

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

SPECIFICATION for INDUCTION MOTOR



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AC INDUCTION MOTOR DATA SHEET

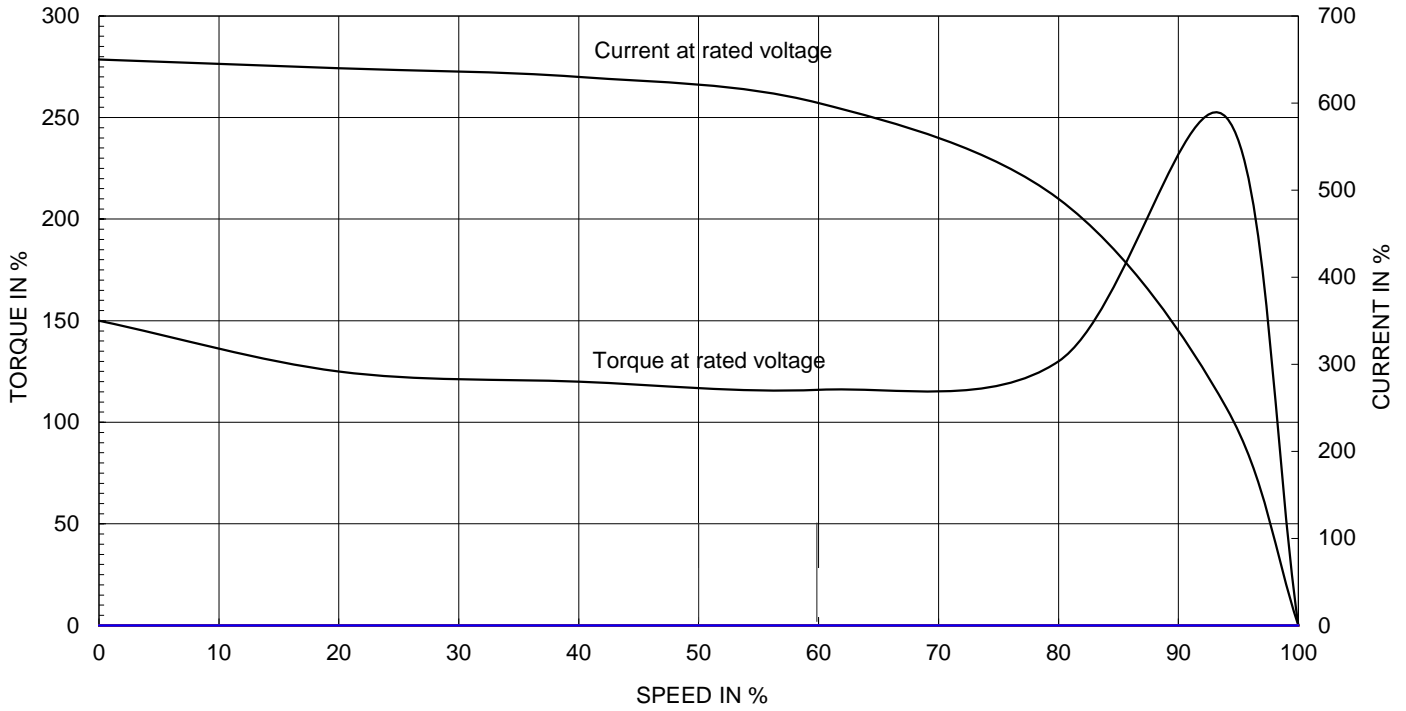
Model No.or RFQ No.	3806KSTD40SSDS1STFE3B31DL0SD3	Item No.		Rev. No.	[]		
Project Name		Project No.		Quantity			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	160M	Rated Output	15 kW	20 HP			
Type	HLP-15/2	Number of Poles	2				
Enclosure(Protection)	Totally Enclosed (IP55)	Rotor Type	Squirrel 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	380 V				
Number of Phases	3	Current	Full Load	28.1 A			
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	880 %			
Temp. Rise at full load (by resistance method) at 1.0 S.F		80 deg. C		Efficiency			
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	50% Load		90.5 %			
Altitude	Less than 1000	75% Load		91.2 %			
Relative Humidity	Less than 80 %	100% Load		91.0 %			
Ambient Temp.	40 deg. C (Max.)	Power Factor(p.u)					
Duty Type	Continuous(S1)	50% Load		0.820			
Service Factor	1.15	75% Load		0.872			
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	100% Load		0.890			
Bearing	Type	Anti-Friction		Speed at Full Load			
	DE/N-DE	6309ZZC3 / 6309ZZC3		3535 r.p.m			
	Lubricant	Grease(Polyrex-EM)		Torque			
External Thrust	Not applicable		Full Load	4.1 kg·m			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Moment of Inertia (J)		Locked-rotor**	180 %		
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	Load(Max.)		2.300 kg·m ²			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor		0.049 kg·m ²		
	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		79 dB(A)			
Application		Vibration		2.2 mm/sec (r.m.s)			
Area classification	Not applicable	Permissible number of consecutive starts		Cold	3 times		
Type of Ex-Protection	Non-Hazardous	Paint		Hot	2 times		
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)	Munsell No.	4.4PB5.5/5.6(VL-451)				
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing		Motor Weight(Approx.)		
			B3	LM-T1163B3PL001	118 kg		
			Main T-Box Ass'y		3M-145860		
			REMARK				
			*.Premium Efficiency(IE3)				
			*.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise				
SPARE PARTS			Date	DSND	CHKD	CHKD	APPD
			2018-04-25	R.G. KIM	-	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.

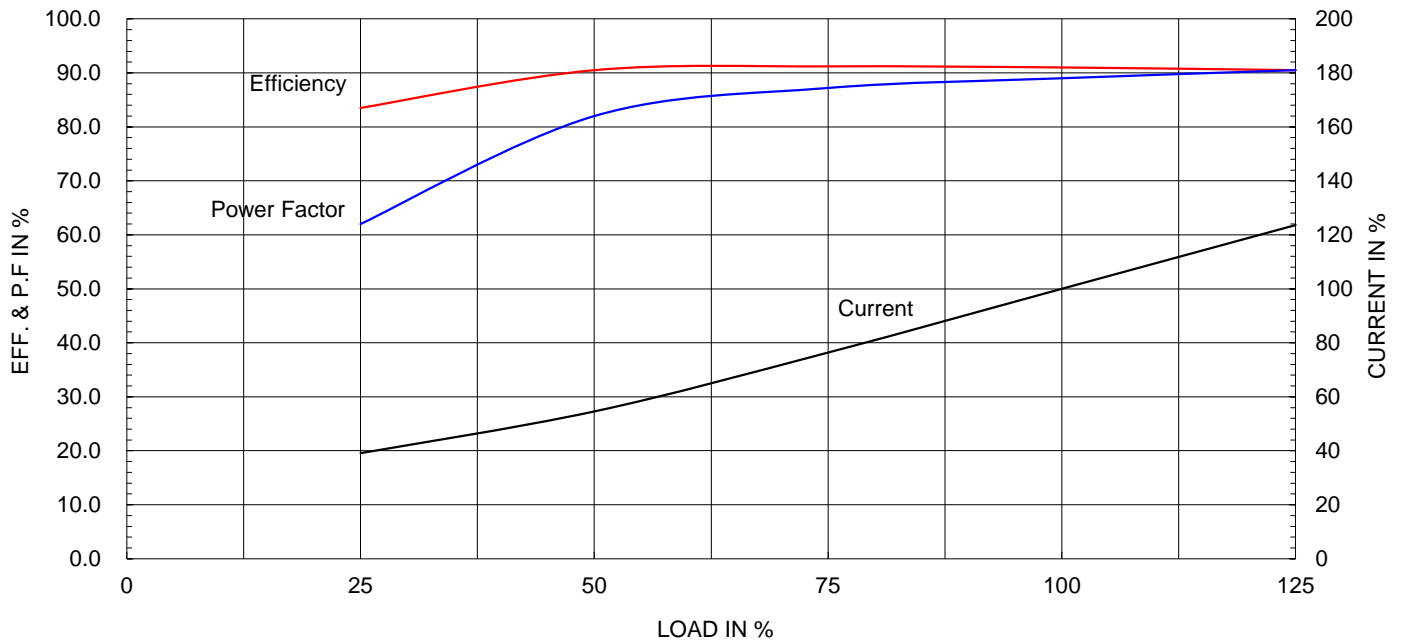
Type :	HLP-15/2	
Full Load Torque :	4.1	kg.m
Motor moment of Inertia (J) :	0.049	kg.m ²
Load moment of Inertia (J) :	2.300	kg.m ²

15 kW	2 P	60 Hz
Speed at Full Load :		3535 RPM
Rated Voltage	380V	
Full Load Current	28.1A	

SPEED VS TORQUE & CURRENT CURVE



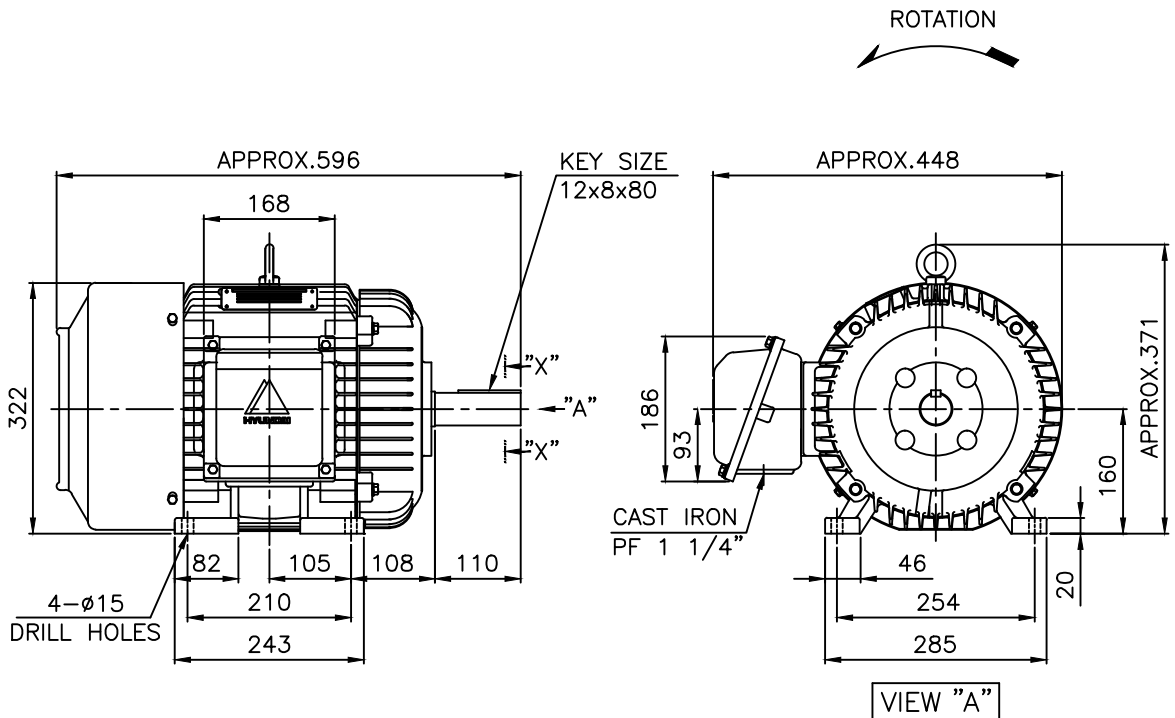
OUTPUT VS EFF., P.F & CURRENT CURVE



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

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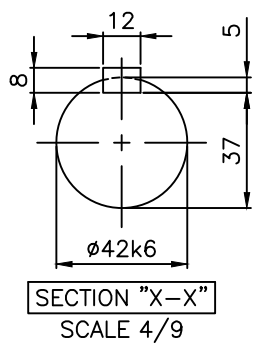
	1	2	3	4				
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



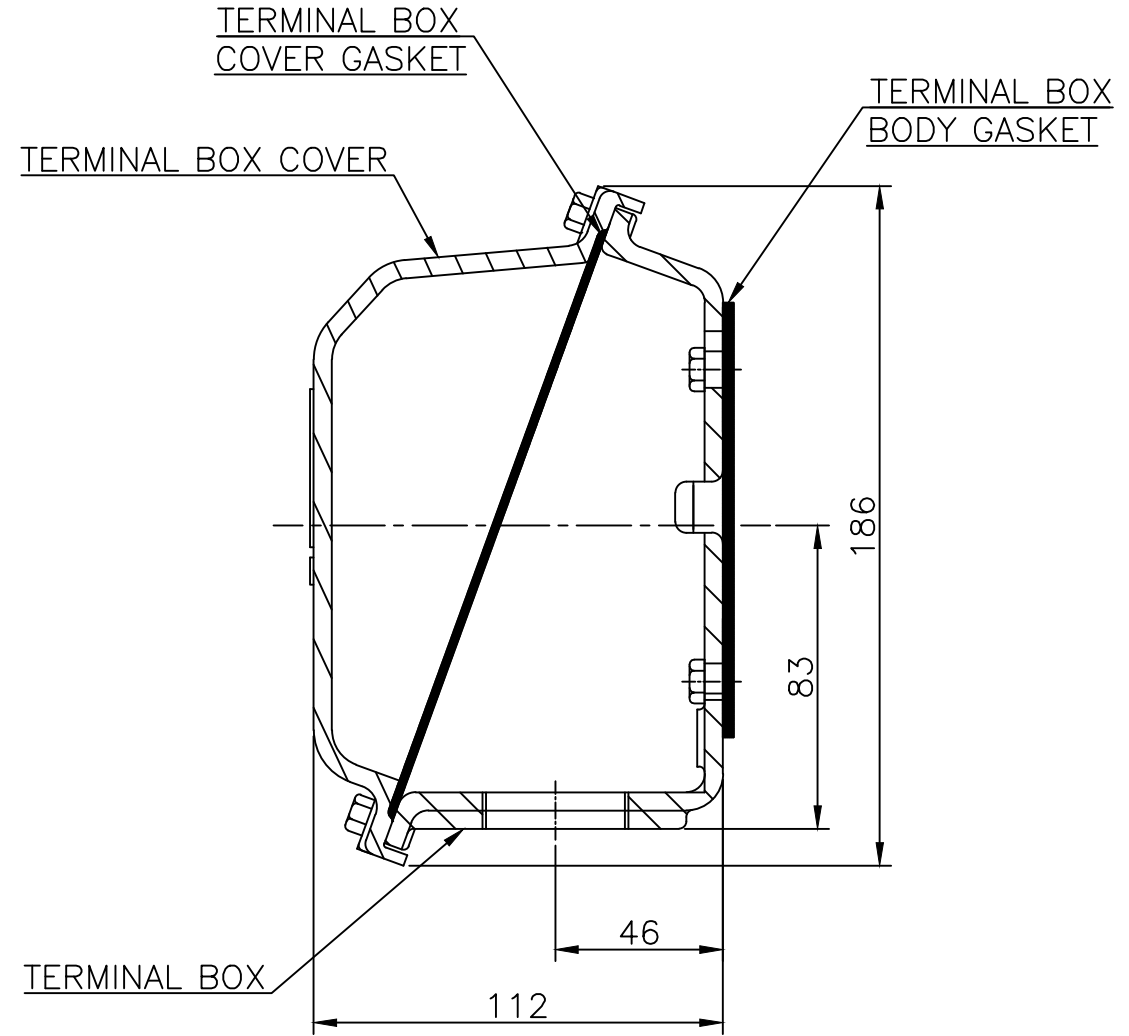
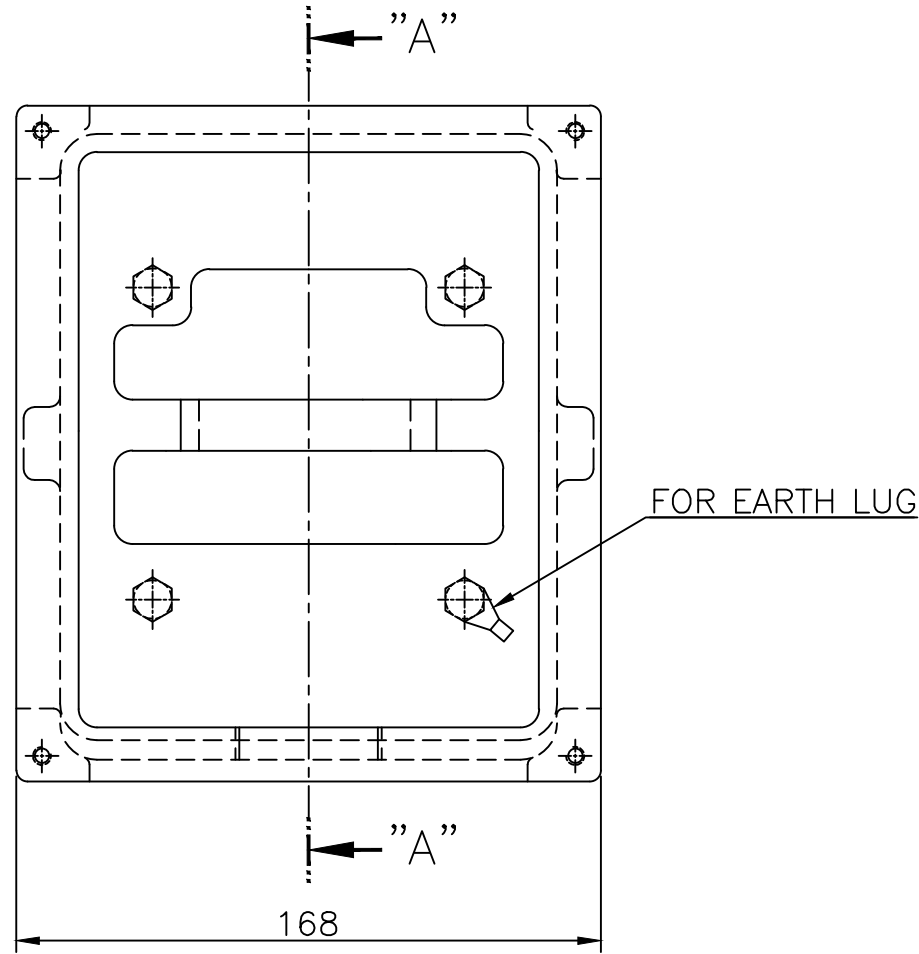
NOTE

1. TOLERANCE :

CENTER HEIGHT	160	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 15$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 42$	$\begin{matrix} +0.018 \\ +0.002 \end{matrix}$
KEYWAY WIDTH	12	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEYWAY DEPTH	5	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	12	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEY HEIGHT	8	$\begin{matrix} 0 \\ -0.090 \end{matrix}$



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.160M	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)				
DSND BY	S.H.YUN	DATE	2011-11-11				
				REF. NO		Sheet No.	of
				DWG NO	LM-T1163B3PL001	Revision No.	4



▽	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