

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.	4606KSTD40SSDS1STFE3351DL0SDS	Item No.		Rev. No.	[     ]	
Project Name		Project No.		Quantity		
<b>GENERAL SPECIFICATION</b>			<b>PERFORMANCE DATA</b>			
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*	<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	19.8 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> 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	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> 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	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input checked="" type="checkbox"/> B3/B5	Speed at Full Load		1175 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.)		20.250 kg·m <sup>2</sup>		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor		0.130 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		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)		
<b>ACCESSORIES</b>			<b>SUBMITTAL DRAWING</b>			
		Outline Dimension Drawing		Motor Weight(Approx.)		
		B3/B5	LM-T1165B4PL001	141 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.

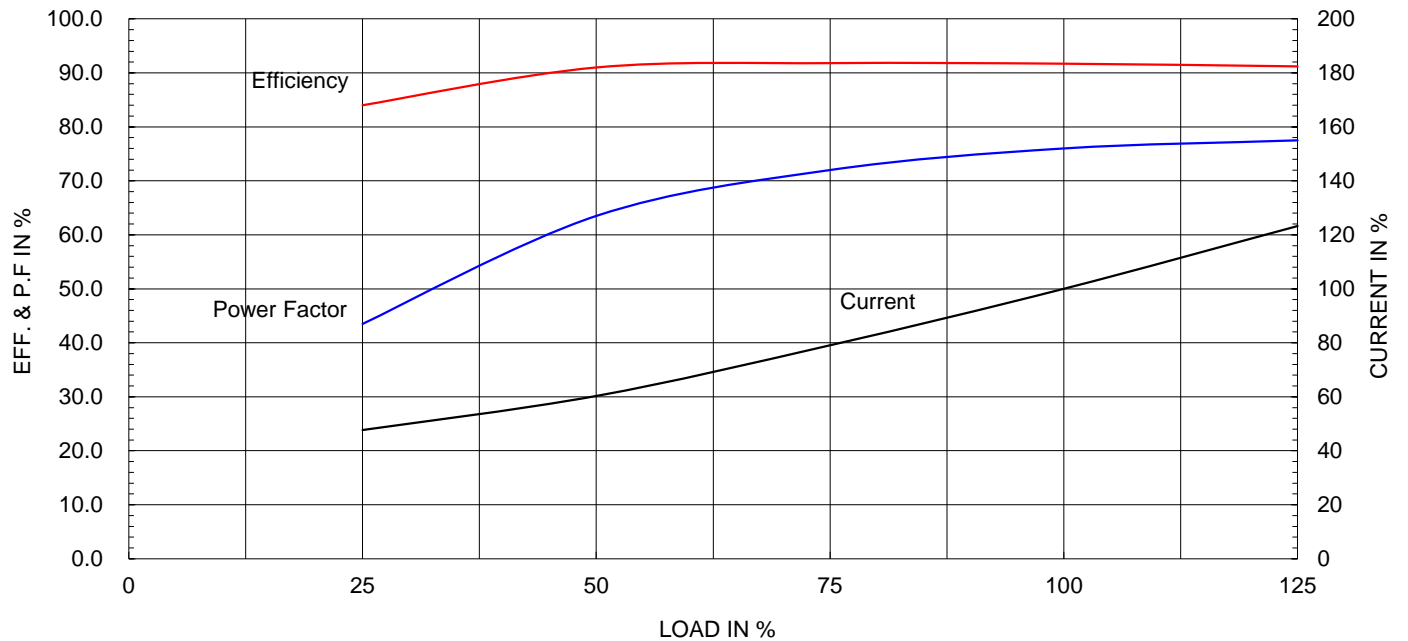
Type :	HLP-11/6	
Full Load Torque :	9.1	kg.m
Motor moment of Inertia (J) :	0.130	kg.m <sup>2</sup>
Load moment of Inertia (J) :	20.250	kg.m <sup>2</sup>

11 kW	6 P	60 Hz
Speed at Full Load :		1175 RPM
Rated Voltage	460V	
Full Load Current	19.8A	

SPEED VS TORQUE &amp; CURRENT CURVE



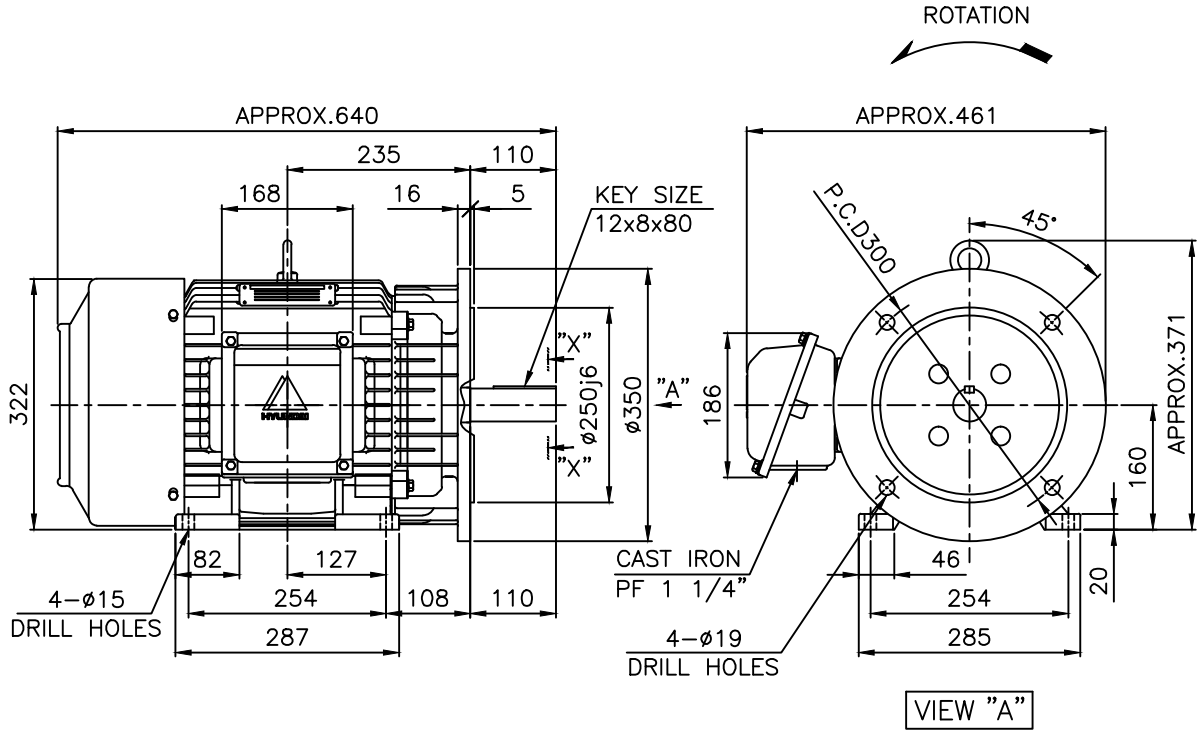
OUTPUT VS EFF., P.F &amp; CURRENT CURVE



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

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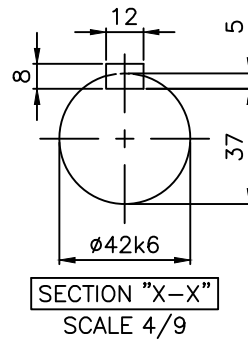
	1	2	3	4				
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



**NOTE**

1.TOLERANCE :

CENTER HEIGHT	160	0	-0.5
BASE HOLES	ø15	+0.43	0
FLANGE HOLES	ø19	+0.52	0
RABBET DIAMETER	ø250	+0.016	-0.013
SHAFT DIAMETER	ø42	+0.018	+0.002
KEYWAY WIDTH	12	0	-0.043
KEYWAY DEPTH	5	+0.2	0
KEY WIDTH	12	0	-0.043
KEY HEIGHT	8	0	-0.090



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.160L	DWG SIZE	A4 ( 1:1 )
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-T1165B4PL001	Revision No.	2



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