

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.	IEEE300-18-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	4				
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	266.9 A	333.6 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					
Motor Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		50% Load		93.2 %			
Altitude	Less than 1,000 meter		75% Load		95.2 %			
Relative Humidity	Less than 80 %		100% Load		96.2 %			
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)					
Duty Type	Continuous ( S1 )		50% Load		0.730			
Service Factor	1.15		75% Load		0.830			
Mounting	B3		100% Load		0.880			
Bearing	Type	Anti-Friction	Speed at Full Load					
	DE/N-DE	NU322 / 6318C3-INS.	1785 r.p.m					
	Lubricant	Grease(Polyrex-EM)	Torque					
External Thrust	Not applicable		Full Load		888.0 lb.ft			
Coupling Method	<input type="checkbox"/> Direct <input type="checkbox"/> V-belt		Locked-rotor**		135 %			
Shaft Extension	Single		Breakdown**		225 %			
Terminal	Main	Cast Iron	Moment of Inertia (J)					
Box	Aux.	Yes	Load(Max.)		1,200.000 lb.ft2			
	Location	Refer to Outline Drawing	Motor		101.100 lb.ft2			
Application			Sound Pressure Level (No-load & mean value at 1m from motor)					
Area classification	Hazardous		85 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>SUBMITTAL DRAWING</b>					
Outline Dimension Drawing \ Motor Weight(Approx.)								
B3		LM-I044XB3U7001	2890 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								
<b>SPARE PARTS</b>								
Date	DSND	CHKD	CHKD	APPD				
2024-09-22	E.J.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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**4.72**

**2.36**

**CROWN TRITON**  
Premium Efficiency AC 3 Phase Motor

300HP 4P 460V	Cat. No. IEE300-18-L449T-IBBRSRSH	
Model LATER	INS. Class F	Amps 333.6
Type PJP	Duty CONT	Code G
Frame L449T	Encl. TEFC	Amb. 40°C
	S.F. 1.15	RPM 1785
Bearing	Drive NU322	NEMA Nom. Eff. 96.2%
	Opp. 6318C3-INS.	S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)
		3/4 Eff. 95.2%
Usable at	50Hz 250HP 380V 341.71A 1485rpm S.F.: 1.0 Eff.: 96% Code: H	
	50Hz 250HP 400/415V 332.17/327.45A 1486/1487rpm S.F.: 1.0 Eff.: 96/96.1% Code: J/J	
CSA Certified for	CLASS I, Div. 2, Gr. A, B, C & D CLASS I, Zone 2, Gr. IIA, IIB, & IIC	CLASS II, Div. 2, Gr. F & G
	Temp. Code (sine wave)	Frame L440FR - 500FR
		Amb. 40°C T3 (200°C)
		Amb. 55°C T3 (200°C)
No. -	Date -	Weight 2890 lb

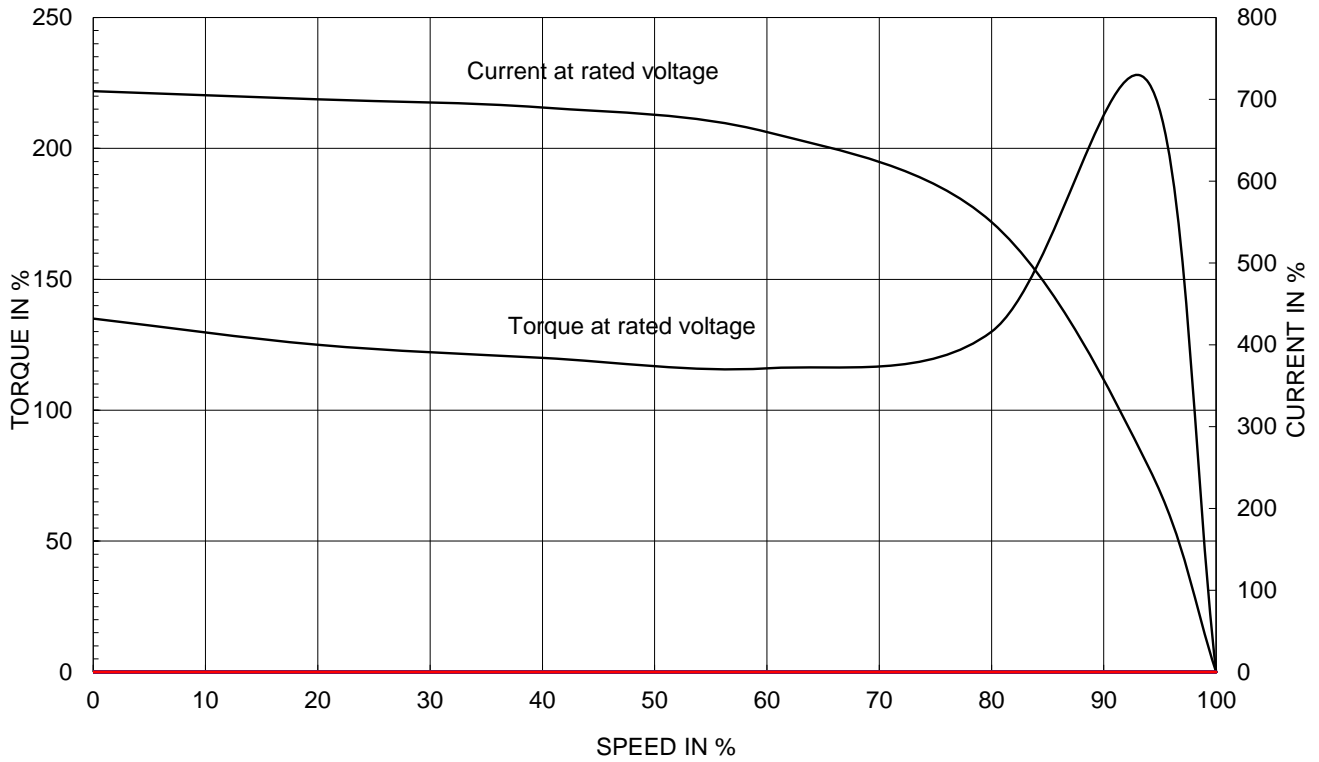
**IEEE Std 841-2021 MARINE DUTY IEE45**  
 4M-136054 Made in Korea H1

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 IEE841 (XL)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 ( 1:1 )
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	<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-IEE300-18-L449T-IBBRSRSH	Revision No. <b>0</b>

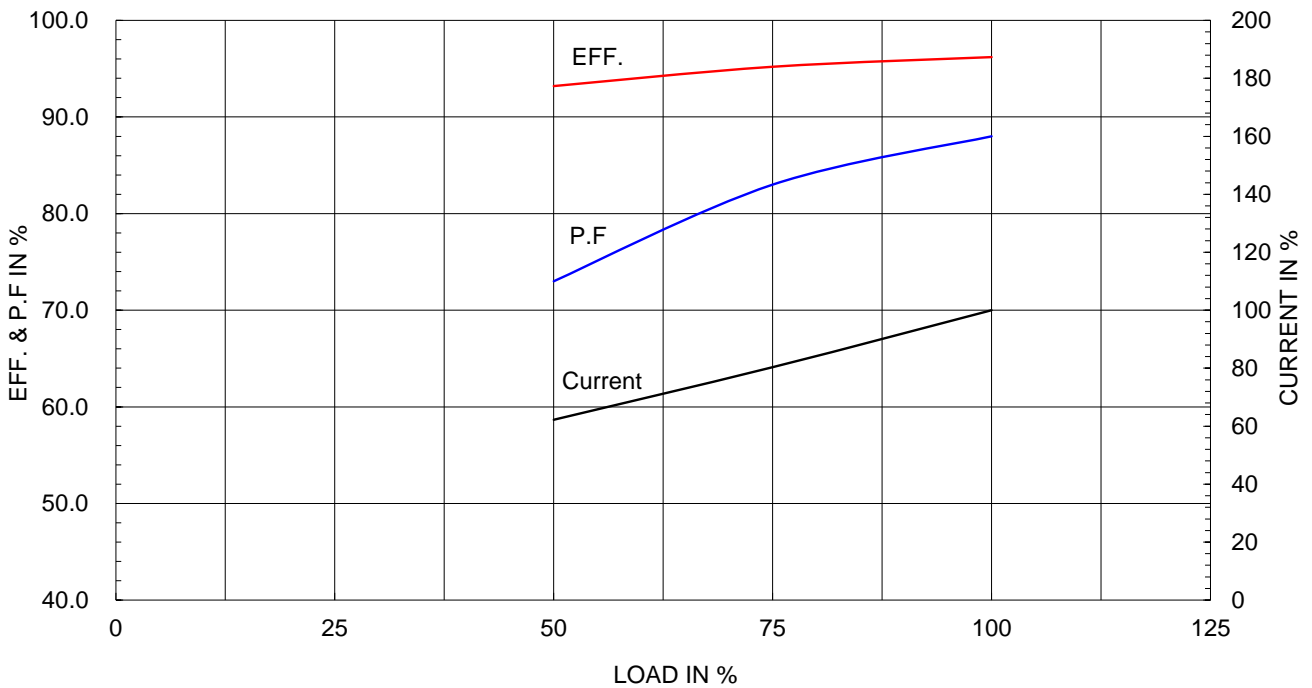
Type :	PJP
Full Load Torque :	888.0 lb.ft
Load moment of Inertia (J) :	1200.000 lb.ft <sup>2</sup>
Motor moment of Inertia (J) :	101.100 lb.ft <sup>2</sup>

225kW 300HP	4 P	60 Hz
Speed at Full Load :		1785 RPM
Rated Voltage	575V	460V 230V
Full Load Current	266.9A	333.6A 667.2A

SPEED VS TORQUE & CURRENT CURVE

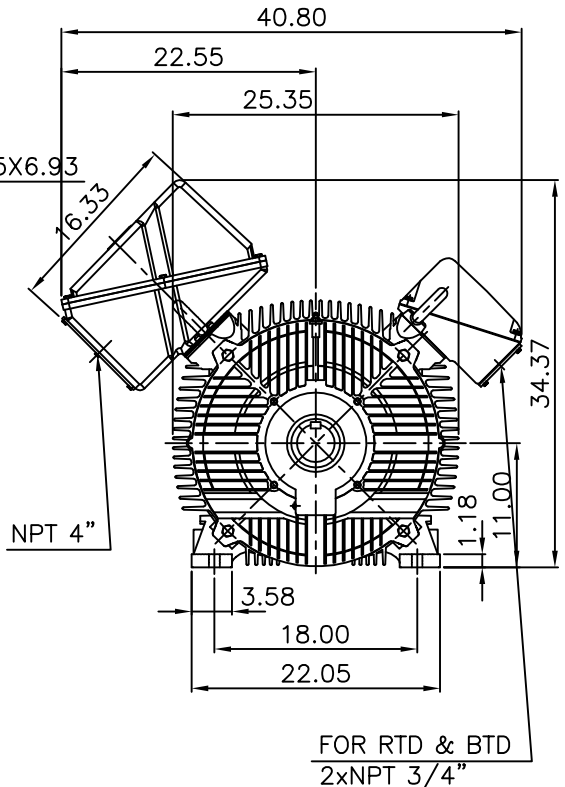
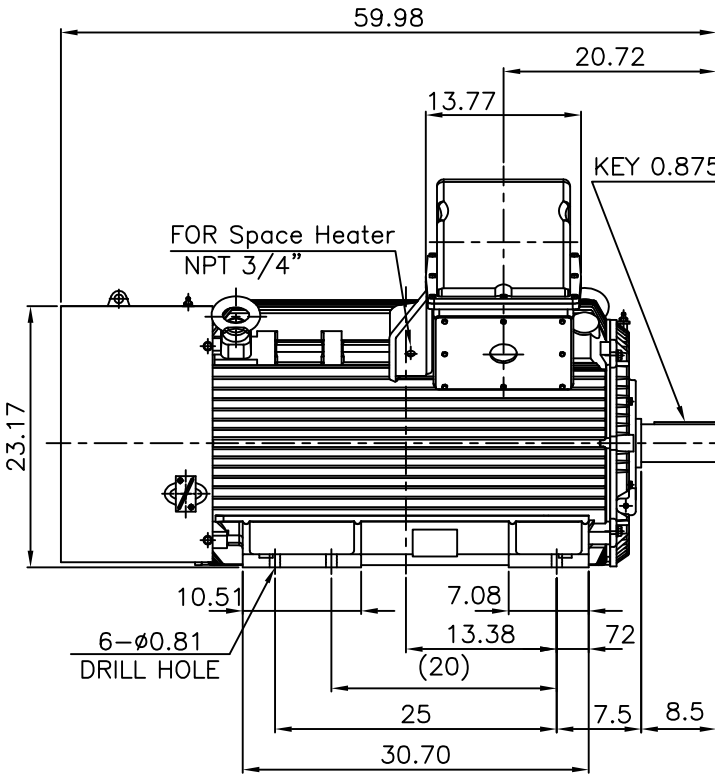


OUTPUT VS EFF., P.F & CURRENT CURVE



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

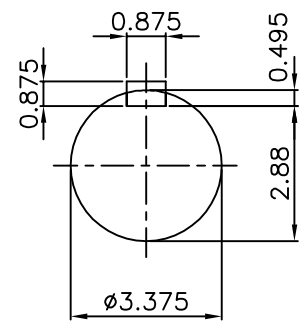
**IEEE841**



**NOTE**

1.TOLERANCE :

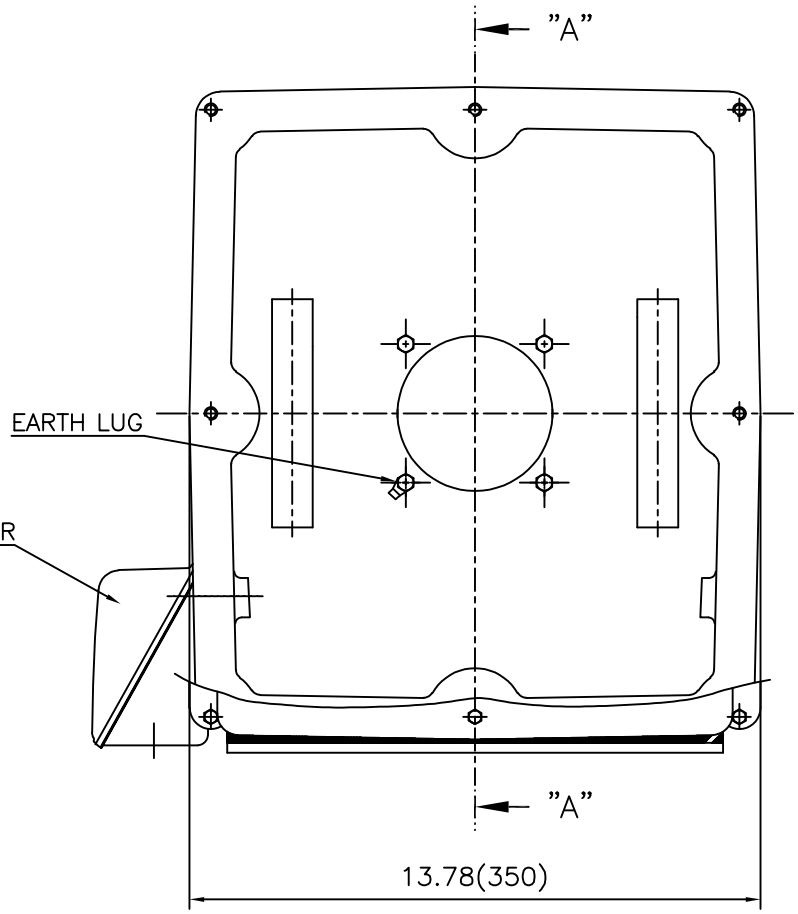
CENTER HEIGHT	11	+0.000	-0.060
SHAFT DIAMETER	ø3.375	+0.000	-0.001
KEYWAY WIDTH	0.875	+0.003	-0.000



**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	<b>OUTLINE</b>	REF. NO. _____ Sheet No. _____ of _____	
CHKD BY	R.G.KIM	PROJEC'N	3각법(3rd Angle)				
DSND BY	H.K.LEE	DATE	2021-04-27				
				DWG NO	LM-1044XB3U7001	Revision No. 0	

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**IEEE 841**



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		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	배승희	DATE	2024-01-18	DWG NO	3M-165277	Revision No.	0



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IEEE 841**



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