

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	215T	Rated Output	7.5 kW	10.0 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	10.40 A	12.99 A	25.99 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	750 %	750 %	750 %
Temp. Rise at full load (by resistance method)		Efficiency				
at 1.0 S.F    80 deg. C		50% Load		88.7 %		
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load		90.7 %		
Altitude    Less than 1000 meter		100% Load		91.7 %		
Relative Humidity    Less than 80 %		Power Factor(p.u)				
Ambient Temp.    40 deg. C (Max.)		50% Load		0.640		
Duty Type    Continuous (S1)		75% Load		0.740		
Service Factor		100% Load		0.790		
Mounting    B3		Speed at Full Load		1770 r.p.m		
Bearing	Type    Anti-Friction	Torque				
	DE/N-DE    6208ZZC3 / 6208ZZC3	Full Load		29.9 lb.ft		
	Lubricant    Grease	Locked-rotor**		180 %		
External Thrust    Not applicable		Breakdown**		240 %		
Coupling Method <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)				
Shaft Extension <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.)		62.787 lb.ft <sup>2</sup>		
Terminal Box	Main <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Cast Iron	Motor		0.712 lb.ft <sup>2</sup>		
	Aux. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location    Refer to Outline Drawing	62 dB(A)				
Application		Vibration		3.8 mm/sec (peak)		
Area classification    Hazardous		Permissible number of consecutive starts		Cold    3 times		
Type of Ex-Protection    Class I & II, Division 2				Hot    2 times		
Applicable Standard    NEMA MG1, CSA C390		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		

ACCESSORIES	SUBMITTAL DRAWING
	Outline Dimension Drawing \ Motor Weight(Approx.)
	B3    LM-T2215B3PLV23    175 lb.

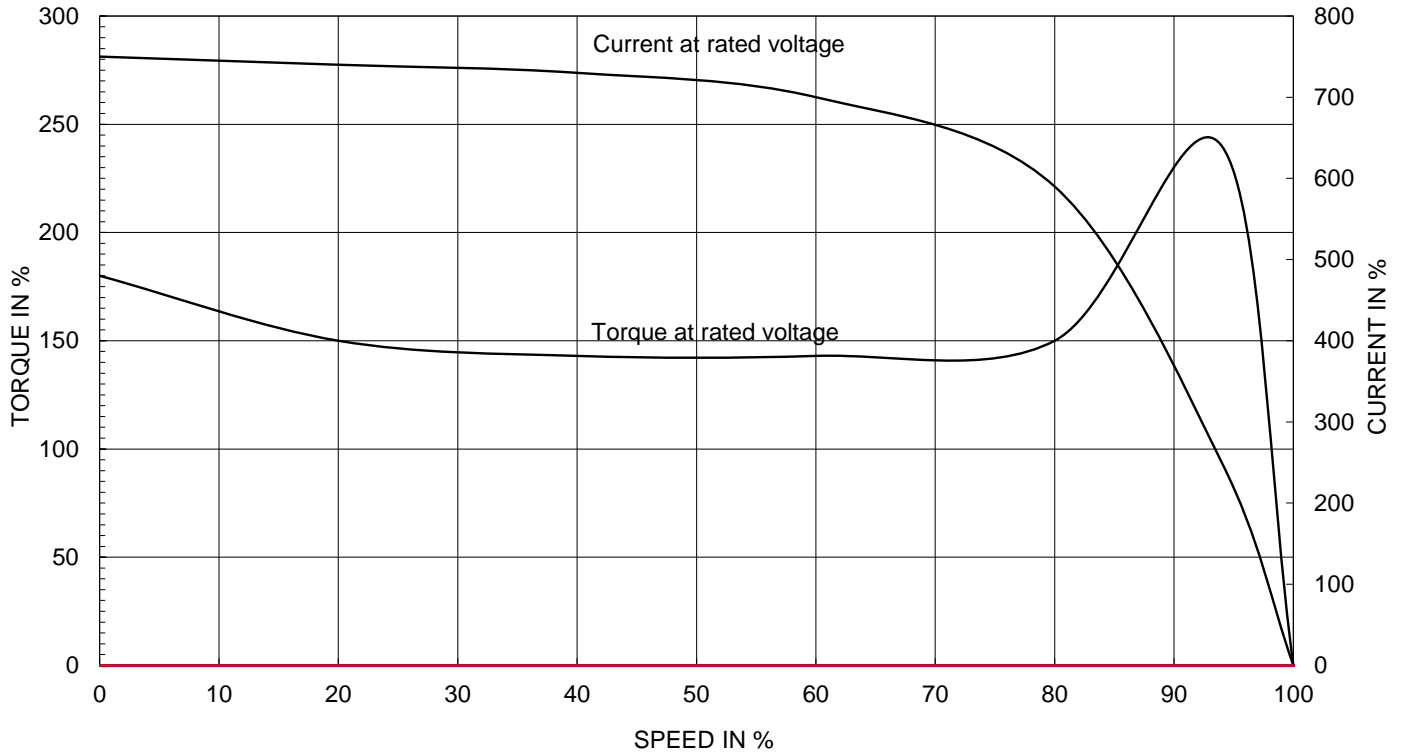
REMARK										
1. Premium efficiency according to NEMA MG1 2. Inverter Duty @ 1.0 Service Factor & F Temperature rise - 10:1 VT (20:1 VT at 50% load) - 10:1 CT - CHP up to 1.5 times base speed 3. CSA Certification - Class I, Division 2, Group A, B, C & D - Class II, Division 2 Group E, F & G (Group 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.										
<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.

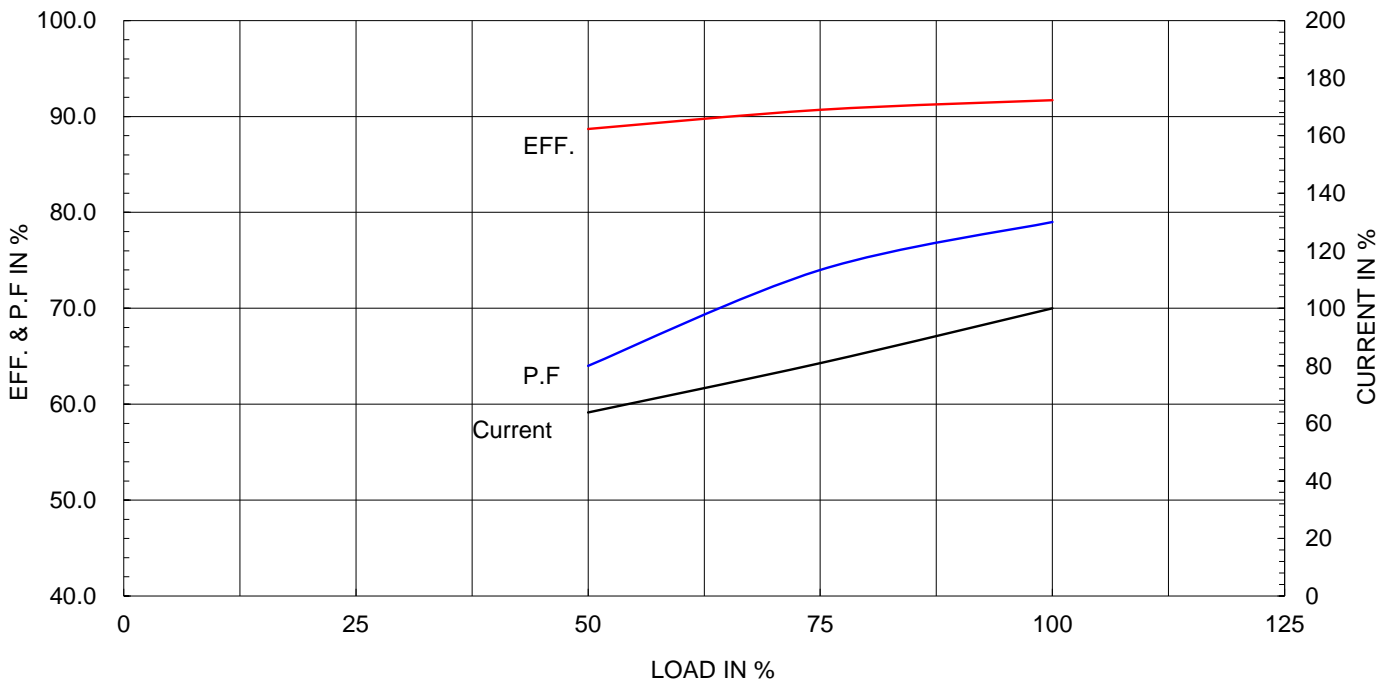
Type :	PJP
Full Load Torque :	29.9 lb.ft
Load moment of Inertia (J) :	- lb.ft <sup>2</sup>
Motor moment of Inertia (J) :	0.712 lb.ft <sup>2</sup>

7.5 kW	10 HP	4 P	60 Hz
Speed at Full Load :			1770 RPM
Rated Voltage	575V	460V	230V
Full Load Current	10.4A	13.0A	26.0A

SPEED VS TORQUE & CURRENT CURVE



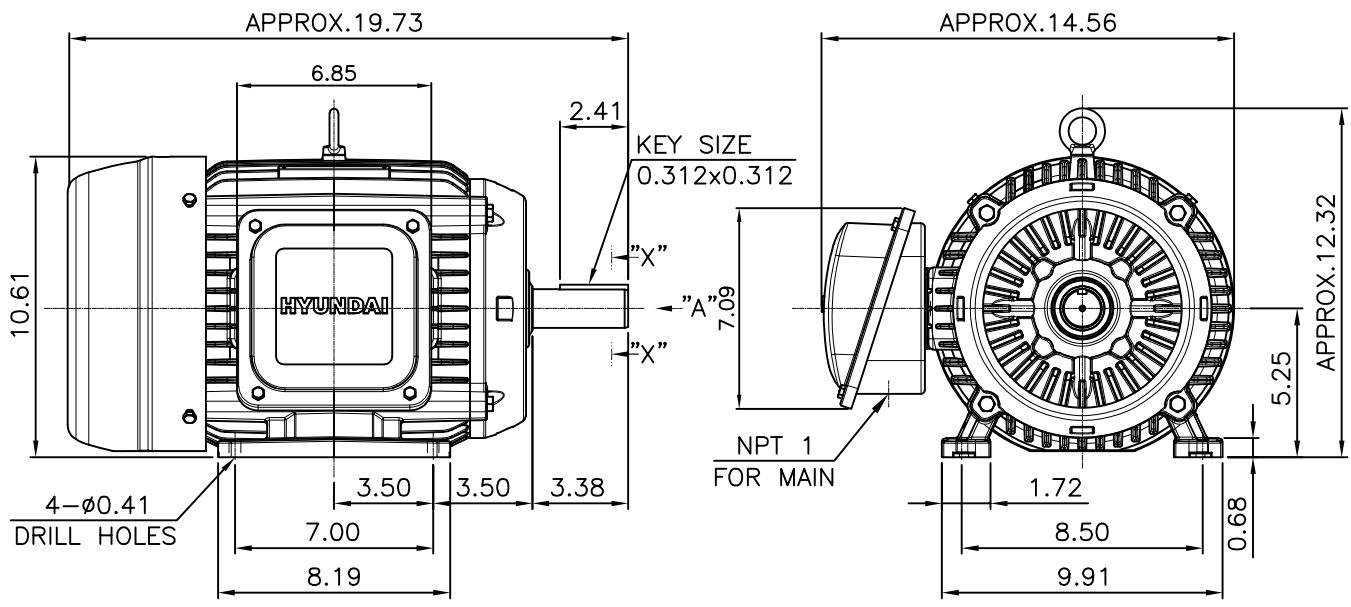
OUTPUT VS EFF., P.F & CURRENT CURVE



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

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							

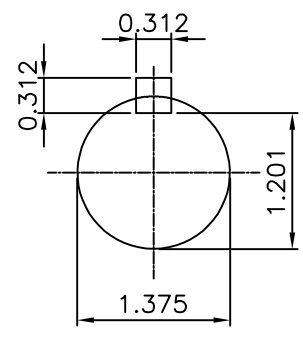


VIEW "A"

NOTE

[TOLERANCE]

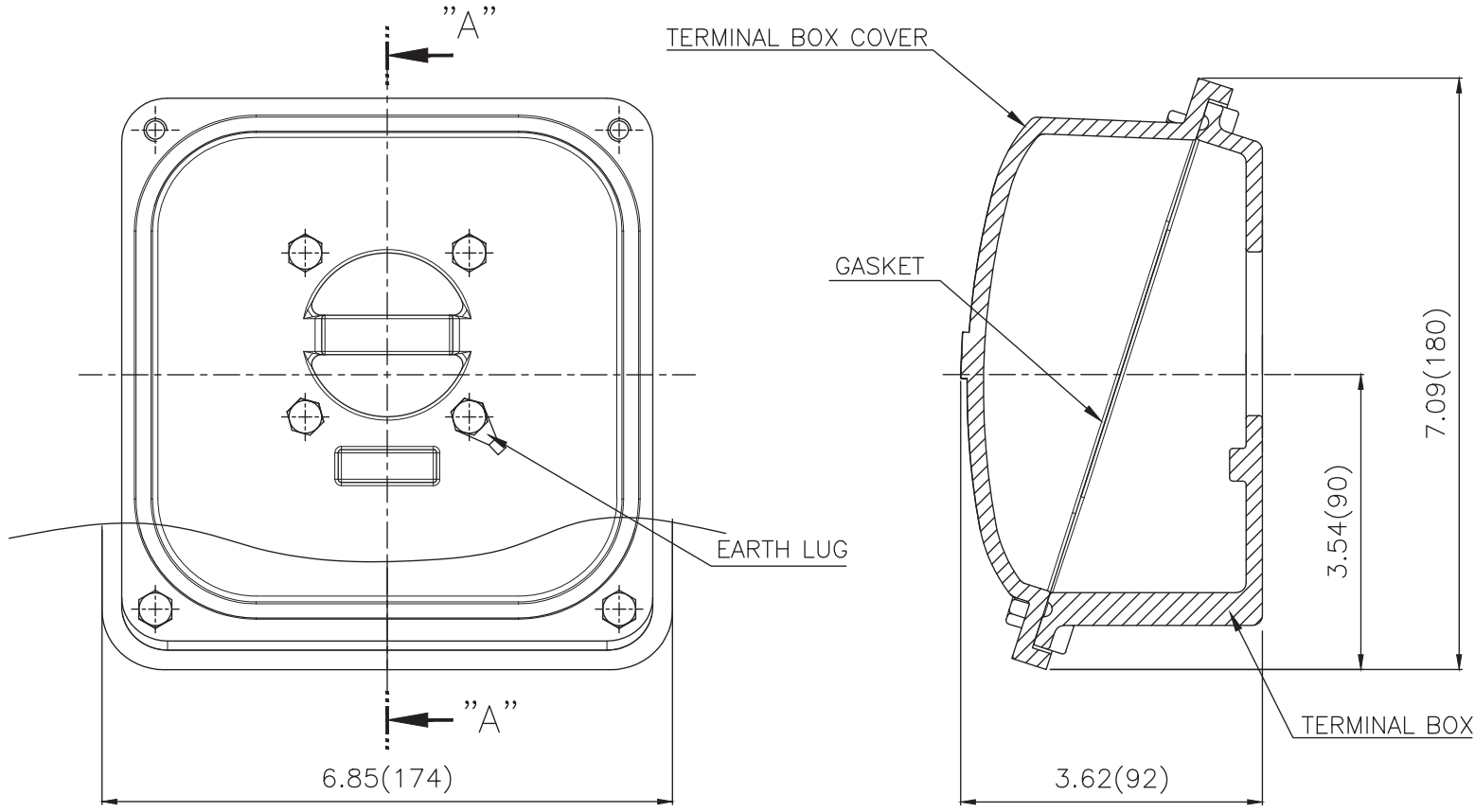
- CENTER HEIGHT : +0.00inch - 0.03inch
- SHAFT DIAMETER : +0.000inch - 0.0005inch
- KEYWAY DEPTH : +0.000inch - 0.015inch



SECTION "X-X"  
SCALE 4/7

APPD BY	S.Y.KIM	UNIT	mm	SUBJECT	NEMA 215T	DWG SIZE		
CHKD BY	R.G.KIM	SCALE	1/7	TITLE		A4 ( 1:7 )		
CHKD BY		PROJEC'N	3rd Angle			OUTLINE		
DSND BY	주유림	DATE	2021-04-28					
				REF. NO		Sheet No.	of	
				DWG NO	LM-T2215B3PLV23	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

일반기공공차		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. 210 (CAST IRON)	DWG SIZE	
CHKD BY		SCALE	1/1.5	TITLE		A3 (1:1.5)	
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-248457	Revision No.	0

