

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.	IEEE350-12-L449TC-IBBRSRSH	Item No.		Rev. No.	[      ]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA			
Frame Size	L449TC		Rated Output	261 kW      350 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	325.7 A	407.1 A      814.2 A
Insulation Class	F			Locked-rotor**	650 %	650 %      650 %
Temp. Rise at full load (by resistance method)			Efficiency			
at 1.0 S.F	80 deg. C		50% Load      92.8 %			
Motor Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load      94.8 %			
Altitude	Less than 1,000 meter		100% Load      95.8 %			
Relative Humidity	Less than 80 %		Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)		50% Load      0.690			
Duty Type	Continuous ( S1 )		75% Load      0.790			
Service Factor	1.15		100% Load      0.840			
Mounting	B35		Speed at Full Load	1185 r.p.m		
Bearing	Type	Anti-Friction	Torque			
	DE/N-DE	6322C3 / 6318C3-INS.	Full Load      1,551.7 lb.ft			
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**      120 %			
External Thrust	Not applicable		Breakdown**      200 %			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-belt		Moment of Inertia (J)			
Shaft Extension	Single		Load(Max.)      3,240.000 lb.ft2			
Terminal Box	Main	Cast Iron	Motor      172.297 lb.ft2			
	Aux.	Yes	Sound Pressure Level (No-load & mean value at 1m from motor)			
Location	Refer to Outline Drawing		80 dB(A)			
Application			Vibration      3.8 mm/sec (peak)			
Area classification	Hazardous		Permissible number of consecutive starts			
Type of Ex-Protection	Class I&II, Division 2		Cold      2 times			
Applicable Standard	IEEE841, NEMA MG1, CSA C390		Hot      1 time			
	Paint	Munsell No.	7.5BG6/1.5			

ACCESSORIES
*. 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

SPARE PARTS

SUBMITTAL DRAWING		
Outline Dimension Drawing	Motor Weight(Approx.)	
B35	LM-I044XC4U7001	3490 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
2024-09-22	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.


4.72

CROWN TRITON

Premium Efficiency AC 3 Phase Motor

350HP 6P 460V	Cat. No. IEE350-12-L449TC-IBBRSRSH
Model LATER	INS. Class F Amps 407.1
Type PJP Duty CONT	Code G Amb. 40°C Hertz 60Hz
Frame L449TC Encl. TEFC	S.F. 1.15 RPM 1185 NEMA Nom. Eff. 95.8%
Bearing	Drive 6322C3 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
Usable at	50Hz 300HP 380V 424.81A 985rpm S.F.: 1.0 Eff.: 95.8% Code: G
	50Hz 300HP 400/415V 413.41/413.6A 986/987rpm S.F.: 1.0 Eff.: 95.8/95.8% Code: H/H
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	Frame L440FR - 500FR
	Amb. 40°C T3 (200°C)
	Amb. 55°C T3 (200°C)
No. -	Date - Weight 3490 lb

**IEEE Std 841-2021 MARINE DUTY IEEE45**  
 4M-136054 Made in Korea H1

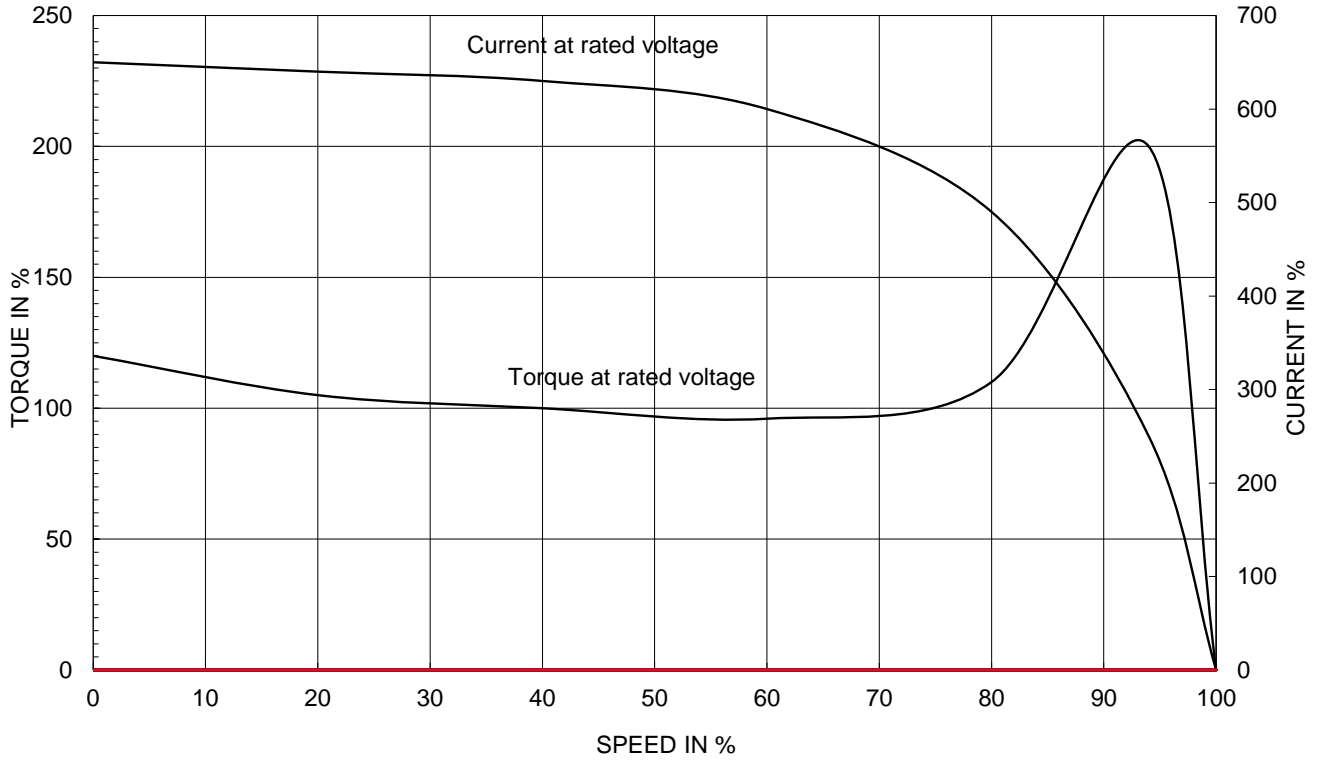
APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 IEEE841 (XL)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 ( 1:1 )
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	NAMEPLATE DRAWING		
DSND BY	S.H.LEE	DATE	2024.06.07			

REF. NO	4M-136054	Sheet No. of
DWG NO	NP-IEE350-12-L449TC-IBBRSRSH	Revision No. 0

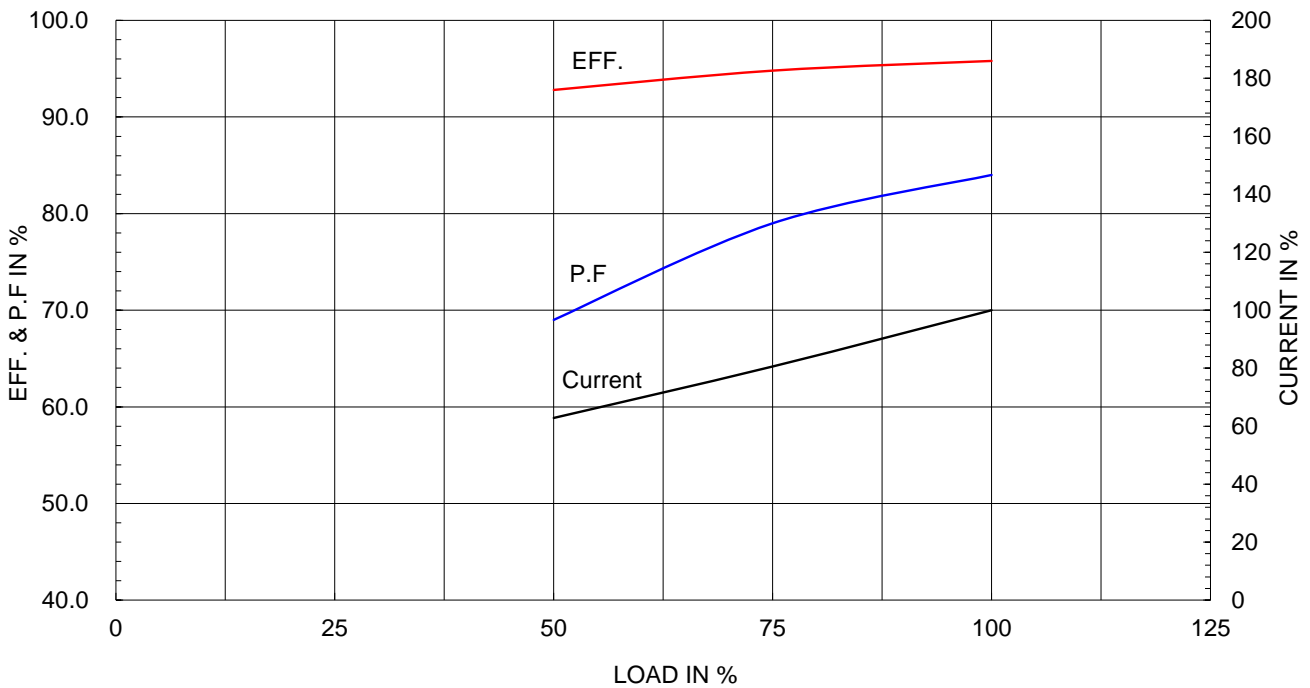
Type :	PJP
Full Load Torque :	1551.7 lb.ft
Load moment of Inertia (J) :	3240.000 lb.ft2
Motor moment of Inertia (J) :	172.297 lb.ft2

261kW 350HP	6 P	60 Hz
Speed at Full Load :		1185 RPM
Rated Voltage	575V	460V 230V
Full Load Current	325.7A	407.1A 814.2A

SPEED VS TORQUE & CURRENT CURVE

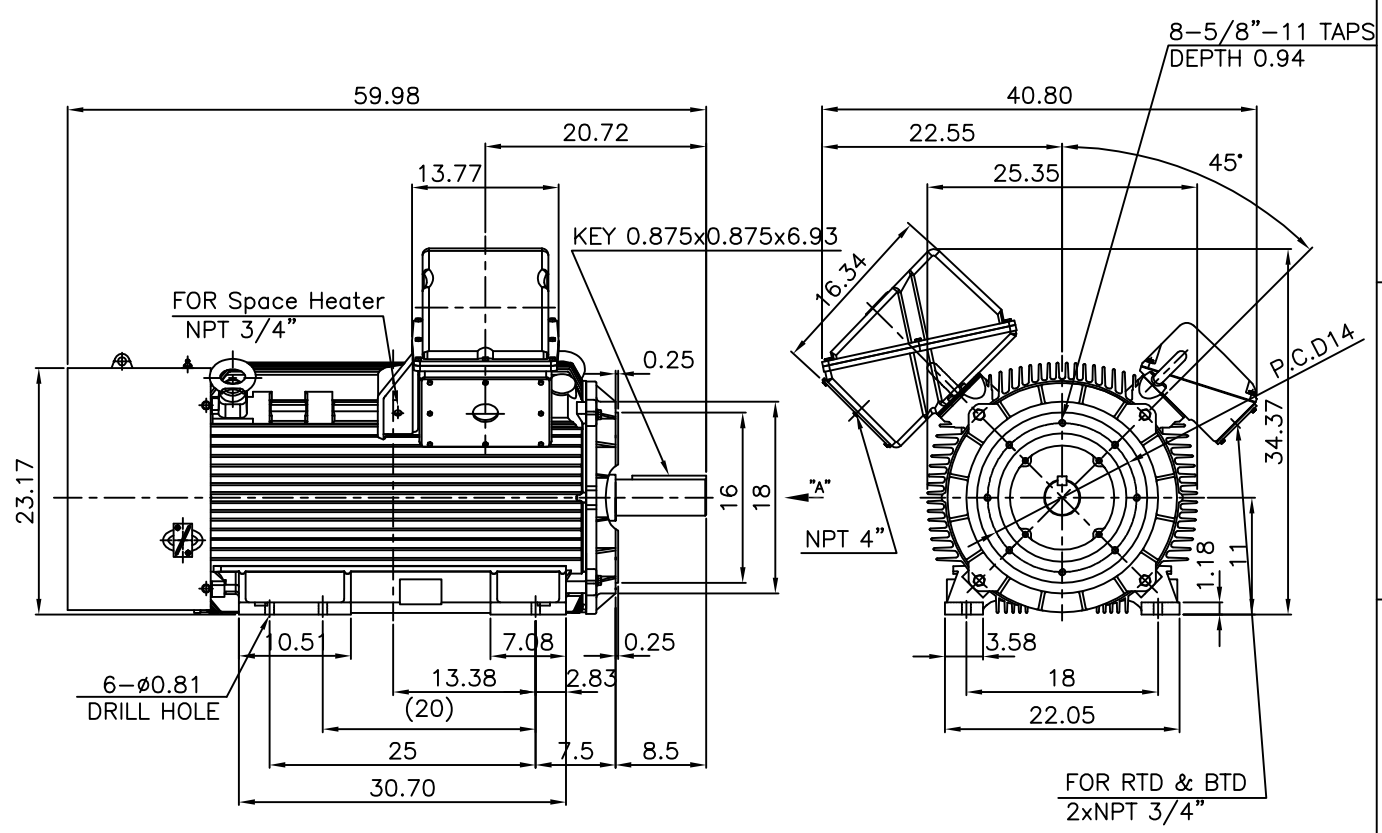


OUTPUT VS EFF., P.F & CURRENT CURVE



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

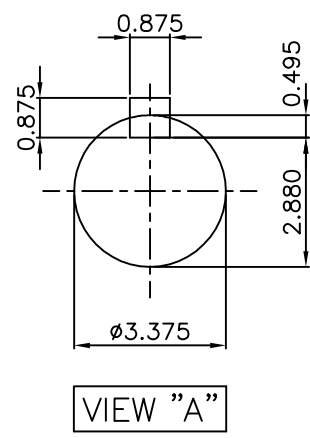
**IEEE841**



**NOTE**

1.TOLERANCE :

CENTER HEIGHT	11	+0.000	-0.060
RABBET DIAMETER	ø16	0	-0.005
SHAFT DIAMETER	ø3.375	+0.000	-0.001
KEYWAY WIDTH	0.875	+0.003	-0.000

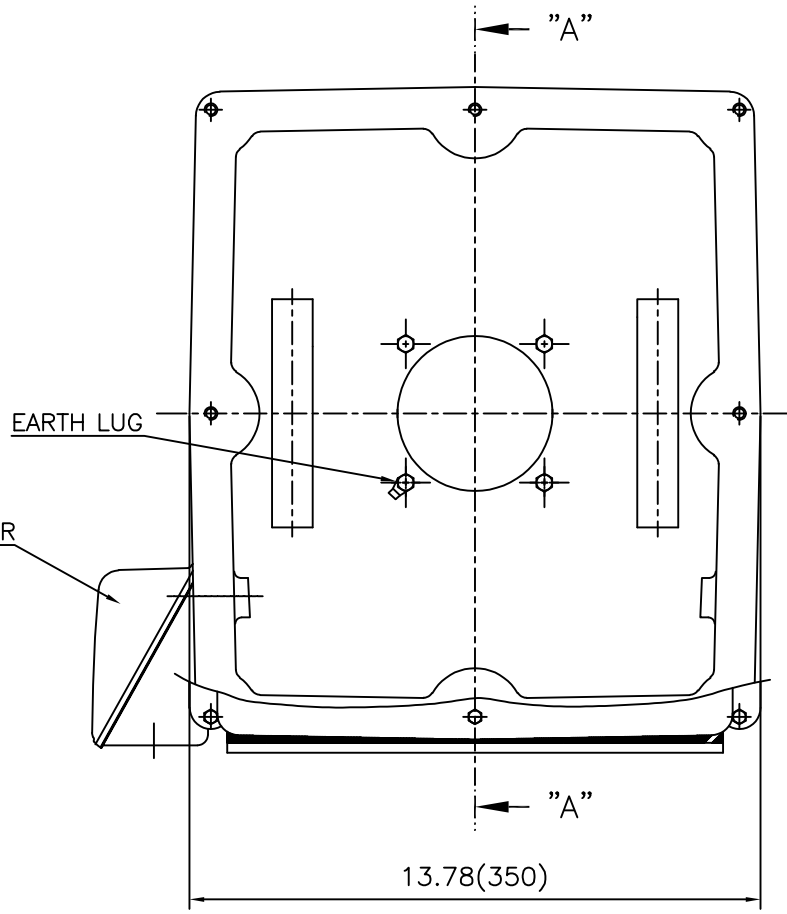


APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	Fr.L449TC	DWG SIZE	A4 (1:18)
CHKD BY	O.J.KIM	SCALE	1/18	TITLE	OUTLINE		
CHKD BY	R.G.KIM	PROJEC'N	3각법(3rd Angle)	REF. NO		Sheet No.	of
DSND BY	H.K.LEE	DATE	2021-04-27	DWG NO	LM-1044XC4U7001	Revision No.	0



REF. NO: \_\_\_\_\_ Sheet No. \_\_\_\_\_ of \_\_\_\_\_  
 DWG NO: LM-1044XC4U7001 Revision No. 0

**Cls. I&II, Div. 2  
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

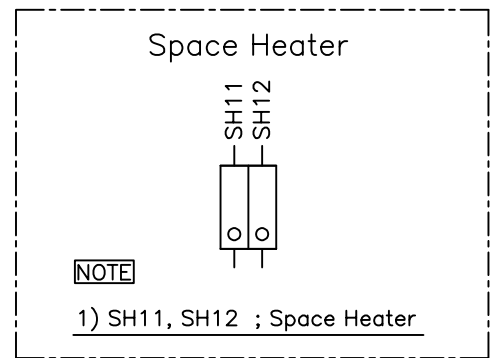
APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR.360 (CAST IRON)	DWG SIZE	A3 (1:2.2)
CHKD BY		SCALE	1/1	TITLE	AUX. TERMINAL BOX ASS'Y		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	배승희	DATE	2024-01-18	DWG NO	3M-165277	Revision No.	0



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IEEE 841**



SEC. "A" - "A"



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