

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.		2206KSTD40SSDS1STFE3B31DL0SD3		Item No.		Rev. No.		[]	
Project Name				Project No.		Quantity			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		160L		Rated Output		11 kW		15 HP	
Type		HLP-11/6		Number of Poles		6			
Enclosure(Protection)		Totally Enclosed (IP55)		Rotor Type		Squirrel Cage			
Method of Cooling		IC411(FC)		Starting Method*		☒ D.O.L ☐ Y-Δ			
Rated Frequency		60 Hz		Rated Voltage		220 V			
Number of Phases		3		Current		Full Load		41.4 A	
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		670 %	
Temp. Rise at full load (by resistance method)				Efficiency					
at 1.0 S.F		80 deg. C				50% Load		91.0 %	
Motor Location		☒ Indoor ☐ Outdoor				75% Load		91.8 %	
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		0.635	
Duty Type		Continuous(S1)				75% Load		0.720	
Service Factor		1.15				100% Load		0.760	
Mounting		☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		1175 r.p.m			
Bearing	Type	Anti-Friction		Torque					
	DE/N-DE	6309ZZC3 / 6309ZZC3				Full Load		9.1 kg·m	
	Lubricant	Grease(Polyrex-EM)				Locked-rotor**		160 %	
External Thrust		Not applicable				Breakdown**		240 %	
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)					
Shaft Extension		☒ Single ☐ Double				Load(Max.)		20.250 kg·m²	
Terminal Box	Main	☐ Steel ☒ Cast Iron				Motor		0.130 kg·m²	
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)					
	Location	Refer to Outline Drawing				66 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				Hot		2 times	
Applicable Standard		KS, IEC, NEMA MG1 Part30(Vpeak)		Paint		Munsell No.		4.4PB5.5/5.6(VL-451)	
ACCESSORIES				SUBMITTAL DRAWING					
				Outline Dimension Drawing		\		Motor Weight(Approx.)	
				B3		LM-T1165B3PL001		136 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.

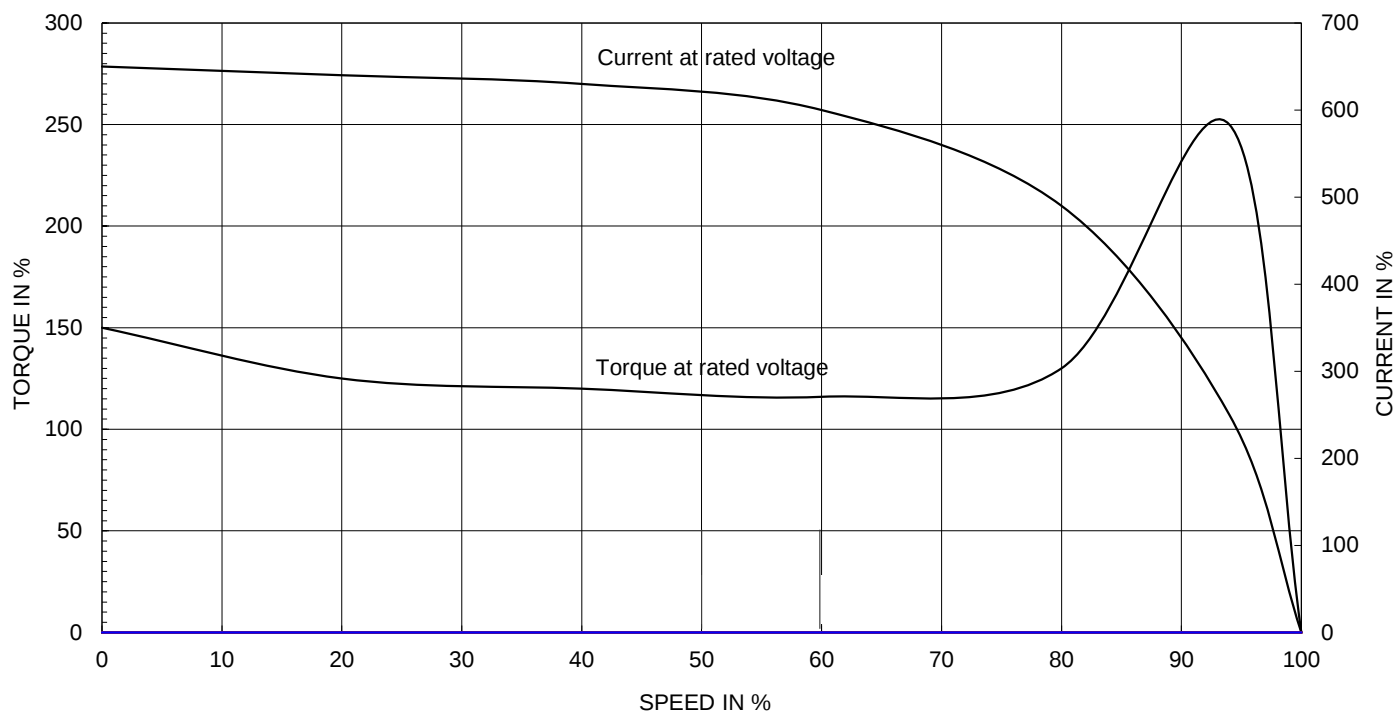
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

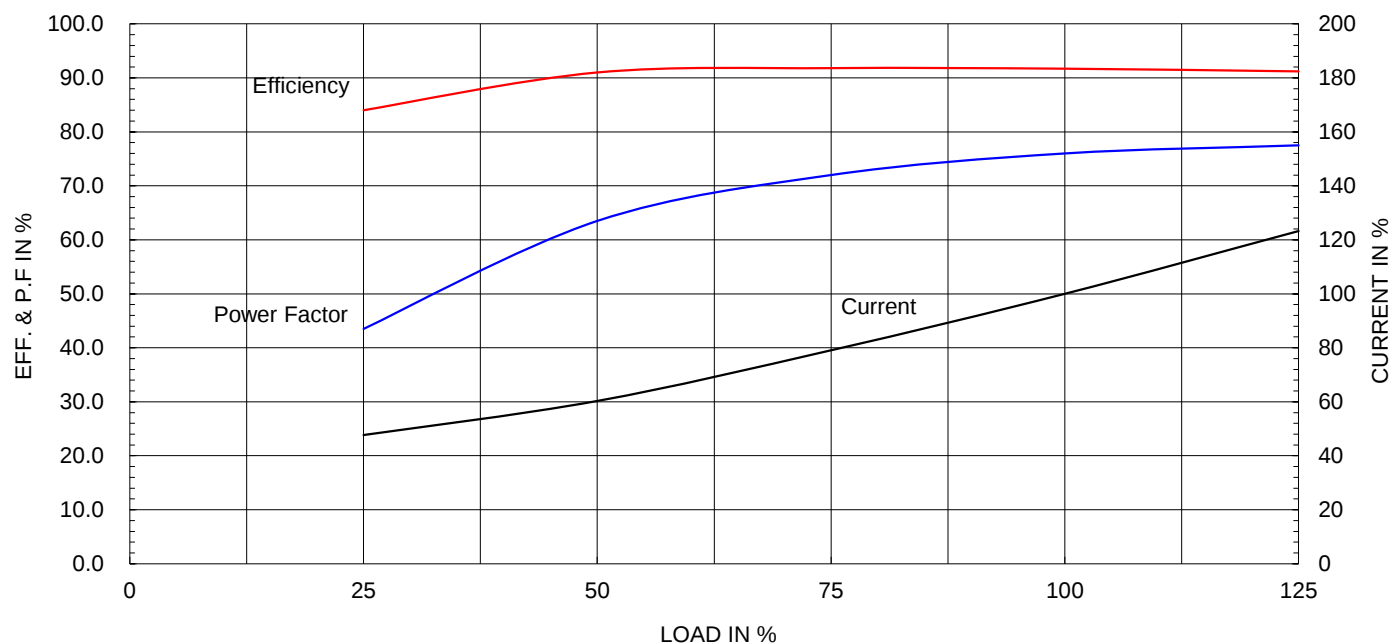
Type :	HLP-11/6	
Full Load Torque :	9.1	kg.m
Motor moment of Inertia (J) :	0.130	kg.m ²
Load moment of Inertia (J) :	20.250	kg.m ²

11 kW	6 P	60 Hz
Speed at Full Load : 1175 RPM		
Rated Voltage	220V	
Full Load Current	41.4A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

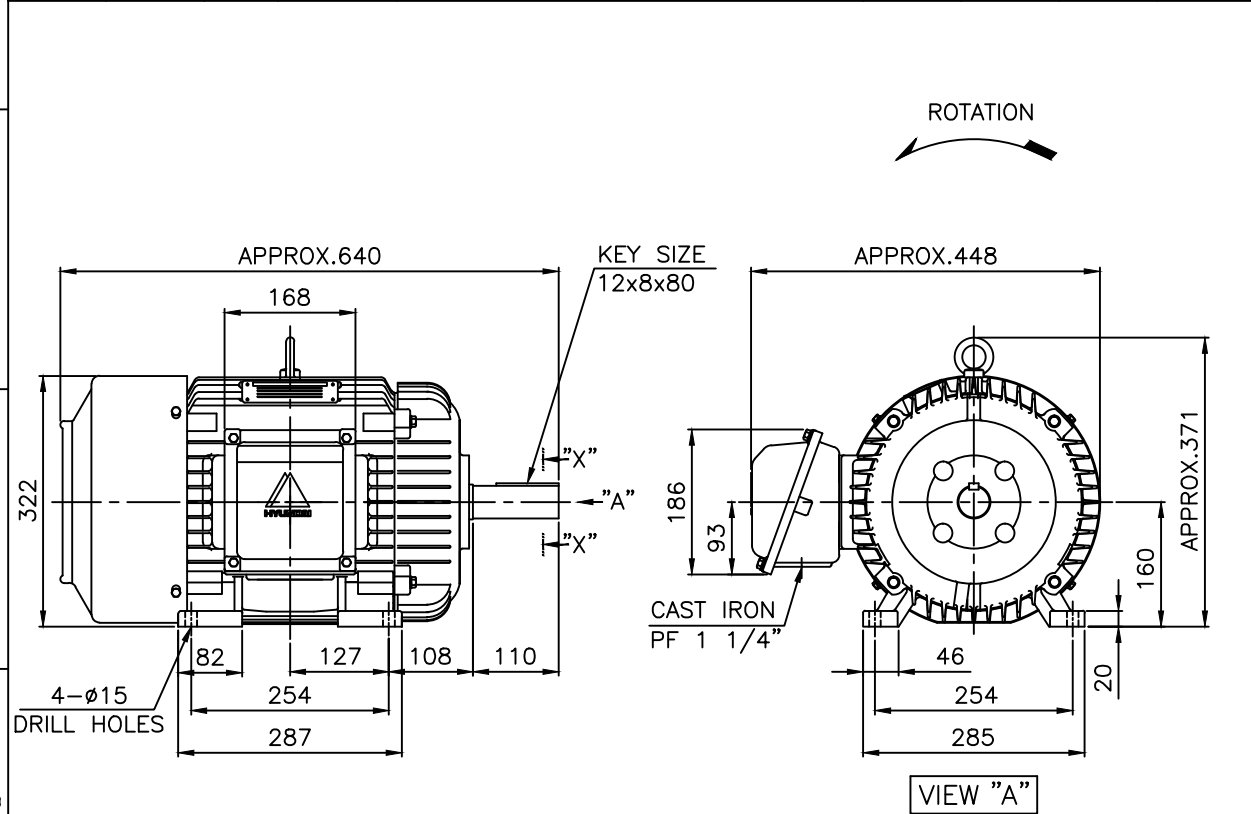


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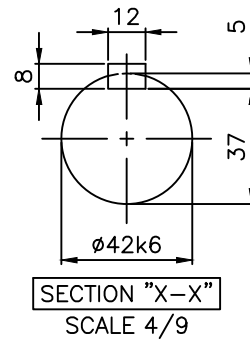
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



NOTE

1.TOLERANCE :

CENTER HEIGHT	160	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	Ø15	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	Ø42	$\begin{smallmatrix} +0.018 \\ +0.002 \end{smallmatrix}$
KEYWAY WIDTH	12	$\begin{smallmatrix} 0 \\ -0.043 \end{smallmatrix}$
KEYWAY DEPTH	5	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEY WIDTH	12	$\begin{smallmatrix} 0 \\ -0.043 \end{smallmatrix}$
KEY HEIGHT	8	$\begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$



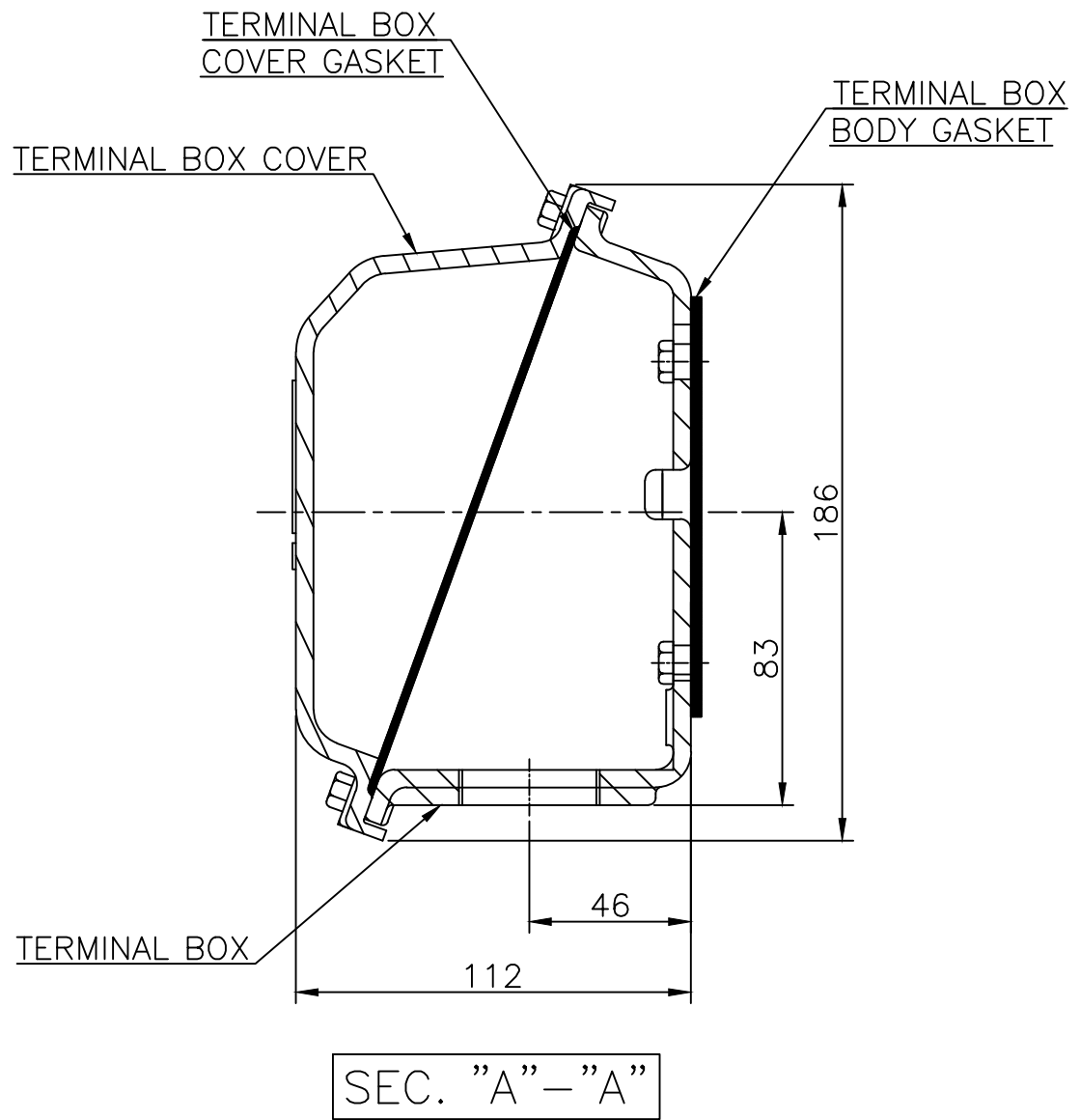
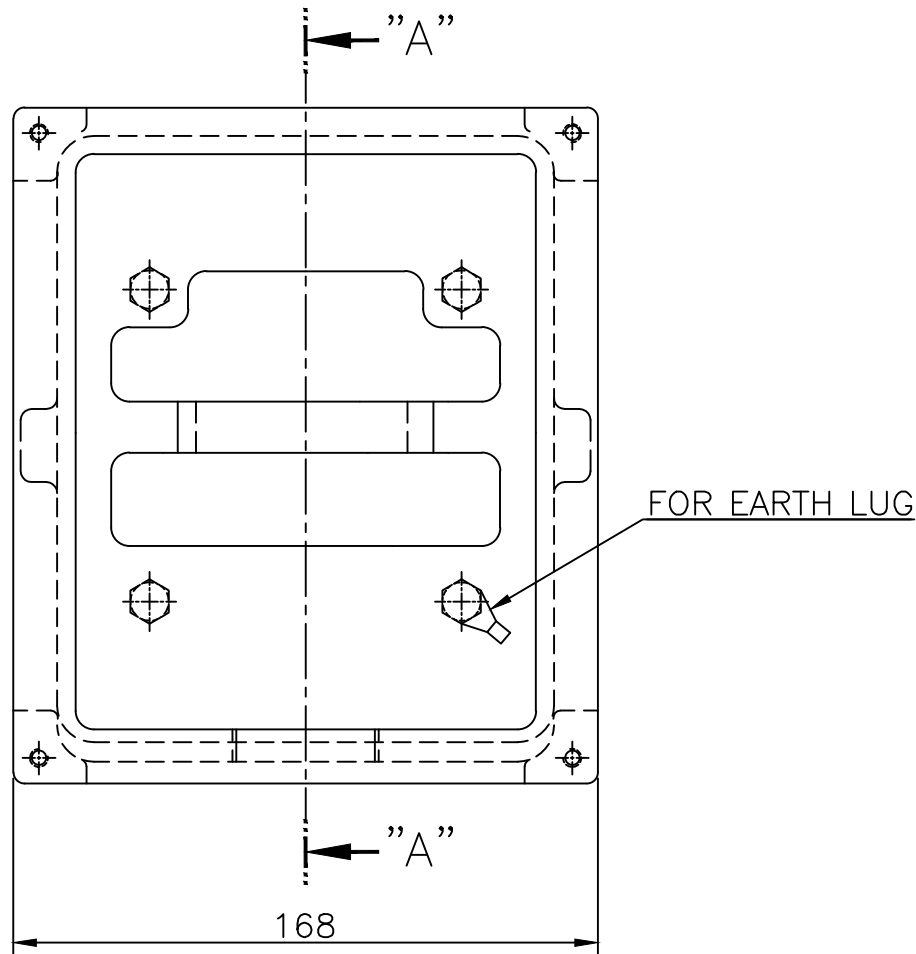
APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.160L	DWG SIZE	A4 (1:9)
CHKD BY	S.Y.KIM	SCALE	1/9	TITLE	OUTLINE		
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)				
DSND BY	S.H.YUN	DATE	2011-11-11				
				REF. NO		Sheet No.	of
				DWG NO	LM-T1165B3PL001	Revision No.	4

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SEC. "A" - "A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

일반가공공차				일반재관공차			
1-4	±0.1	6-30	±0.5	1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8	4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2	18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0	63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0	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				A3 (1:2)
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	TITLE 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