Motor			Permissible number of consecutive starts					
			Cold		2 times			
			Hot		1 time			
			Paint	Munsell No.	7.5BG6/1.5			
<b>SPARE PARTS</b>			<b>SUBMITTAL DRAWING</b>					
			Outline Dimension Drawing		Motor Weight(Approx.)			
			B3		LM-I044XB3U7001		3320 lb.	
<b>REMARK</b> 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. NDE side : Insulated bearing 4. CSA Certification -. Class I, Division 2, Group A, B, C & D; Temp code : T3 -. Class II, Division 2 Group F & G; Temp code : T3 5. Shaft material : AISI4140			Date					
			DSND		CHKD		CHKD	
			APPD					
			2024-07-13		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.

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REV	DATE	CONTENTS	REVD BY

4.72

## CROWN TRITON

### Premium Efficiency AC 3 Phase Motor


300HP	6P	460V	Cat. No.	IEEE300-12-L449T-IBBRSRSH			
Model	LATER		INS. Class	F	Amps	350.9	
Type	PJP	Duty	CONT	Code	G	Amb. 40°C	
Frame	L449T	Encl.	TEFC	S.F.	1.15	RPM 1185	
Bearing	Drive	NU322	S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)			3/4 Eff.	94.8%
	Opp.	6318C3-INS.				NEMA Design	B Torque
Usable at							
CSA Certified for	CLASS I, Div. 2, Gr. A, B, C & D		CLASS II, Div. 2, Gr. F & G		Temp. Code (sine wave)	Frame	L440FR - 500FR
	CLASS I, Zone 2, Gr. IIA, IIB, & IIC					Amb. 40°C	T3 (200°C)
						Amb. 55°C	T3 (200°C)
No.	-	Date	-	Weight	3320 lb		

**IEEE Std 841-2021**


4M-136054

**MARINE DUTY IEEE45**

Made in Korea H1



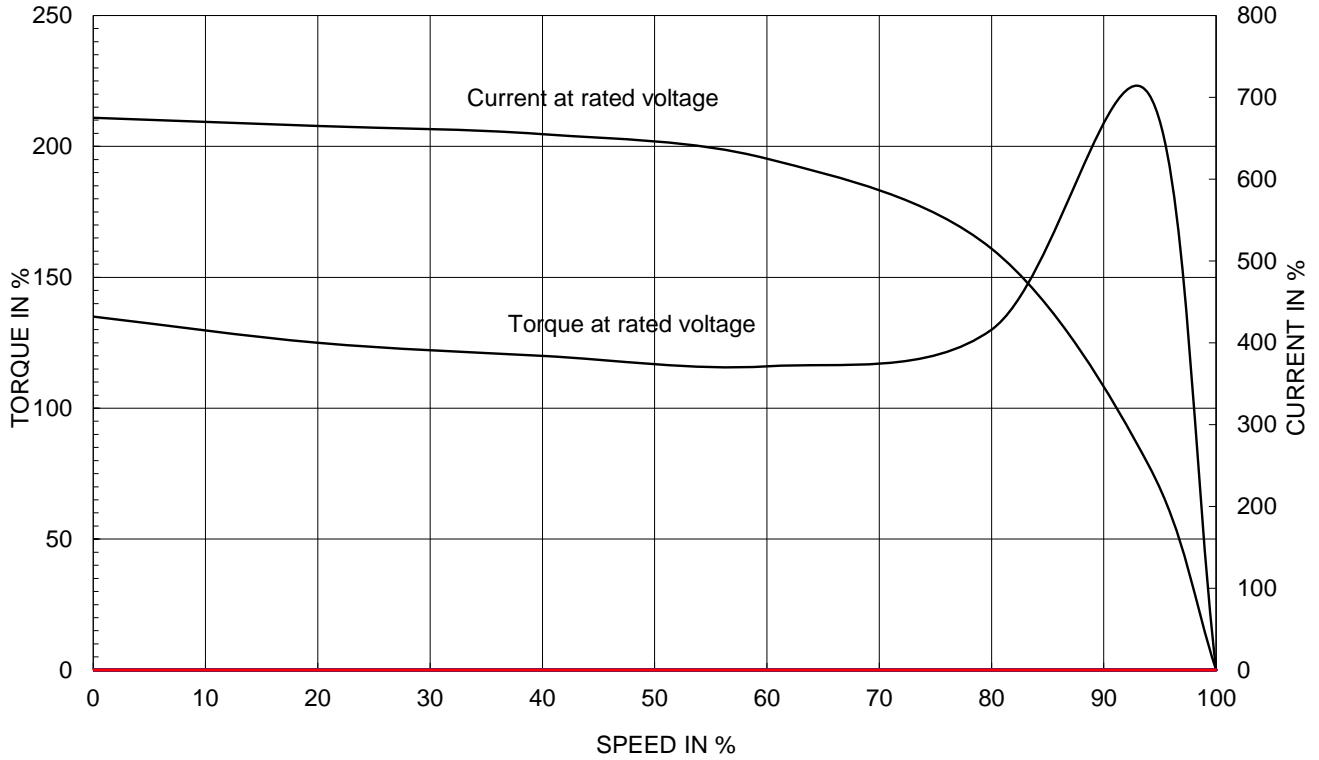
2.36

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 IEEE841 (XL)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 ( 1:1 )
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	TITLE <b>NAMEPLATE DRAWING</b>		
DSND BY	S.H.LEE	DATE	2024.06.07			
				REF. NO	<b>4M-136054</b>	Sheet No. of
				DWG NO	NP-IEEE300-12-L449T-IBBRSRSH	Revision No.

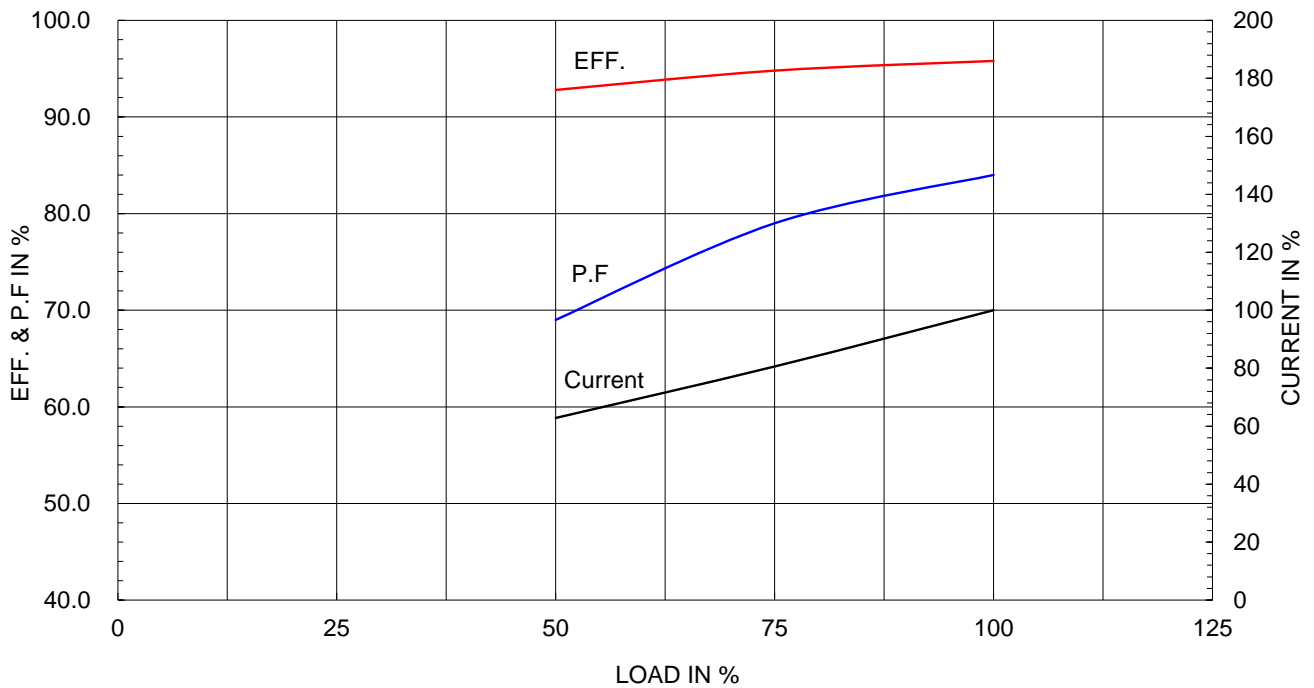
Type :	PJP
Full Load Torque :	1337.6 lb.ft
Load moment of Inertia (J) :	3240.000 lb.ft <sup>2</sup>
Motor moment of Inertia (J) :	172.297 lb.ft <sup>2</sup>

225kW 300HP	6 P	60 Hz
Speed at Full Load :		1185 RPM
Rated Voltage	575V	460V 230V
Full Load Current	280.7A	350.9A 701.9A

SPEED VS TORQUE & CURRENT CURVE

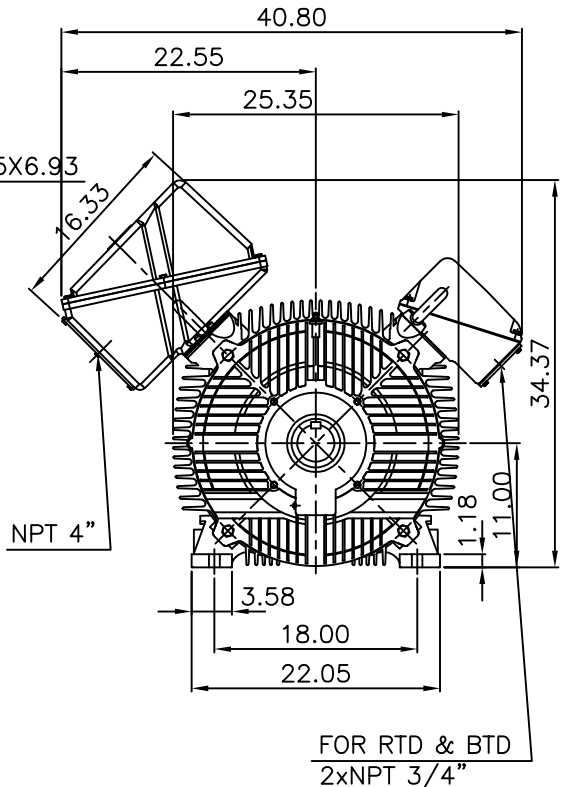
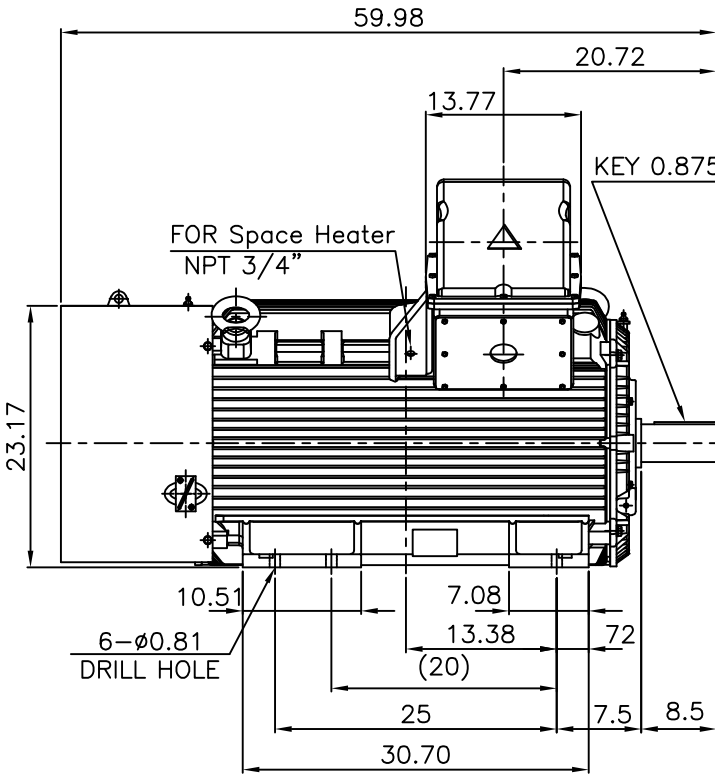


OUTPUT VS EFF., P.F & CURRENT CURVE



▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							

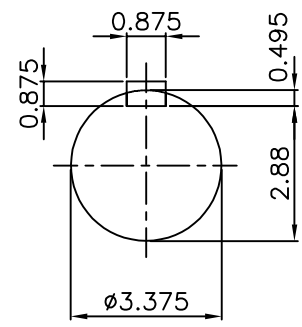
**IEEE841**



**NOTE**

1.TOLERANCE :

CENTER HEIGHT	11	+0.000	-0.060
SHAFT DIAMETER	ø3.375	+0.000	-0.001
KEYWAY WIDTH	0.875	+0.003	-0.000

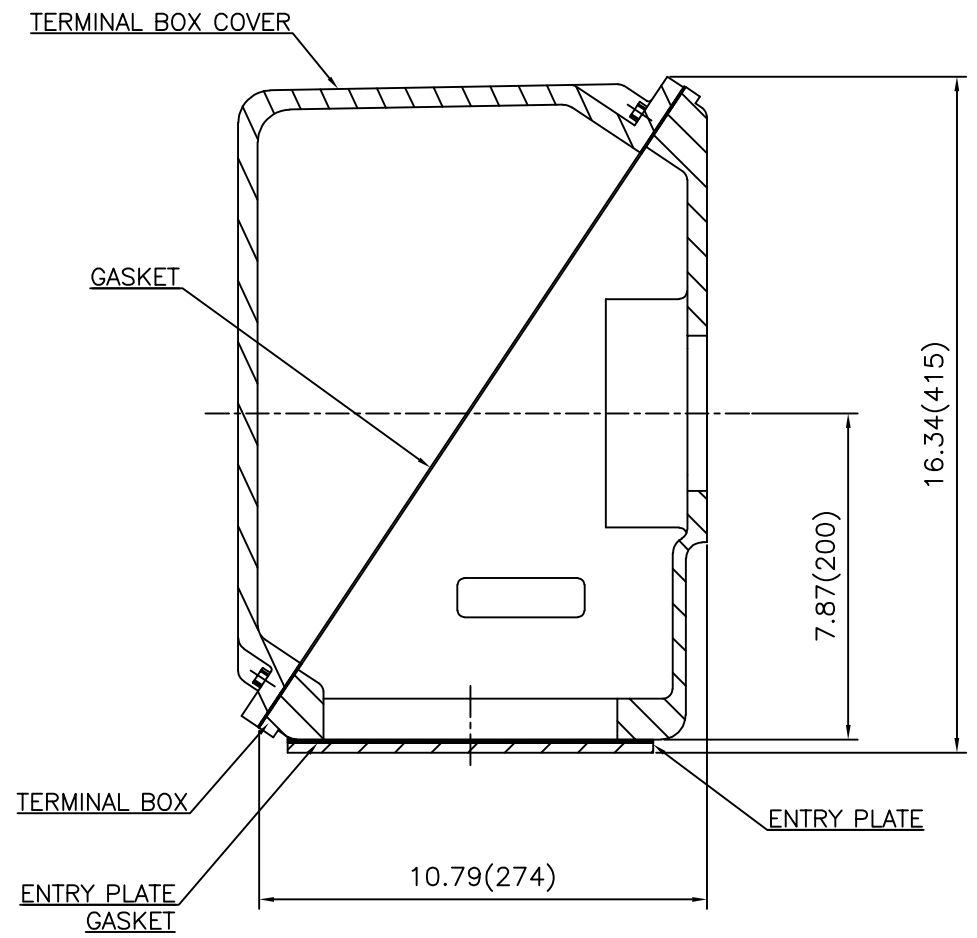
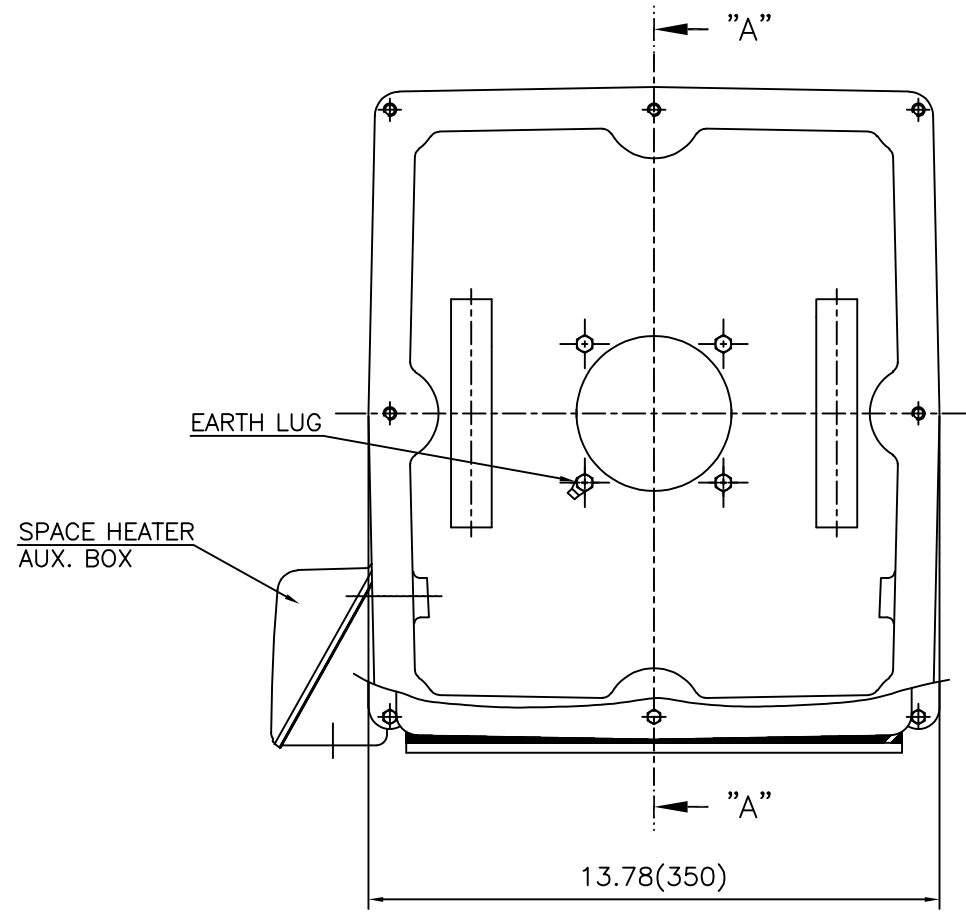


**VIEW "A"**

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	Fr.L449T	DWG SIZE	A4 (1:18)
CHKD BY	O.J.KIM	SCALE	1/18	TITLE	NEMA STD SHAFT(4140 SHAFT) OUTLINE		
CHKD BY	R.G.KIM	PROJEC'N	3각법(3rd Angle)	REF. NO		Sheet No.	of
DSND BY	H.K.LEE	DATE	2021-04-27	DWG NO	LM-1044XB3U7001	Revision No.	0



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SEC. "A" - "A"

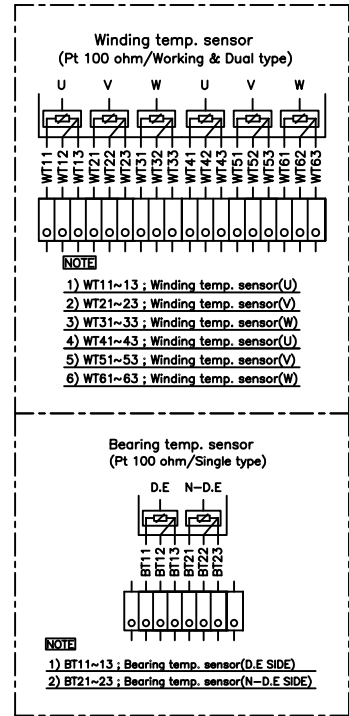
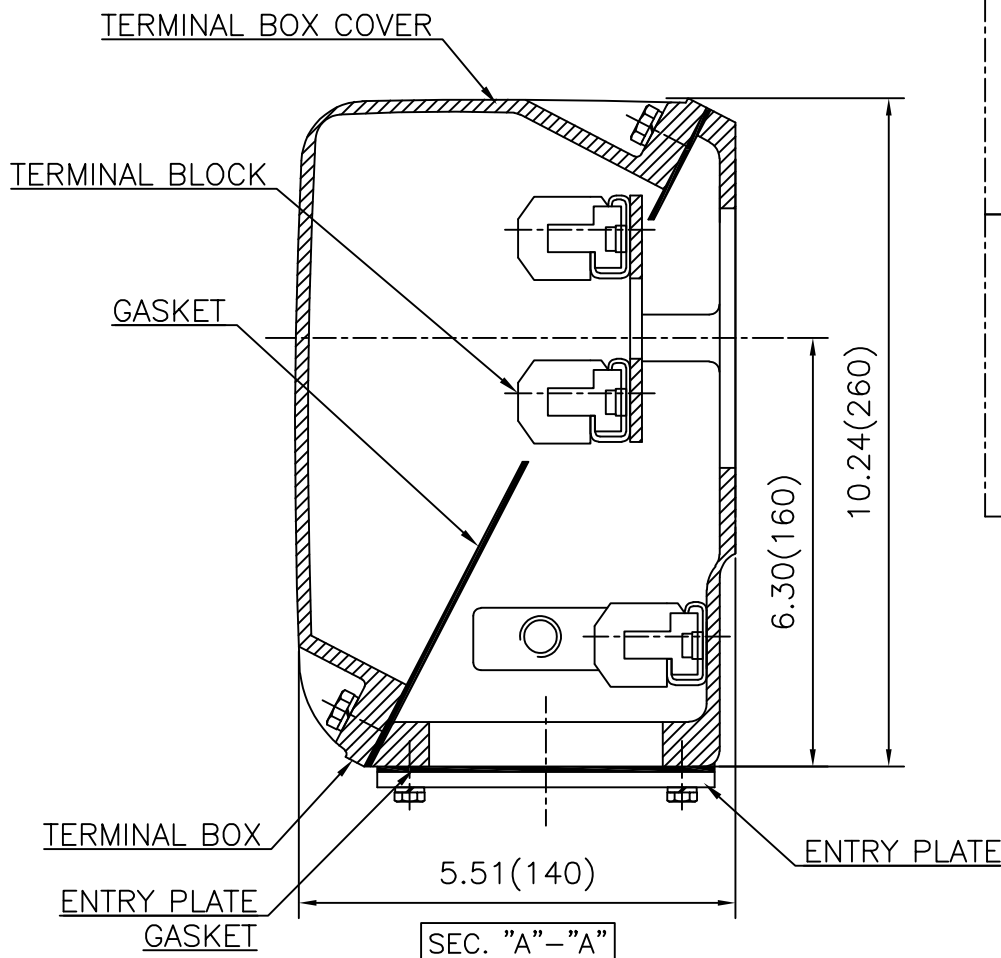
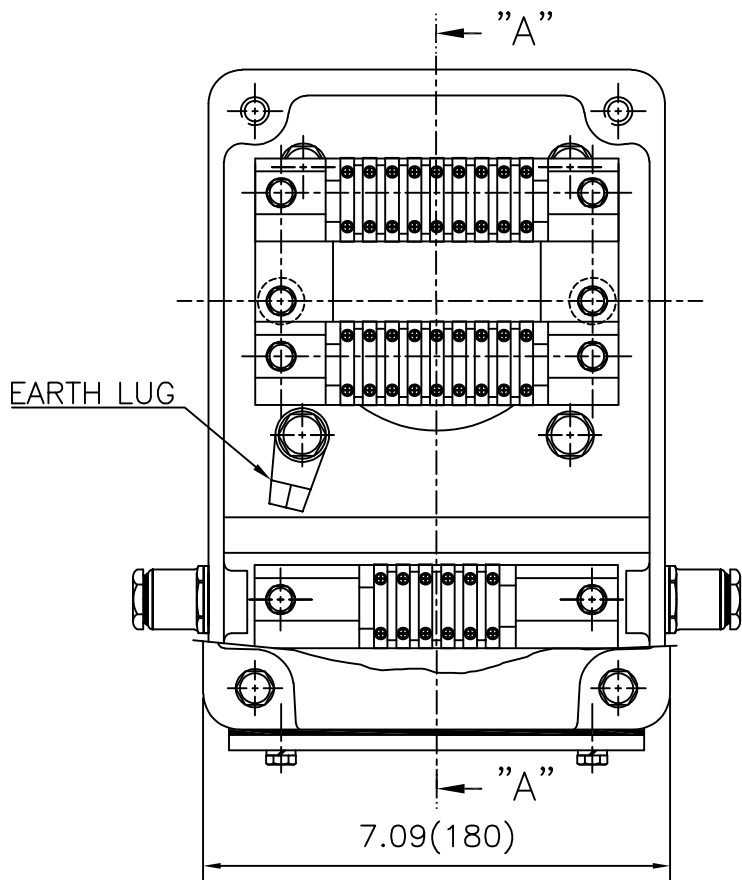
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR. L440 (CAST IRON)	DWG SIZE
CHKD BY		SCALE	1/3.5	TITLE	MAIN TERMINAL BOX ASS'Y	A3 (1:3.5)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			
DSND BY	최승희	DATE	2023-10-19			
				REF. NO		Sheet No. of
				DWG NO	3M-248452	Revision No. 0

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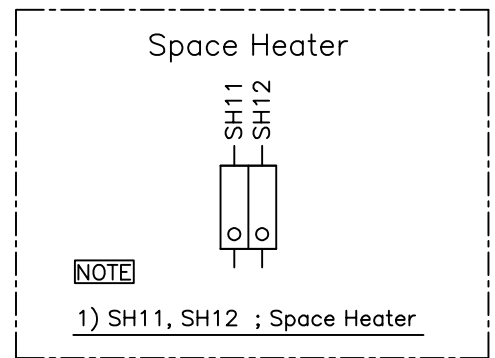
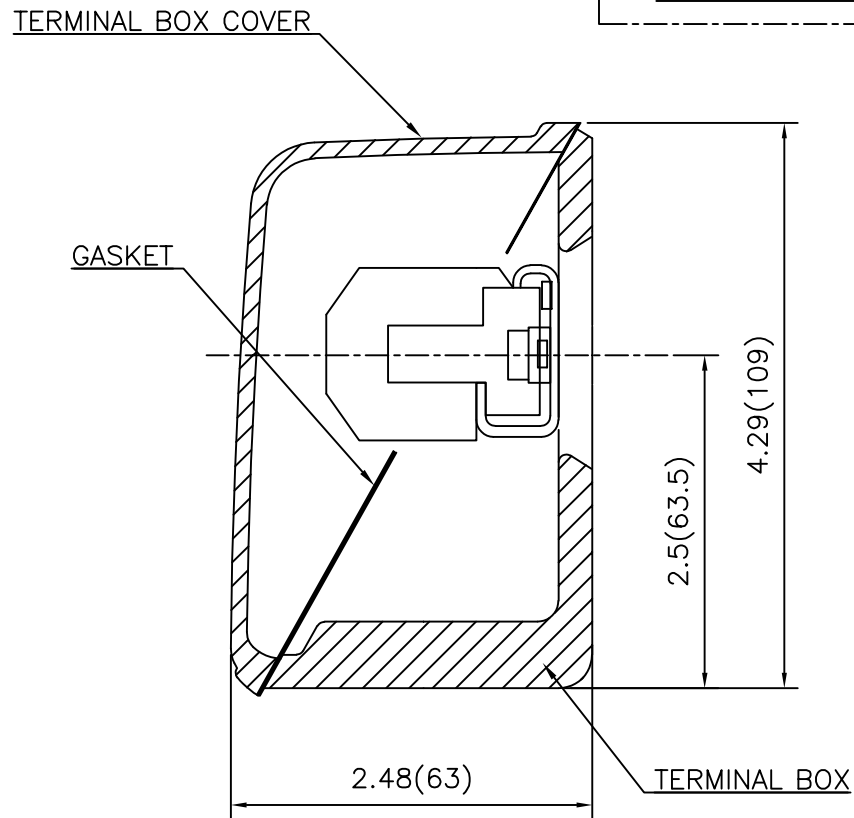
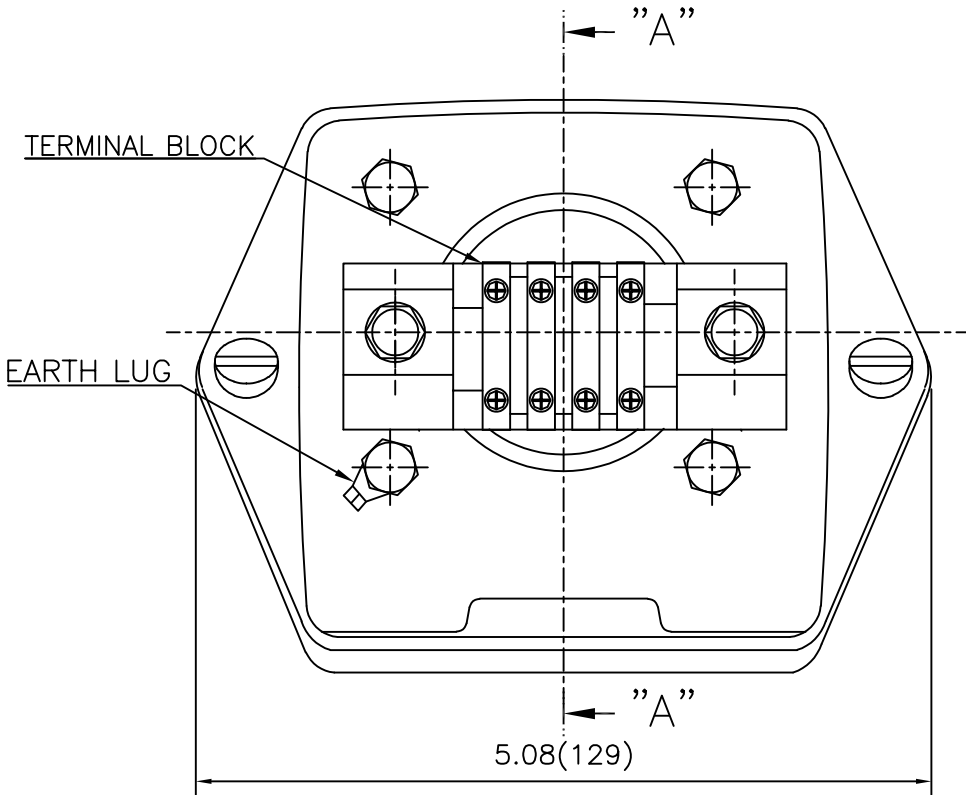


REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR.360 (CAST IRON)	DWG SIZE	A3 (1:2.2)	
CHKD BY		SCALE	1/1	TITLE	AUX. TERMINAL BOX ASS'Y	REF. NO		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	DWG NO		3M-165277	Sheet No.	of
DSND BY	배승희	DATE	2024-01-18			DWG NO	3M-165277	
							Revision No.	0



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REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR.180 (CAST IRON)	DWG SIZE
CHKD BY		SCALE	1/1	TITLE	SUB. TERMINAL BOX ASS'Y	A3 (1:1.1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			
DSND BY	배승희	DATE	2024-01-18			
				REF. NO		Sheet No. of
				DWG NO	3M-165278	Revision No. 0