

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

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# SPECIFICATION for INDUCTION MOTOR



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# AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.	4406KSTD40SSDS1STFE3B31DL0SD3	Item No.		Rev. No.	[     ]		
Project Name		Project No.		Quantity			
<b>GENERAL SPECIFICATION</b>			<b>PERFORMANCE DATA</b>				
Frame Size	160L	Rated Output	15 kW	20 HP			
Type	HLP-15/4	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	440 V				
Number of Phases	3	Current	Full Load	26.0 A			
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	850 %			
Temp. Rise at full load (by resistance method)		Efficiency					
at 1.0 S.F	80 deg. C	50% Load		92.5 %			
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load		93.2 %			
Altitude	Less than 1000	100% Load		93.0 %			
Relative Humidity	Less than 80 %	Power Factor(p.u)					
Ambient Temp.	40 deg. C (Max.)	50% Load		0.700			
Duty Type	Continuous(S1)	75% Load		0.780			
Service Factor	1.15	100% Load		0.815			
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load		1775 r.p.m			
Bearing	Type	Anti-Friction					
	DE/N-DE	6309ZZC3 / 6309ZZC3					
	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.)		12.800 kg·m <sup>2</sup>			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor		0.111 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-T1165B3PL001	136 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	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.

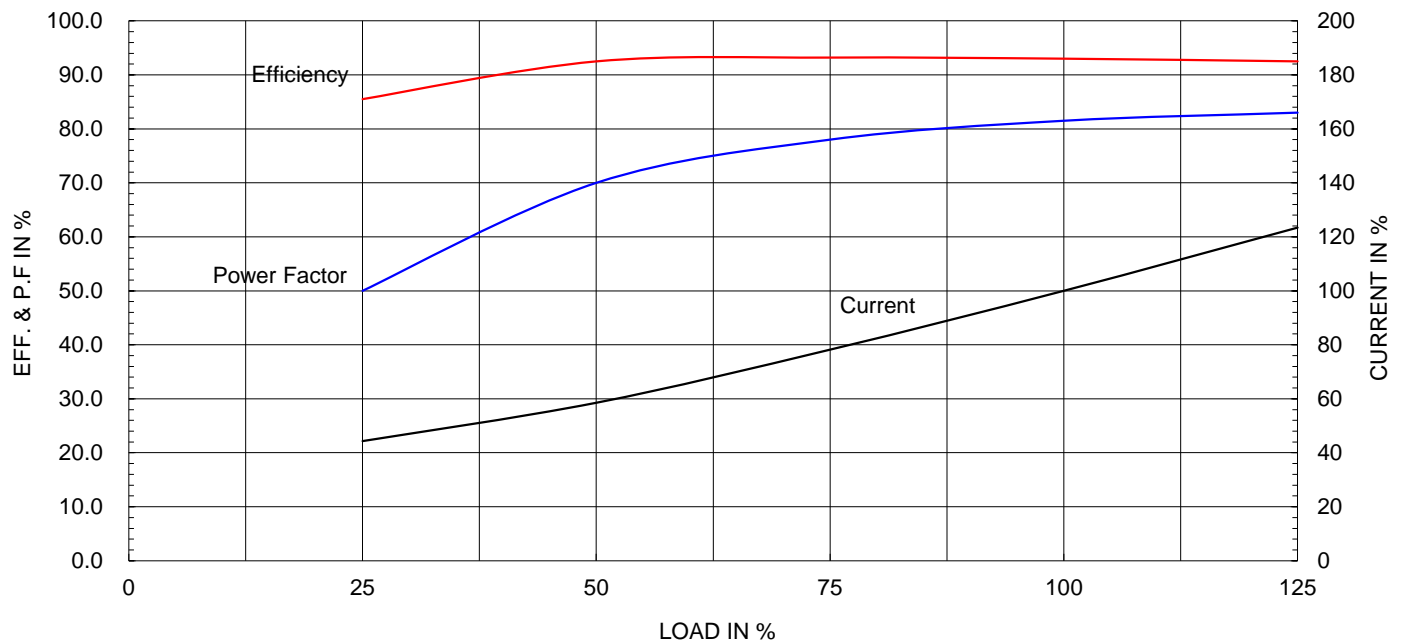
Type :	HLP-15/4	
Full Load Torque :	8.2	kg.m
Motor moment of Inertia (J) :	0.111	kg.m <sup>2</sup>
Load moment of Inertia (J) :	12.800	kg.m <sup>2</sup>

15 kW	4 P	60 Hz
Speed at Full Load :		1775 RPM
Rated Voltage	440V	
Full Load Current	26.0A	

SPEED VS TORQUE &amp; CURRENT CURVE



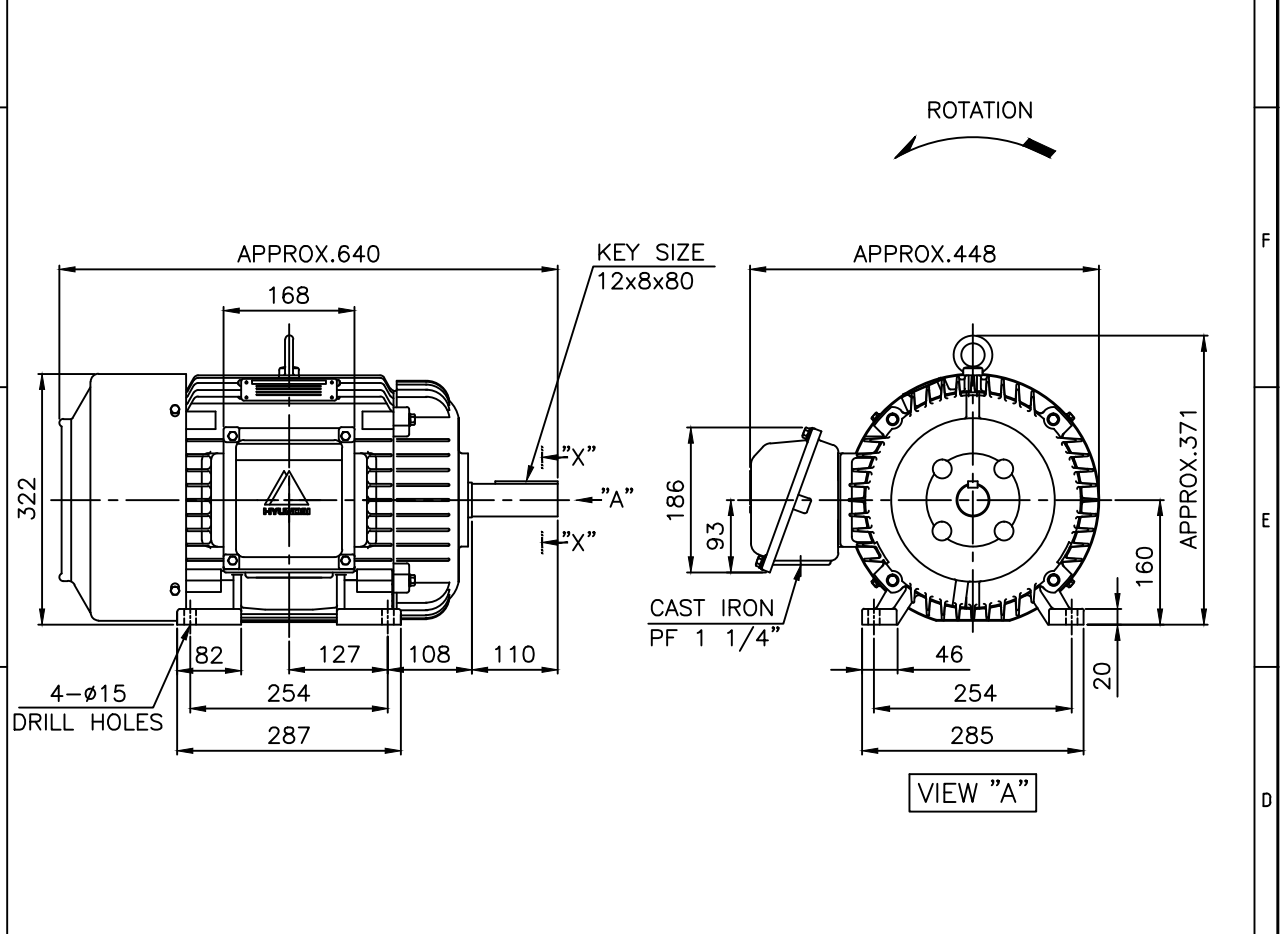
OUTPUT VS EFF., P.F &amp; CURRENT CURVE



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

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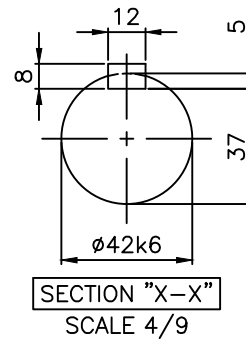
	1	2	3	4				
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



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.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



▽	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