

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.	IEEE400-18-L449TC-IBSH	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA			
Frame Size	L449TC		Rated Output	300 kW		400 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	355.8 A	444.8 A
Insulation Class	F			Locked-rotor**	710 %	710 %
Temp. Rise at full load (by resistance method)			Efficiency			
at 1.0 S.F	80 deg. C		50% Load		93.2 %	
Motor Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load		95.2 %	
Altitude	Less than 1,000 meter		100% Load		96.2 %	
Relative Humidity	Less than 80 %		Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)		50% Load		0.730	
Duty Type	Continuous (S1)		75% Load		0.830	
Service Factor	1.15		100% Load		0.880	
Mounting	B35		Speed at Full Load	1785 r.p.m		
Bearing	Type	Anti-Friction	Torque			
	DE/N-DE	6322C3 / 6318C3-INS.	Full Load	1,184.0 lb.ft		
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**	135 %		
External Thrust	Not applicable		Breakdown**	225 %		
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-belt		Moment of Inertia (J)			
Shaft Extension	Single		Load(Max.)	1,550.000 lb.ft2		
Terminal Box	Main	Cast Iron	Motor	129.342 lb.ft2		
	Aux.	Yes	Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing	85 dB(A)			
Application			Vibration			
Area classification	Hazardous		3.8 mm/sec (peak)			
Type of Ex-Protection	Class I&II, Division 2		Permissible number of consecutive starts	Cold	2 times	
Applicable Standard	IEEE841, NEMA MG1, CSA C390		Hot	1 time		
			Paint	Munsell No.	7.5BG6/1.5	

ACCESSORIES	SUBMITTAL DRAWING		
*. Space Heater : 1EA/Motor	Outline Dimension Drawing \ Motor Weight(Approx.)		
	B35	LM-I044XC4UE001	3720 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. 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.

1	2	3	4
REV	DATE	CONTENTS	REVD BY

4.72

CROWN TRITON

Premium Efficiency AC 3 Phase Motor


400HP	4P	460V	Cat. No.	IEEE400-18-L449TC-IBSH			
Model	LATER		INS. Class	F	Amps	444.8	
Type	PJP	Duty	CONT	Code	G	Amb. 40°C	
Frame	L449TC	Encl.	TEFC	S.F.	1.15	RPM 1785	
Bearing	Drive	6322C3		S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)		3/4 Eff. 95.2%	
	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 3720 lb	

IEEE Std 841-2021


4M-136054

MARINE DUTY IEEE45

Made in Korea H1



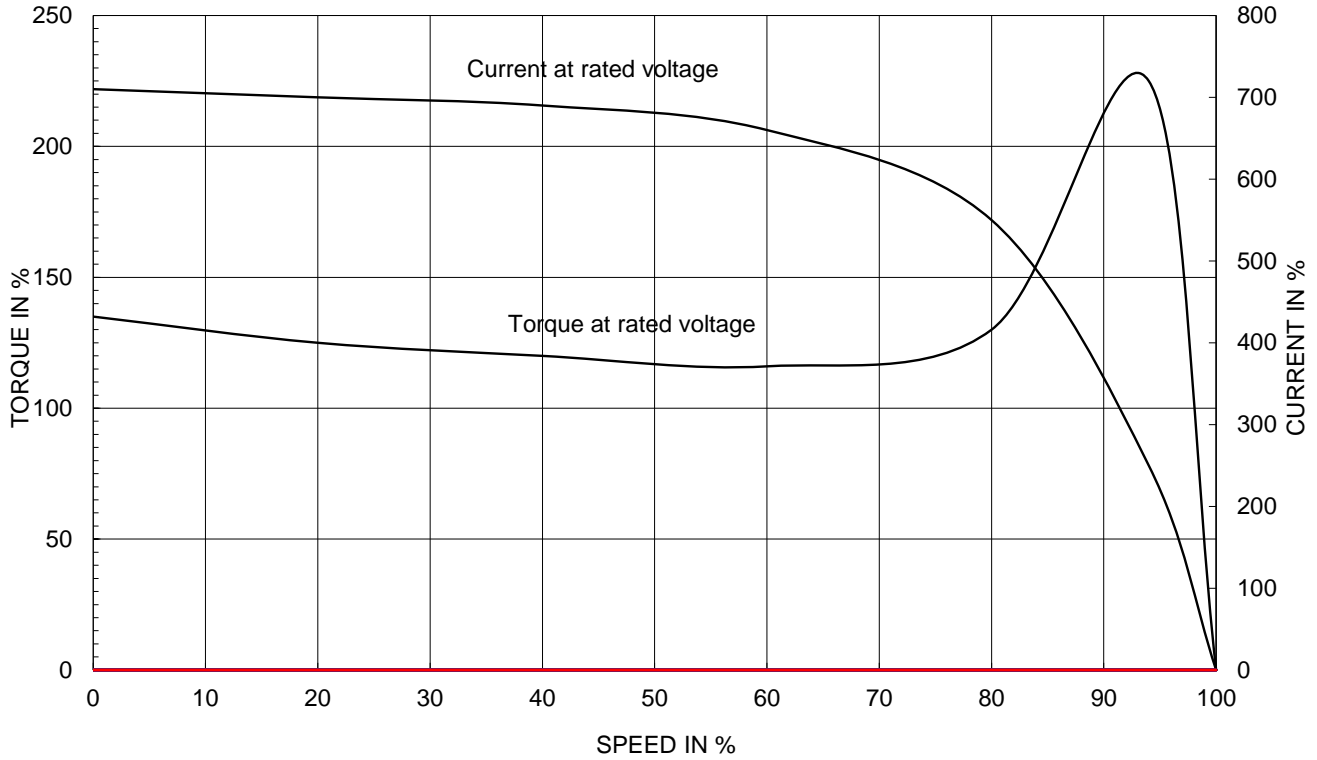
2.36

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 NAMEPLATE DRAWING		
DSND BY	S.H.LEE	DATE	2024.06.07			
				REF. NO	4M-136054	Sheet No. of
				DWG NO	NP-IEEE400-18-L449TC-IBSH	Revision No. 0

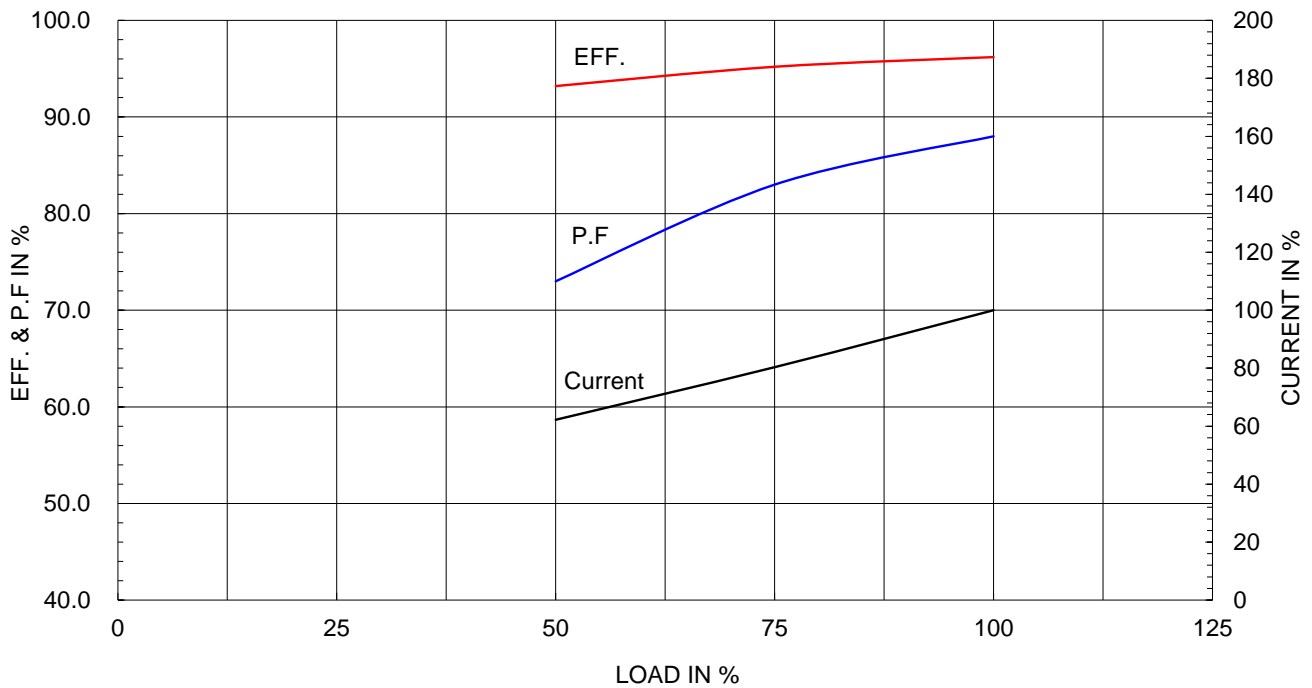
Type :	PJP
Full Load Torque :	1184.0 lb.ft
Load moment of Inertia (J) :	1550.000 lb.ft2
Motor moment of Inertia (J) :	129.342 lb.ft2

300kW 400HP	4 P	60 Hz
Speed at Full Load :		1785 RPM
Rated Voltage	575V	460V 230V
Full Load Current	355.8A	444.8A 889.6A

SPEED VS TORQUE & CURRENT CURVE

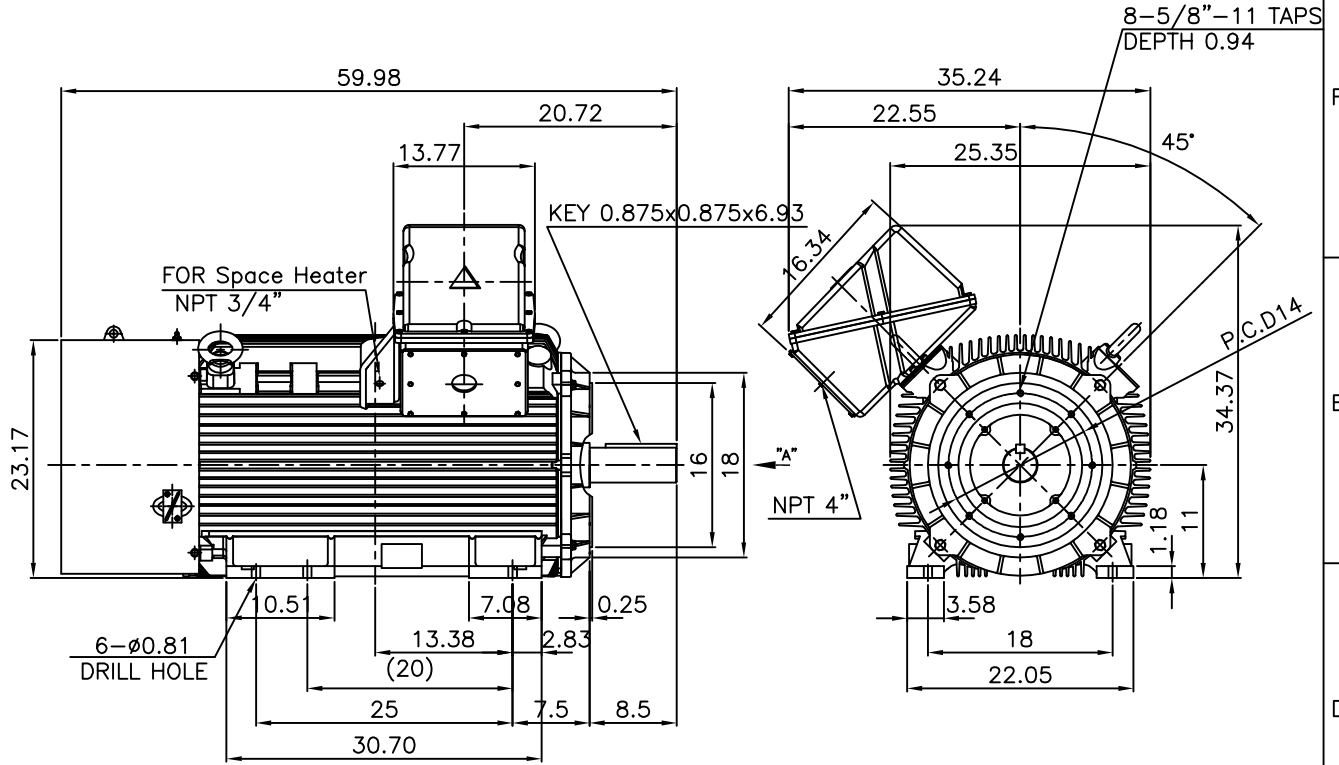


OUTPUT VS EFF., P.F & CURRENT CURVE



1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		CONTENTS
▽▽▽	3.2S		REVD BY
▽▽▽▽	0.4S		CHKD BY
			CHKD BY
			APPD BY

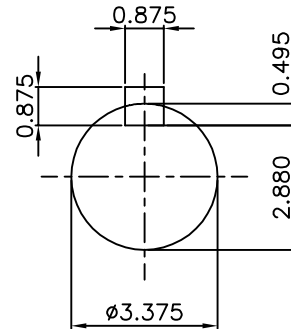
IEEE841



NOTE

1.TOLERANCE :

CENTER HEIGHT	11	+0.000	-0.060
RABBET DIAMETER	ø16	0	-0.005
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.L449TC	DWG SIZE	A4 (1:18)
CHKD BY	O.J.KIM	SCALE	1/18	TITLE	NEMA STD SHAFT(4140 SHAFT)		
CHKD BY	R.G.KIM	PROJEC'N	3각법(3rd Angle)	OUTLINE			
DSND BY	H.K.LEE	DATE	2021-04-27				
				REF. NO		Sheet No.	of
				DWG NO	LM-1044XC4UE001	Revision No.	0