

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

Model No. or RFQ No.		Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA			
Frame Size	182T		Rated Output	2.2 kW 3.0 HP		
Type	PJP		Number of Poles	4		
Enclosure(Protection)	Totally Enclosed / IP55		Rotor Type	Squirrel Cage		
Method of Cooling	IC411(FC)		Starting Method*	<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-Δ		
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	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Locked-rotor**	930 %	930 % 930 %
Temp. Rise at full load (by resistance method)	at 1.0 S.F 80 deg. C		Efficiency	50% Load	86.5 %	
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load	88.5 %	
Altitude	Less than 1000 meter			100% Load	89.5 %	
Relative Humidity	Less than 80 %		Power Factor(p.u)	50% Load	0.640	
Ambient Temp.	40 deg. C (Max.)			75% Load	0.740	
Duty Type	Continuous (S1)			100% Load	0.790	
Service Factor			Speed at Full Load	1770 r.p.m		
Mounting	B3		Torque	Full Load	8.8 lb.ft	
Bearing	Type	Anti-Friction		Locked-rotor**	220 %	
	DE/N-DE	6206ZZC3 / 6206ZZC3		Breakdown**	280 %	
Lubricant	Grease		Moment of Inertia (J)	Load(Max.)	20.204 lb.ft ²	
External Thrust	Not applicable			Motor	0.190 lb.ft ²	
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Sound Pressure Level (No-load & mean value at 1m from motor)	60 dB(A)		
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double			Vibration	3.8 mm/sec (peak)	
Terminal	Main	<input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Cast Iron	Permissible number of consecutive starts	Cold	3 times	
Box	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Hot	2 times	
Location	Refer to Outline Drawing		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	
Application			SUBMITTAL DRAWING			
Area classification	Hazardous		Outline Dimension Drawing \ Motor Weight(Approx.)			
Type of Ex-Protection	Class I & II, Division 2		B3	LM-T2182B3PLV23	105 lb.	
Applicable Standard	NEMA MG1, CSA C390					

ACCESSORIES	SUBMITTAL DRAWING												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3">Outline Dimension Drawing \ Motor Weight(Approx.)</td> </tr> <tr> <td style="text-align: center;">B3</td> <td style="text-align: center;">LM-T2182B3PLV23</td> <td style="text-align: center;">105 lb.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Outline Dimension Drawing \ Motor Weight(Approx.)			B3	LM-T2182B3PLV23	105 lb.						
Outline Dimension Drawing \ Motor Weight(Approx.)													
B3	LM-T2182B3PLV23	105 lb.											

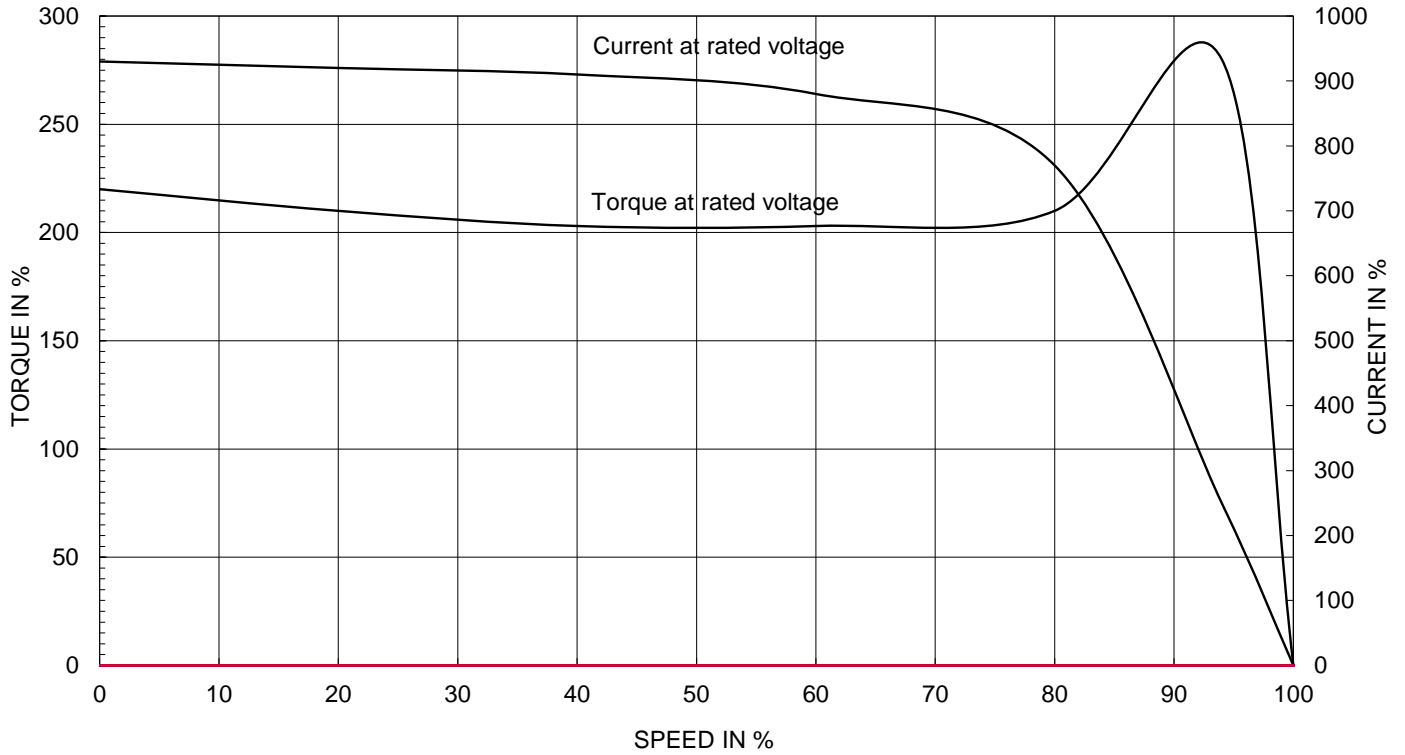
REMARK											
	<ol style="list-style-type: none"> 1. Premium efficiency according to NEMA MG1 2. Inverter Duty @ 1.0 Service Factor & F Temperature rise <ul style="list-style-type: none"> - 10:1 VT (20:1 VT at 50% load) - 10:1 CT - CHP up to 1.5 times base speed 3. CSA Certification <ul style="list-style-type: none"> - 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. 										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Date</td> <td style="width: 15%;">DSND</td> <td style="width: 15%;">CHKD</td> <td style="width: 15%;">CHKD</td> <td style="width: 15%;">APPD</td> </tr> <tr> <td>2023-11-13</td> <td>I.S. Ko</td> <td>S.H. Lee</td> <td>Y.K. Kim</td> <td>S.Y. Kim</td> </tr> </table>	Date	DSND	CHKD	CHKD	APPD	2023-11-13	I.S. Ko	S.H. Lee	Y.K. Kim	S.Y. Kim
Date	DSND	CHKD	CHKD	APPD							
2023-11-13	I.S. Ko	S.H. Lee	Y.K. Kim	S.Y. 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.

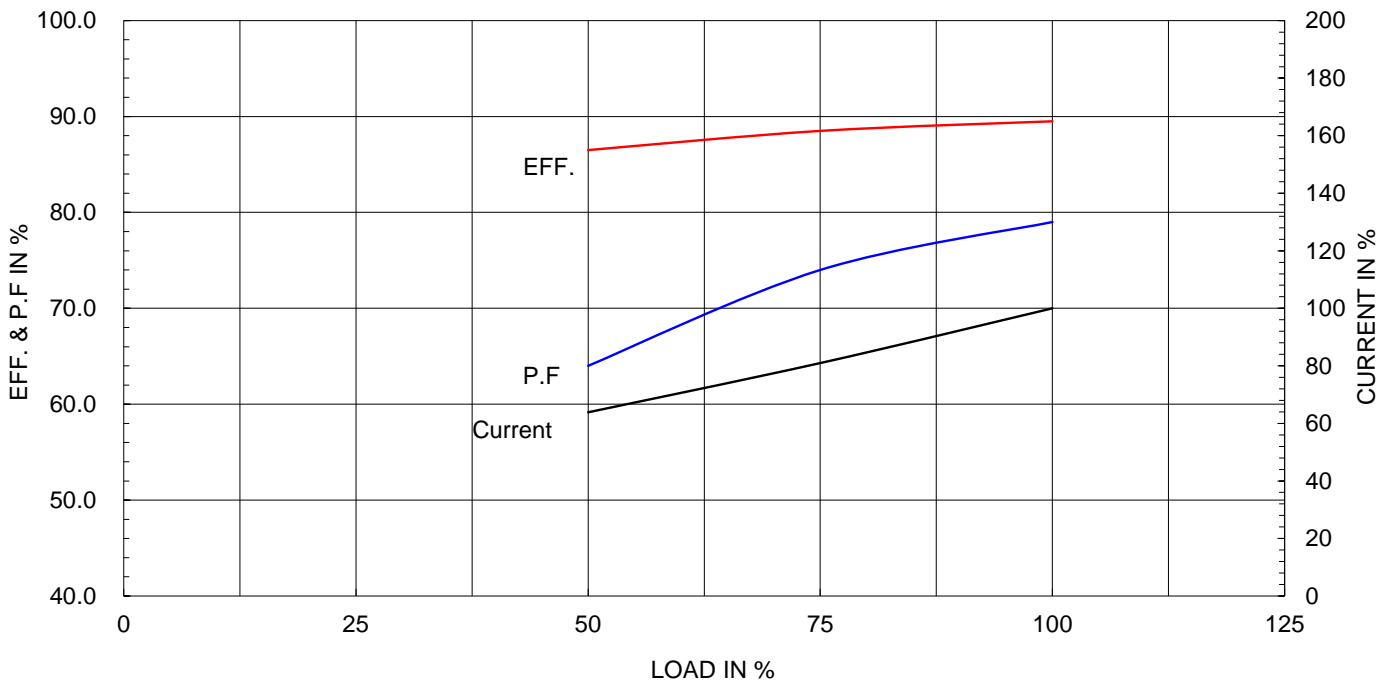
Type :	PJP
Full Load Torque :	8.8 lb.ft
Load moment of Inertia (J) :	- lb.ft2
Motor moment of Inertia (J) :	0.190 lb.ft2

2.2 kW	3 HP	4 P	60 Hz
Speed at Full Load :			1770 RPM
Rated Voltage	575V	460V	230V
Full Load Current	3.1A	3.9A	7.8A

SPEED VS TORQUE & CURRENT CURVE



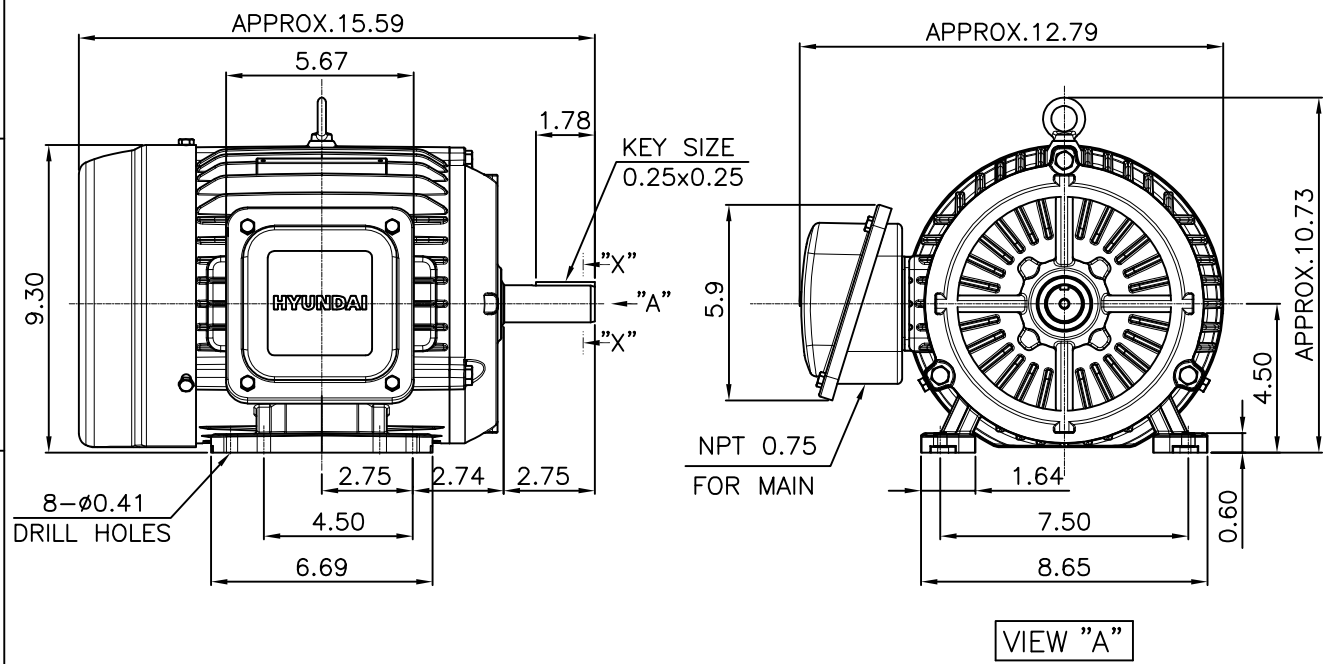
OUTPUT VS EFF., P.F & CURRENT CURVE



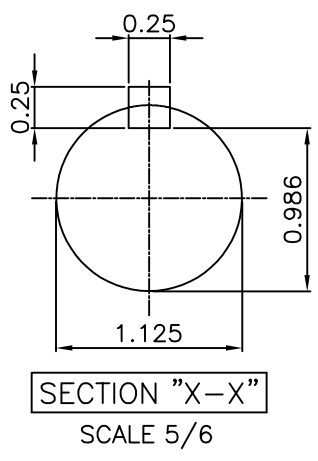
본 도면은 HD현대일렉트릭(주) 재산이며
 허가없이 복사할 수 없음 (취급주의)

THIS DRAWING IS PROPRIETARY TO HYUNDAI ELECTRIC. NO PART OF THIS DRAWING
 MAYBE REPRODUCED WITHOUT THE PERMISSION OF HYUNDAI ELECTRIC.

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



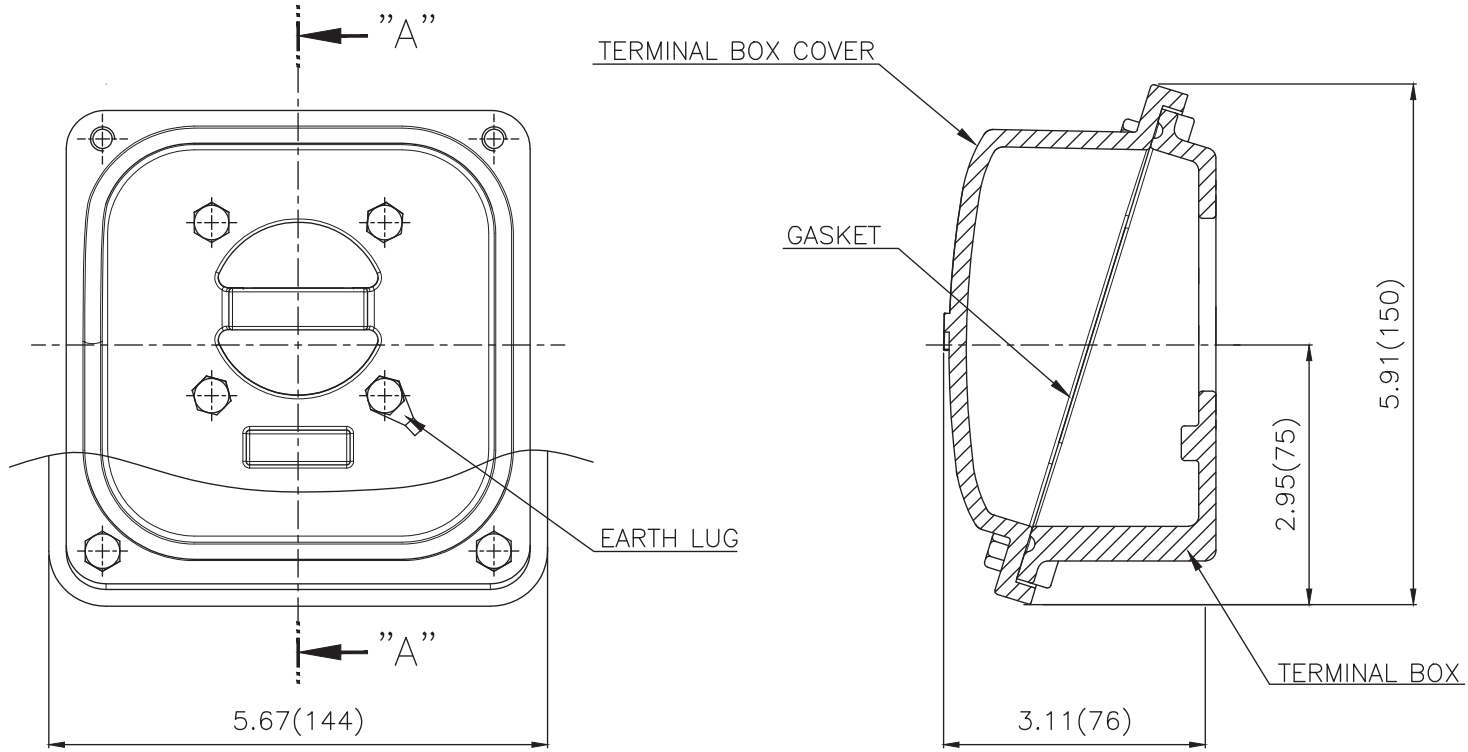
- NOTE**
[TOLERANCE]
- CENTER HEIGHT : +0.00inch - 0.03inch
 - SHAFT DIAMETER : +0.000inch - 0.0005inch
 - KEYWAY DEPTH : +0.000inch - 0.015inch



APPD BY	S.Y.KIM	UNIT	mm	SUBJECT	NAMA 182T	DWG SIZE	A4 (16)
CHKD BY	R.G.KIM	SCALE	1/6	TITLE	OUTLINE		
CHKD BY		PROJEC'N	3rd Angle				
DSND BY	주유림	DATE	2021-04-28				
				REF. NO		Sheet No.	of
				DWG NO	LM-T2182B3PLV23	Revision No.	0



**Cls. I&II, Div. 2
IEEE 841**



SEC. "A"-"A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

일반가공공차		일반제관공차	
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	A3 (1:1.5)
CHKD BY		SCALE	1/1.5	TITLE			
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	TERMINAL BOX ASS'Y			
DSND BY	배승희	DATE	2023-10-19	REF. NO		Sheet No.	of
				DWG NO	3M-248456	Revision No.	0

