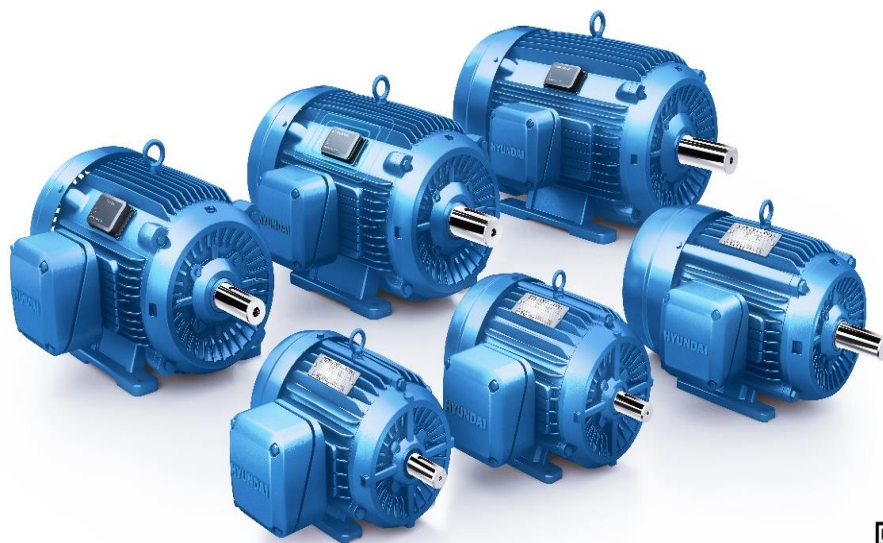


Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION for INDUCTION MOTOR



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



AC INDUCTION MOTOR DATA SHEET

EXPLOSION PROOF TYPE

Catalog No.	IXHHI250-18-449T	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	449T	Rated Output	190 kW 250 HP		
Type	XJP	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	225.4 A	281.7 A 563.4 A
Insulation Class	F		Locked-rotor**	700 %	700 % 700 %
Temp. Rise at full load (by resistance method)		Efficiency			
at 1.0 S.F	80 deg. C	50% Load 93.2 %			
Motor Location	☐ Indoor ☐ 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	B3	Speed at Full Load	1785 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	NU320 / 6318C3	Full Load 749.88 lb.ft		
	Lubricant	Grease(Polyrex-EM)	Locked-rotor** 140 %		
External Thrust	Not applicable	Breakdown** 220 %			
Coupling Method	☒ Direct ☐ V-belt	Moment of Inertia (J)			
Shaft Extension	Single	Load(Max.) 3,318.708 lb.ft2			
Terminal	Main	Motor 105.370 lb.ft2			
Box	Aux.	Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing			
Application		Vibration 3.8 mm/sec (peak)			
Area classification	Hazardous	Permissible number of Cold 3 times			
Type of Ex-Protection	Class I, Division 1	consecutive starts Hot 2 times			
Applicable Standard	NEMA MG1, CSA C390, UL674	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	
ACCESSORIES		SUBMITTAL DRAWING			
*. W.T.D.(Thermostat, 145°C) : 1EA/Ph.		Outline Dimension Drawing \ Motor Weight(Approx.)			
		B3	LM-U0449B3TL001	3086 lb.	
REMARK		1. Premium efficiency according to NEMA MG1			
SPARE PARTS		2. Inverter Duty @ 1.0 S.F & F Temp. rise & Amb. max 45°C			
		-. 10:1 VT (20:1 VT at 50% load)			
		-. 10:1 CT (1 hour duty, 4:1 continuous)			
		-. CHP up to 1.5 times base speed, NEMA MG1 Part31			
		3. UL Certification			
		-. Class I, Division 1, Group C&D			
		4. Temperature Code (Sine wave)			
		-. T3(200°C) at 40°C Amb. / T2D(215°C) at 55°C Amb.			
		-. T4(135°C) with Winding Temperature Detector @ 1.0 S.F			
		Date	DSND	CHKD	CHKD APPD
		2025-07-30	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

4.72

Type : XJP

190kW 250HP 4 P 60 Hz

Full Load Torque : 749.88 lb.ft

Speed at Full Load : 1785 RPM

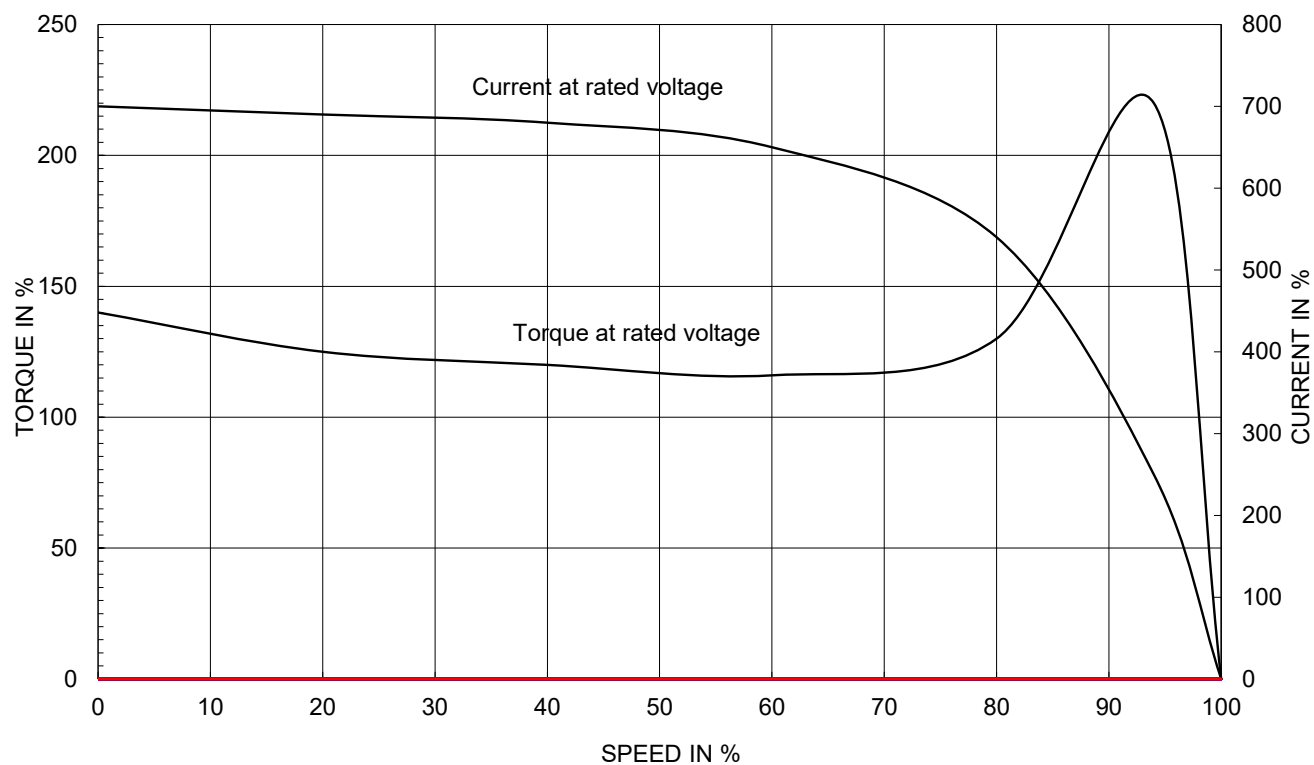
Load moment of Inertia (J) : 3318.708 lb.ft2

Rated Voltage	575V	460V	230V
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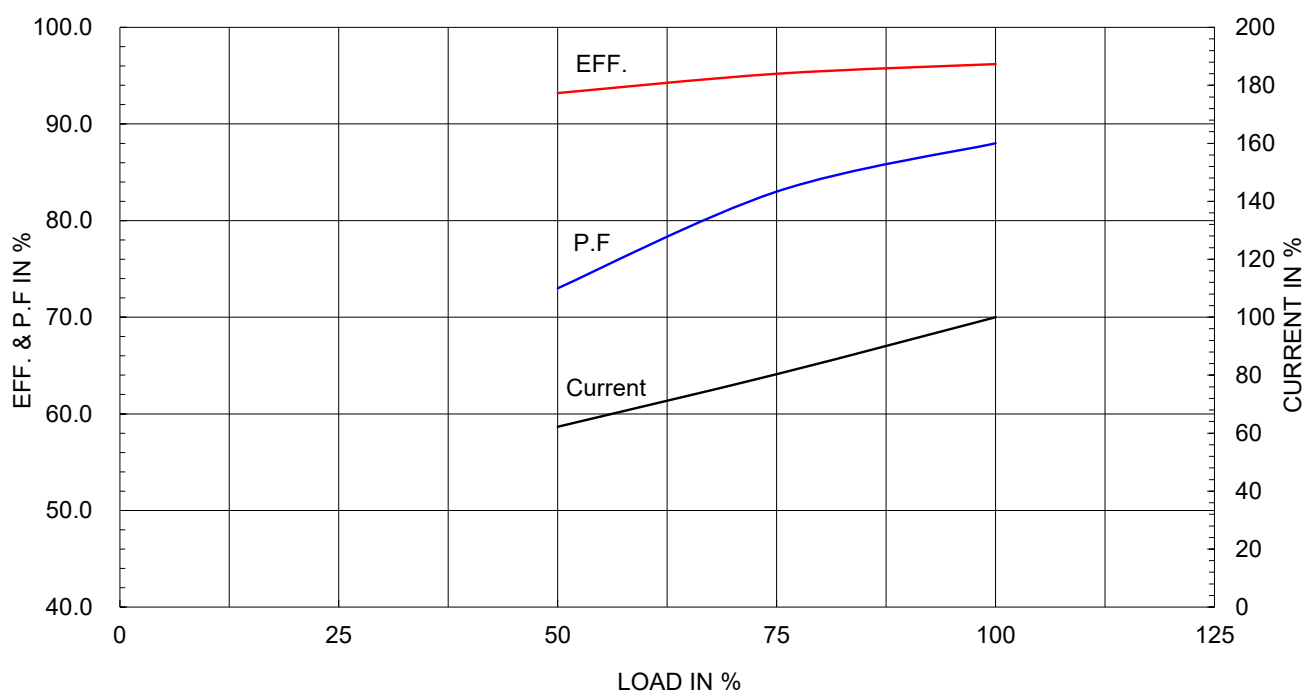
Motor moment of Inertia (J) : 105.370 lb.ft2

Full Load Current	225.4A	281.7A	563.4A
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SPEED VS TORQUE & CURRENT CURVE

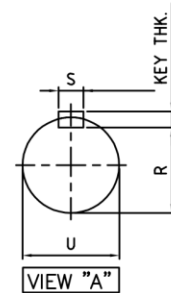
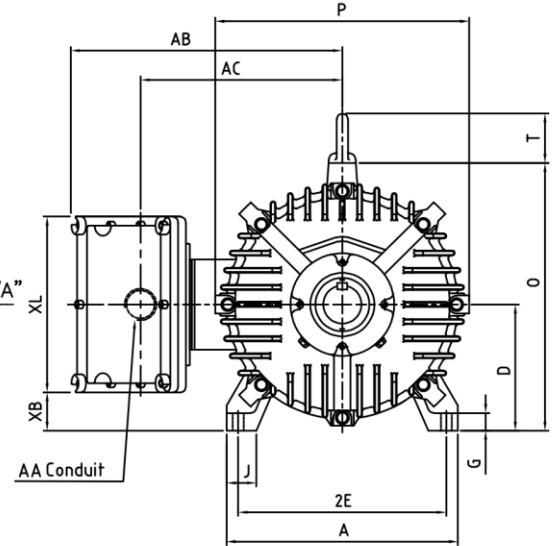
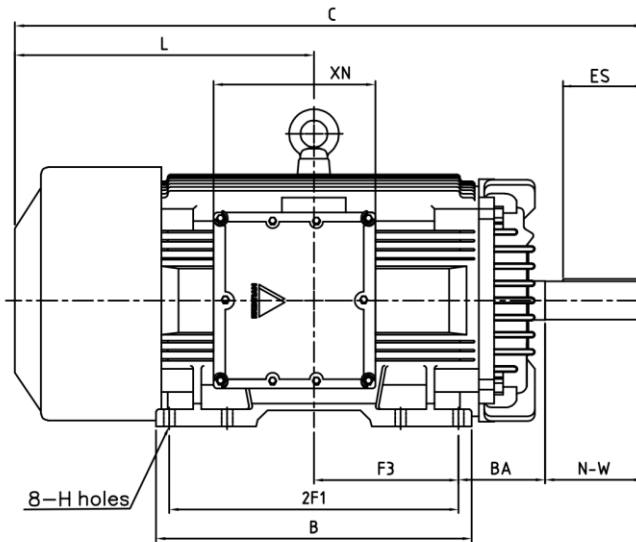


OUTPUT VS EFF., P.F & CURRENT CURVE



1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		

Class I Division 1



DIMENSIONS

MOUNTING									CONDUIT BOX						APPROX. WGT.(LB)
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
20.00	27.28	18.00	25.00	-	12.50	1.53	2.56	0.81	3.00	24.01	18.30	3.34	15.35	13.97	2P: 2690 or 3020 4P: 2756 or 3086 6P: 2756 or 3086

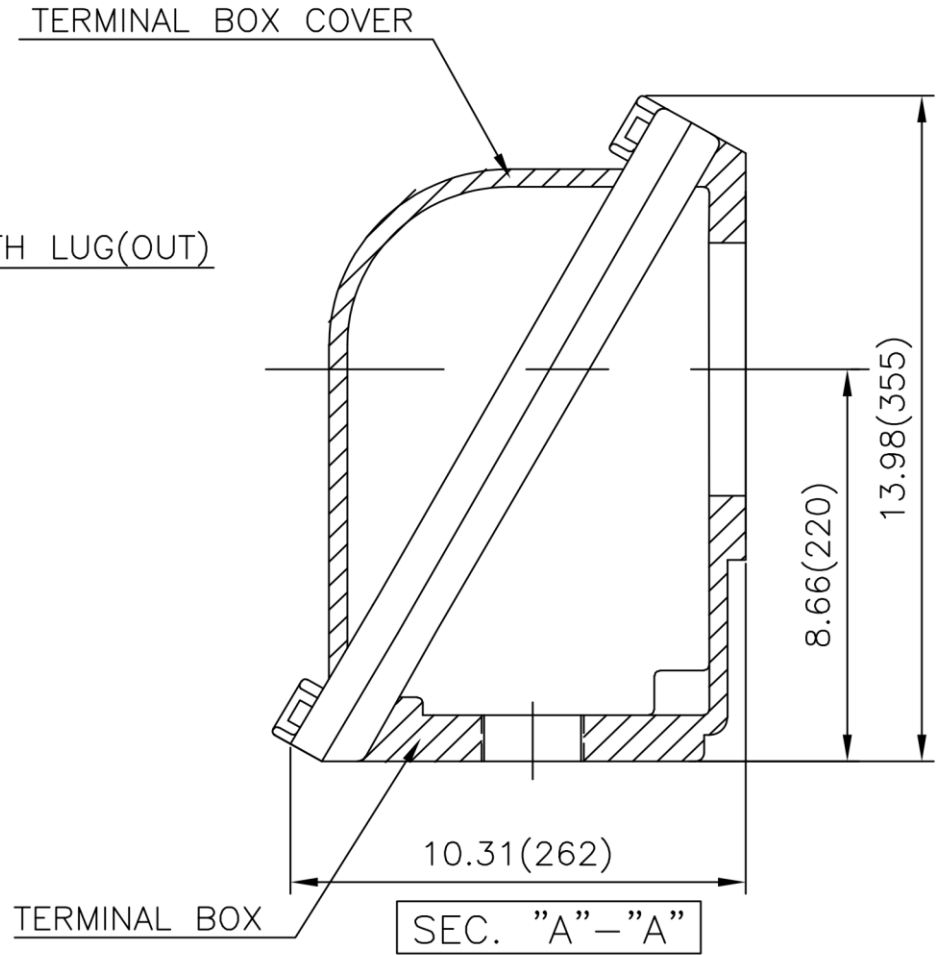
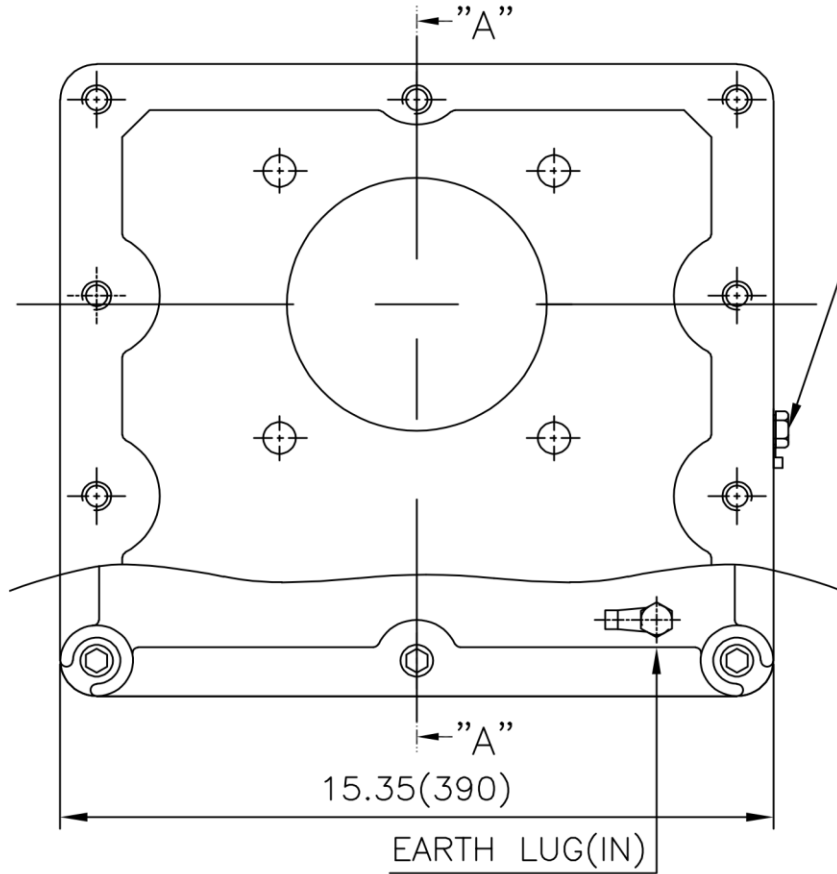
OVERALL									SHAFT			KEY	BEARING	
BA	C	D	L	O	P	T	U	N-W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
									R	ES	S			
7.50	54.32	11.00	25.84	23.38	21.97	4.33	3.375	8.50	2.880	6.93	0.875	0.875	6320C3 or NU320	6318C3

NOTE

1. Dimension "D" tolerance : +0.00inch - 0.03inch (143T-365T) ; +0.000inch - 0.06inch (404T-449T)
2. Dimension "U" tolerance : +0.000inch - 0.005inch (143T-215T), +0.000inch - 0.001inch (254T-449T)
3. Dimension "R" tolerance : +0.000inch - 0.015inch

APPD BY	S.Y.KIM	UNIT	inch	SUBJECT	449T	DWG SIZE
CHKD BY	R.G.KIM	SCALE	1/15	TITLE OUTLINE		
CHKD BY		PROJEC'N	3rd Angle			
DSND BY	J.H.JEON	DATE	2021-04-19			
				REF. NO		Sheet No. of
				DWG NO	LM-U0449B3TL001	Revision No. 0

Cls. I Div. 1



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	NEMA FR. 400~440(CAST IRON)	DWG SIZE	
CHKD BY	R.G.KIM	SCALE	1/3	TITLE	MAIN TERMINAL BOX ASS'Y		
CHKD BY		PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	김은진	DATE	2023-11-08	DWG NO	3M-248636	Revision No.	0