

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

---

# SPECIFICATION for INDUCTION MOTOR



## Contents

- |                                      |           |
|--------------------------------------|-----------|
| 1 . Data Sheet of AC Induction Motor | - 1Sheets |
| 2 . Speed-Torque & Current Curve     | - 1Sheets |
| 3 . Outline Dimension Drawing        | - 1Sheets |
| 4 . Main Terminal Box Drawing        | - 1Sheets |

# AC INDUCTION MOTOR DATA SHEET

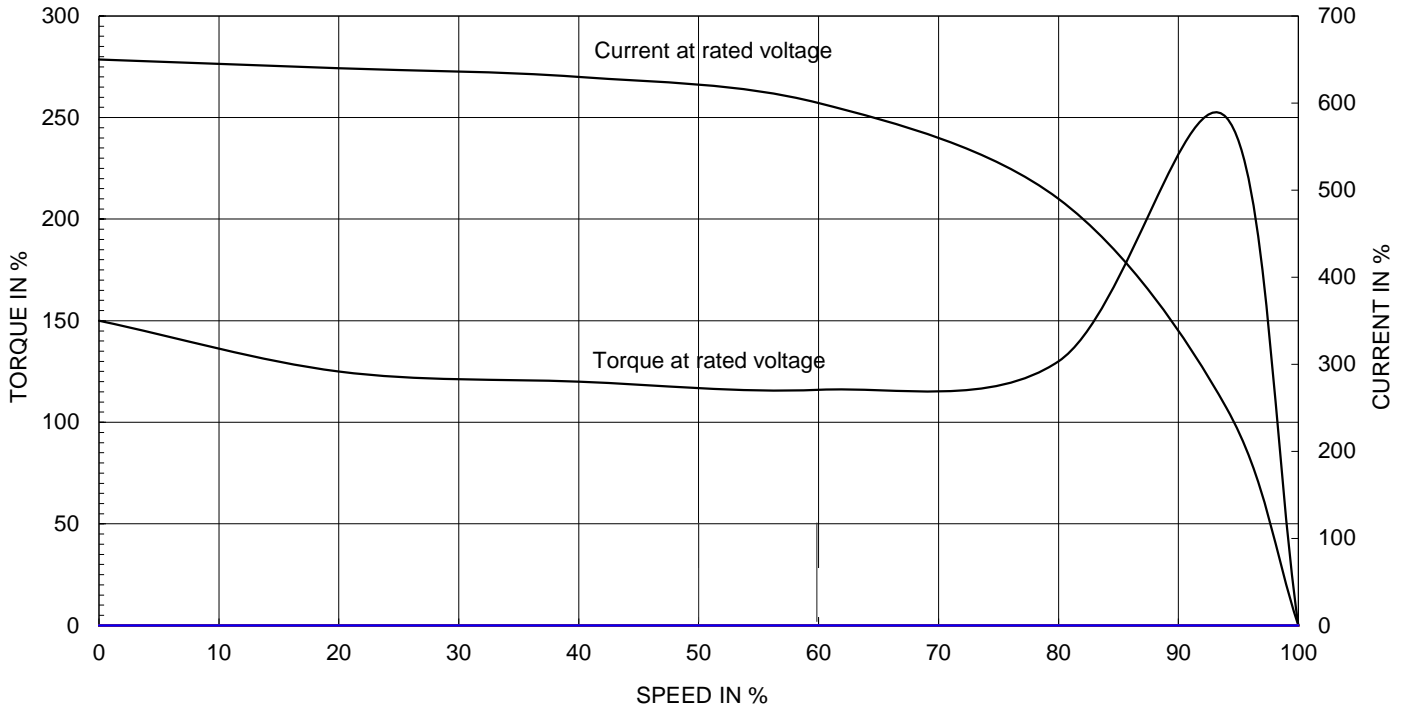
Model No.or RFQ No.	4606KSTD40SSDS1STFE3B31DL0SD3	Item No.		Rev. No.	[     ]		
Project Name		Project No.		Quantity			
<b>GENERAL SPECIFICATION</b>			<b>PERFORMANCE DATA</b>				
Frame Size	180M	Rated Output	22 kW	30 HP			
Type	HLP-22/2	Number of Poles	2				
Enclosure(Protection)	Totally Enclosed ( IP55 )	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	460 V				
Number of Phases	3	Current	Full Load	33.8 A			
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	950 %			
Temp. Rise at full load (by resistance method)		Efficiency					
at 1.0 S.F	80 deg. C	50% Load		90.6 %			
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load		91.9 %			
Altitude	Less than 1000	100% Load		91.7 %			
Relative Humidity	Less than 80 %	Power Factor(p.u)					
Ambient Temp.	40 deg. C (Max.)	50% Load		0.845			
Duty Type	Continuous(S1)	75% Load		0.878			
Service Factor	1.15	100% Load		0.890			
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	3560 r.p.m				
Bearing	Type	Anti-Friction					
	DE/N-DE	6212ZZC3 / 6310ZZC3					
	Lubricant	Grease(Polyrex-EM)					
External Thrust	Not applicable						
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.)		2.850 kg·m <sup>2</sup>			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor		0.088 kg·m <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					
Application		Vibration					
Area classification	Not applicable	Permissible number of consecutive starts		Cold	3 times		
Type of Ex-Protection	Non-Hazardous			Hot	2 times		
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)	Paint	Munsell No.	4.4PB5.5/5.6(VL-451)			
<b>ACCESSORIES</b>			<b>SUBMITTAL DRAWING</b>				
			Outline Dimension Drawing		Motor Weight(Approx.)		
			B3	LM-T1183B3PL001	177 kg		
			Main T-Box Ass'y		3M-145860		
<b>REMARK</b>							
			*.Premium Efficiency(IE3)				
			*.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise				
<b>SPARE PARTS</b>							
			Date	DSND	CHKD		
			2018-04-25	R.G. KIM	-		
				CHKD	APPD		
				O.J. KIM	S.K. HAN		

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 maker standard, if not mentioned.  
 \* In case of Inverter-Fed Motor, performance data is based on sine wave tests.  
 \*\* The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

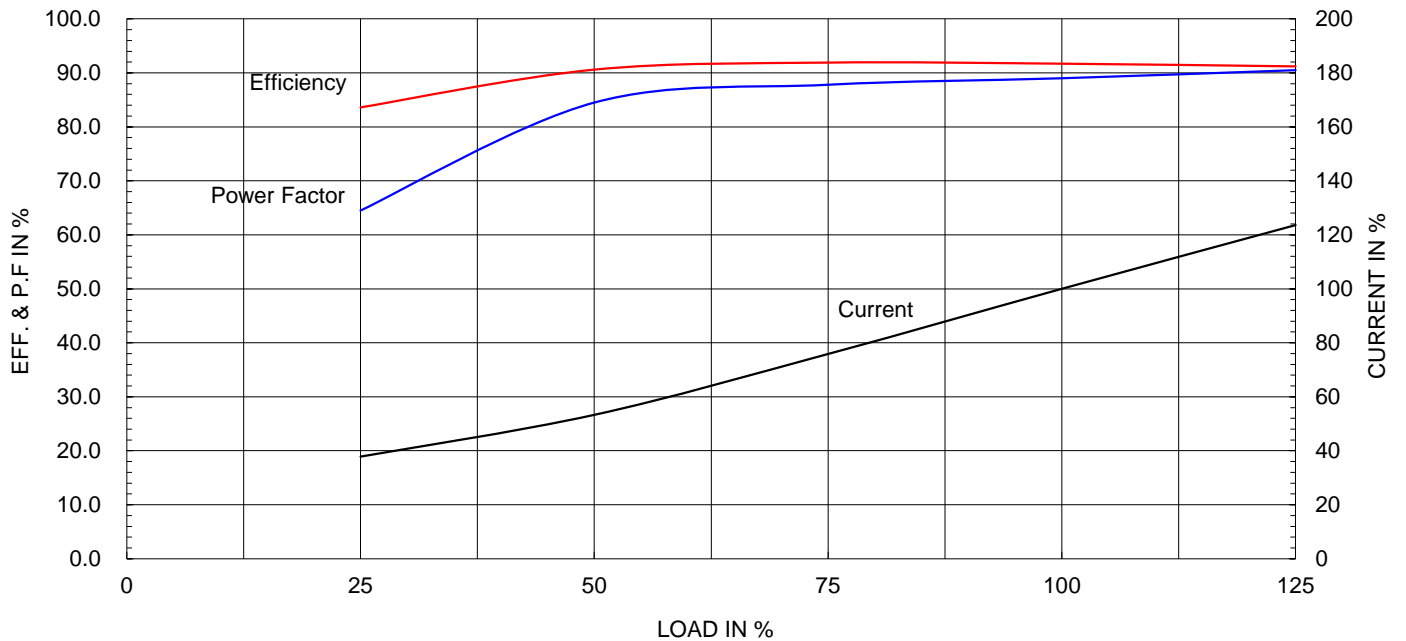
Type :	HLP-22/2	
Full Load Torque :	6.0	kg.m
Motor moment of Inertia (J) :	0.088	kg.m <sup>2</sup>
Load moment of Inertia (J) :	2.850	kg.m <sup>2</sup>

22 kW	2 P	60 Hz
Speed at Full Load :		3560 RPM
Rated Voltage	460V	
Full Load Current	33.8A	

SPEED VS TORQUE &amp; CURRENT CURVE



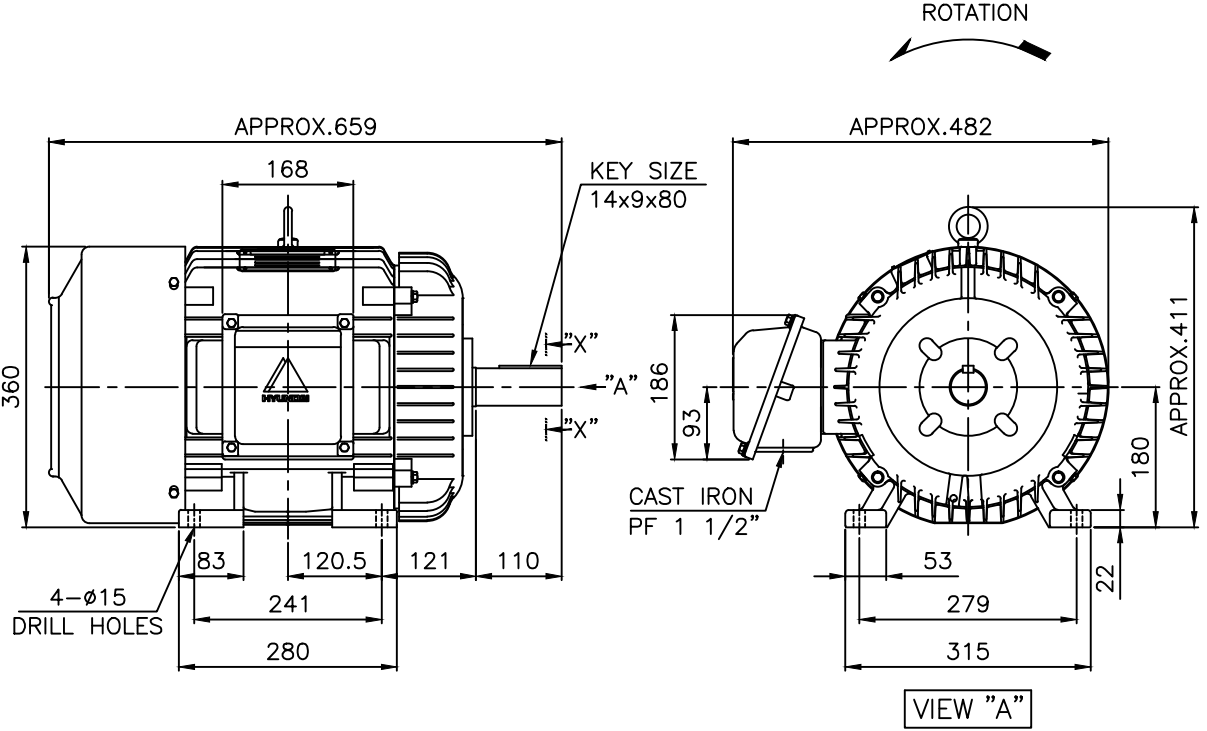
OUTPUT VS EFF., P.F &amp; CURRENT CURVE



본 도면은 현대일렉트릭(주) 재산이므로  
허가없이 복사할 수 없음 (취급주의)

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

	1	2	3	4				
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							

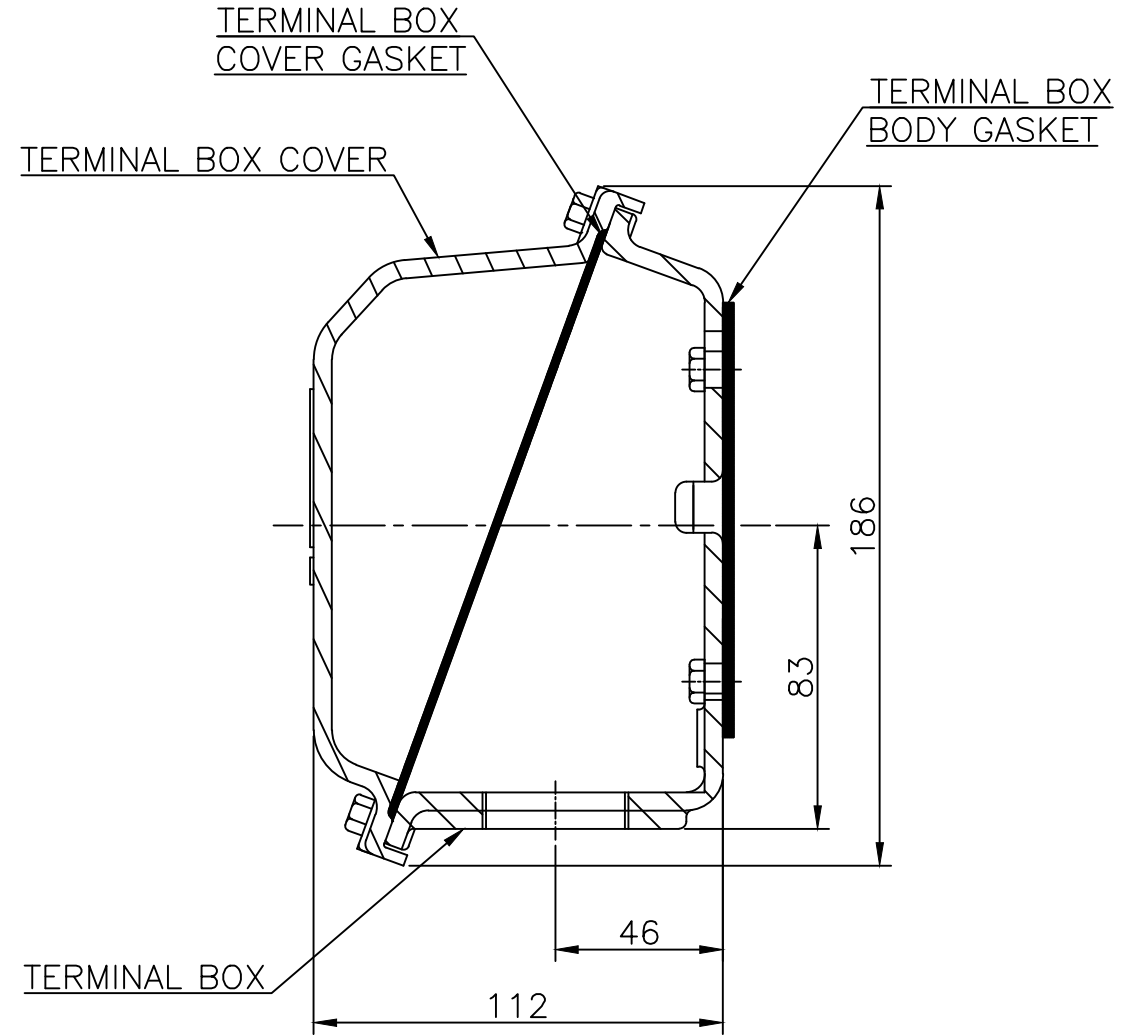
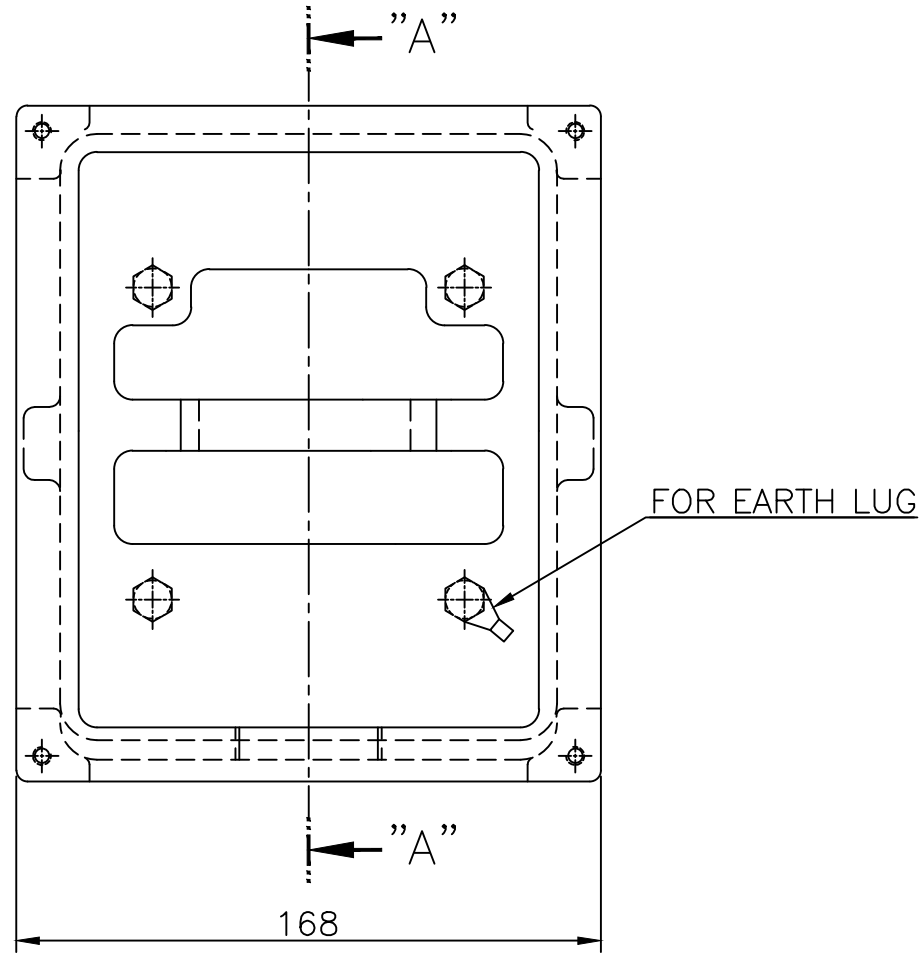


NOTE

1.TOLERANCE :

CENTER HEIGHT	180	<sup>0</sup> / <sub>-0.5</sub>
BASE HOLES	φ15	<sup>+0.43</sup> / <sub>0</sub>
SHAFT DIAMETER	φ48	<sup>+0.018</sup> / <sub>+0.002</sub>
KEYWAY WIDTH	14	<sup>0</sup> / <sub>-0.043</sub>
KEYWAY DEPTH	5.5	<sup>+0.2</sup> / <sub>0</sub>
KEY WIDTH	14	<sup>0</sup> / <sub>-0.043</sub>
KEY HEIGHT	9	<sup>0</sup> / <sub>-0.090</sub>

APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.180M	DWG SIZE	A4 ( 1:9 )
CHKD BY	S.Y.KIM	SCALE	1/9	TITLE	OUTLINE		
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	REF. NO		Sheet No.	of
DSND BY	장성근	DATE	2011-10-22	DWG NO	LM-T1183B3PL001	Revision No.	3



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.K.HAN	UNIT	mm	SUBJECT	FR.160~180 (CAST IRON)		DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/2	TITLE			A3 (1:2)
CHKD BY	R.G.KIM	PROJEC'N	3각법(3rd Angle)	Main Terminal Box Assembly			
DSND BY	H.K.LEE	DATE	2011-08-30	REF. NO.	227B8008LA2	Sheet No.	of
				DWG NO.	3M-145860	Revision No.	2