

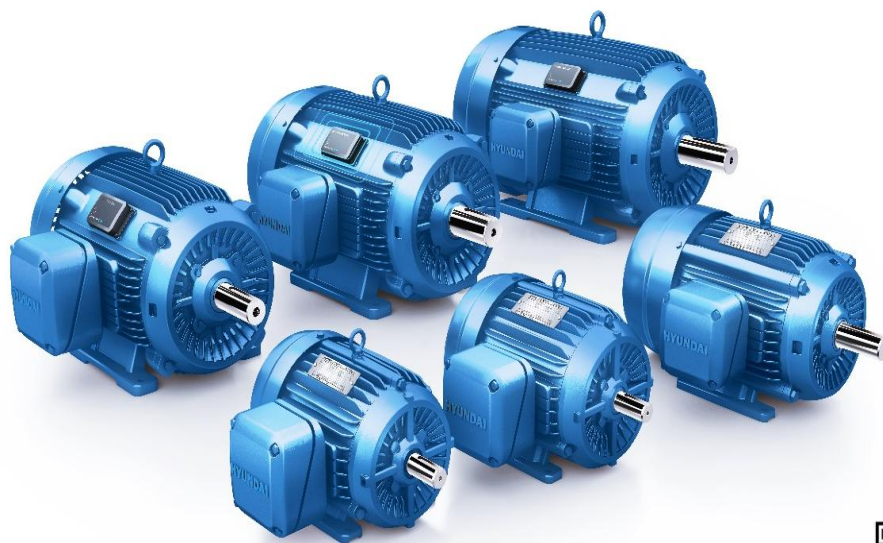
Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

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AC INDUCTION MOTOR DATA SHEET

Catalog No.	HES3-18-182/4JP		Item No.			Rev. No.	[]	
Project Name			Project No.			Quantity	sets	
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame Size	184JP		Rated Output	2.2 kW		3 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	3.12 A	3.91 A	7.81 A	
Insulation Class	F			Locked-rotor**	930 %	930 %	930 %	
Temp. Rise at full load (by resistance method)			Efficiency					
at 1.0 S.F			80 deg. C					
Motor Location	☐ Indoor ☐ Outdoor		50% Load		86.5 %			
Altitude	Less than 1,000 meter		75% Load		88.5 %			
Relative Humidity	Less than 80 %		100% Load		89.5 %			
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)					
Duty Type	Continuous (S1)		50% Load		0.640			
Service Factor	1.15		75% Load		0.740			
Mounting	B35		100% Load		0.790			
Bearing	Type	Anti-Friction	Speed at Full Load		1770 r.p.m			
	DE/N-DE	6207ZZC3 / 6206ZZC3	Torque					
	Lubricant	Grease(Polyrex-EM)	Full Load		8.76 lb.ft			
External Thrust	Not applicable		Locked-rotor**		220 %			
Coupling Method	☒ Direct ☐ V-belt		Breakdown**		280 %			
Shaft Extension	Single		Moment of Inertia (J)					
Terminal	Main	Cast Iron	Load(Max.)		20.204 lb.ft2			
Box	Aux.	No	Motor		0.190 lb.ft2			
	Location	Refer to Outline Drawing	Sound Pressure Level (No-load & mean value at 1m from motor)					
Application			60 dB(A)					
Area classification	Hazardous		Vibration		3.8 mm/s (peak)			
Type of Ex-Protection	Class I&II, Division 2		Permissible number of consecutive starts		Cold	3 times		
Applicable Standard	NEMA MG1, CSA C390		Hot		2 times			
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)			
ACCESSORIES			SUBMITTAL DRAWING					
			Outline Dimension Drawing		Motor Weight(Approx.)			
			B35	LM-T2184C4JLV25	125 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. CSA Certification					
			-. Class I, Division 2, Group A, B, C & D					
			-. Class II, Division 2 Group E, F & G (Group E : up to 320Fr.)					
			4. Service Factor 1.15 and Temperature rise B are applicable under the condition of sine wave power.					
			5. Service Factor 1.25 is applicable to motors of 100HP or less with temperature rise F & Non-Hazardous.					
			6. Temp. code : T3C(160°C) at sine wave					
			Date	DSND	CHKD	CHKD	APPD	
			2025-09-19	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.

Type : PJP

2.2kW 3HP 4 P 60 Hz

Full Load Torque : 8.76 lb.ft

Speed at Full Load : 1770 RPM

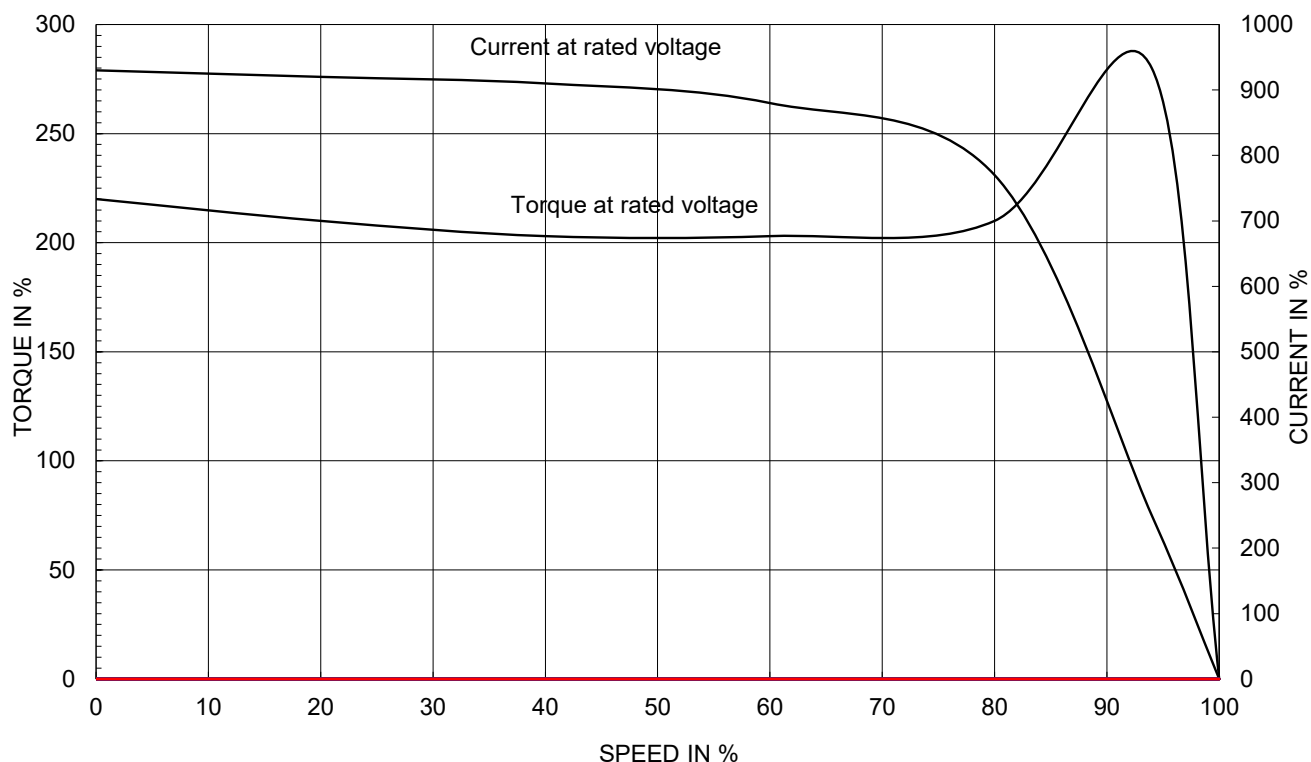
Load moment of Inertia (J) : 20.204 lb.ft²

Rated Voltage	575V	460V	230V
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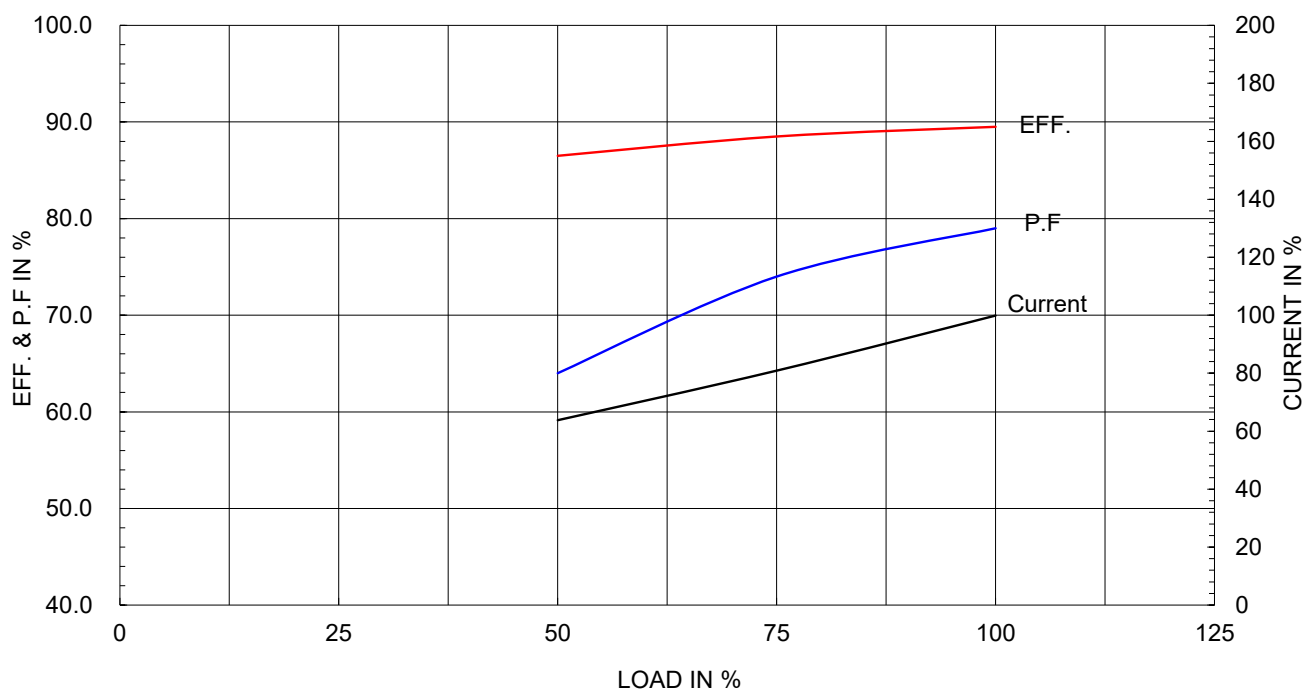
Motor moment of Inertia (J) : 0.190 lb.ft²

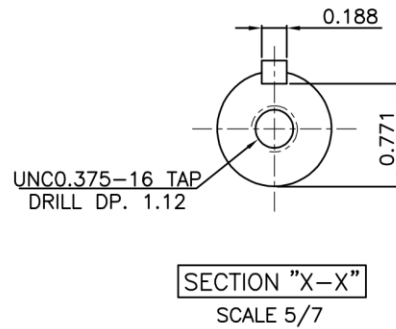
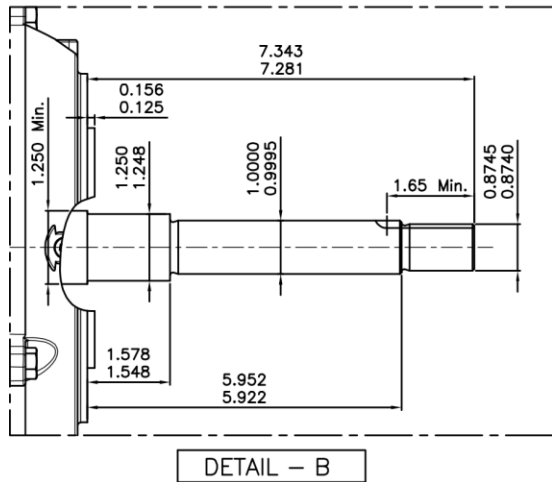
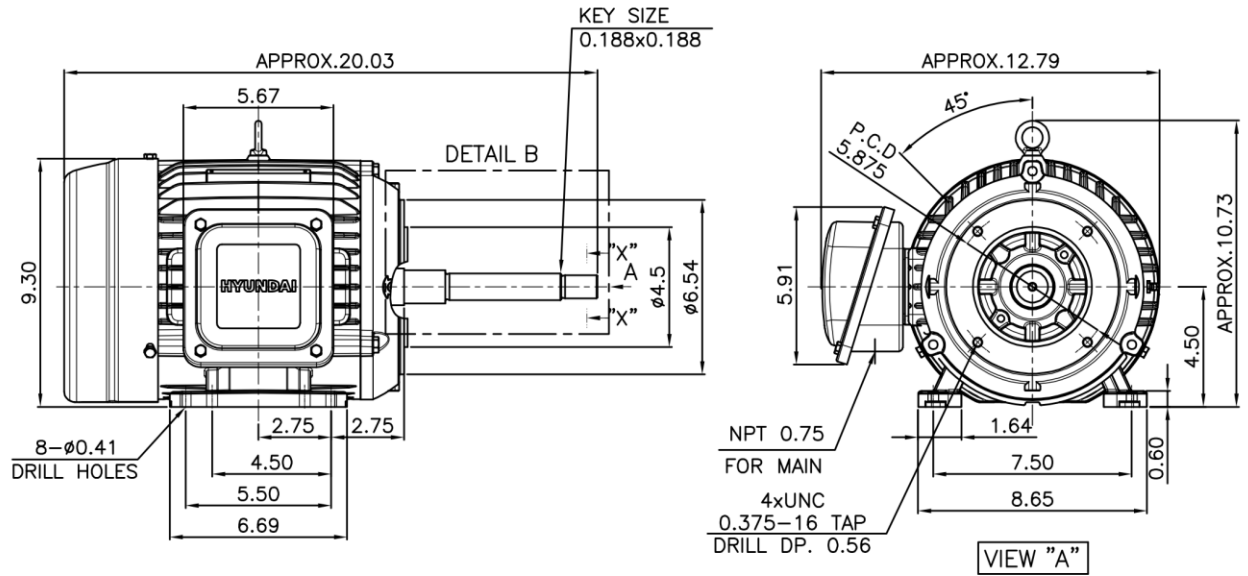
Full Load Current	3.12A	3.91A	7.81A
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SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





NOTE

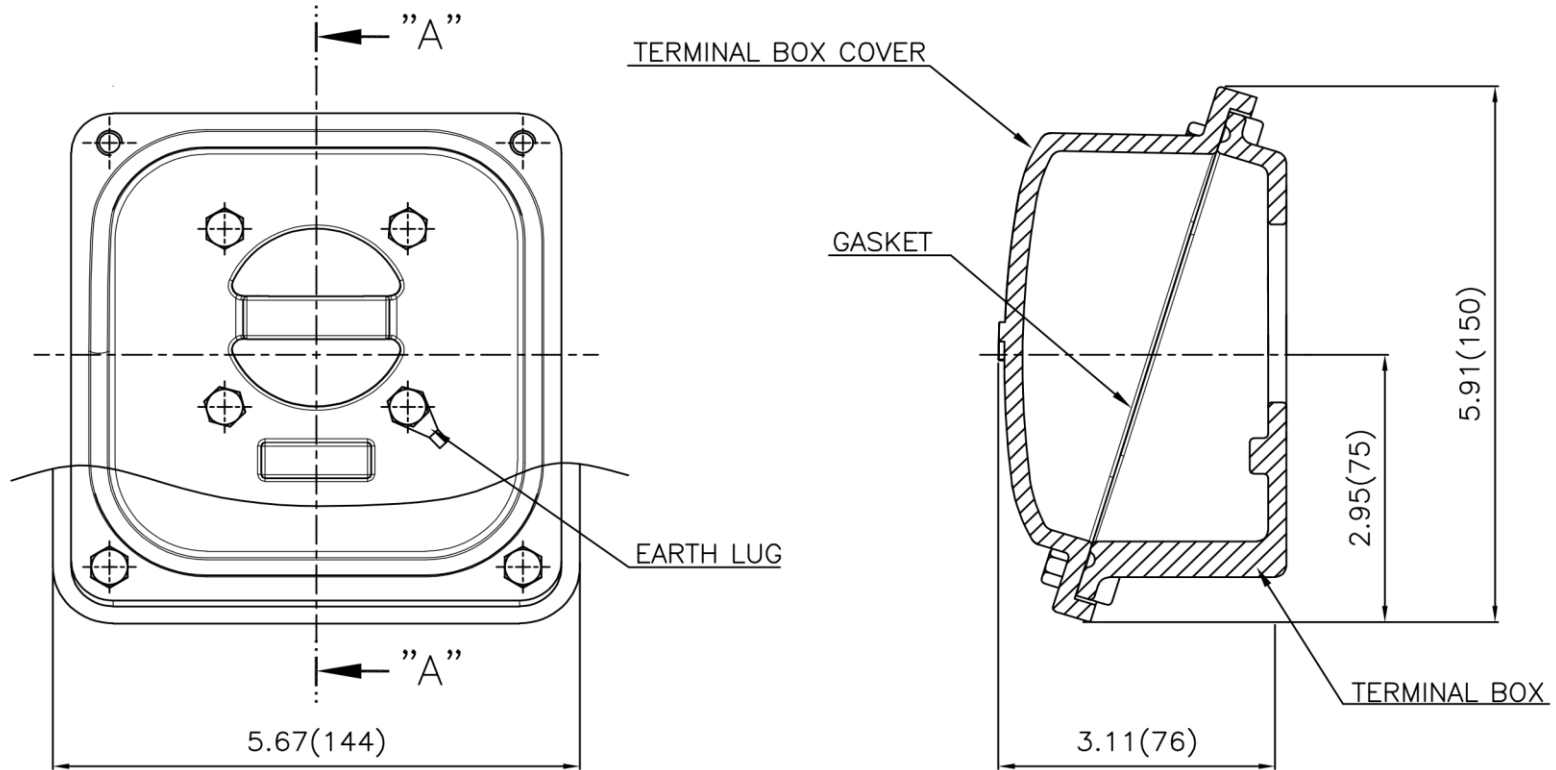
[TOLERANCE]

1. CENTER HEIGHT : +0.00inch - 0.03inch
2. SHAFT DIAMETER : +0.000inch - 0.0005inch
3. KEYWAY DEPTH : +0.000inch - 0.015inch

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	NEMA 182/4TC (JP) (Dual hole)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/7	TITLE	OUTLINE	A4 (1/7)
CHKD BY		PROJEC'N	3rd Angle			
DSND BY	S.H.LEE	DATE	2025-01-17	REF. NO		Sheet No. of
				DWG NO	LM-T2184C4JLV25	Revision No. 1

Cls. I&II, Div. 2

IEEE 841



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						

일반가공공차		일반재공공차	
1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR. 140-180 (CAST IRON)	DWG SIZE	
CHKD BY		SCALE	1/1.5	TITLE	TERMINAL BOX ASS'Y	A3 (1:1.5)	
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	네슬피	DATE	2023-10-19	DWG NO	3M-248456	Revision No.	0

