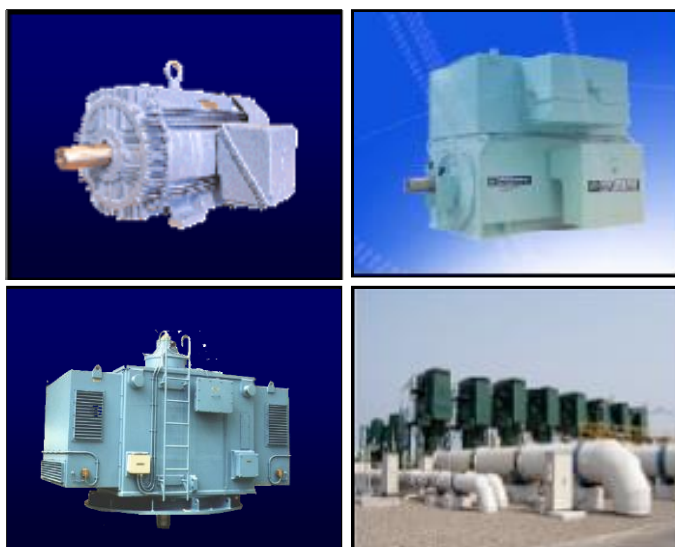


Customer :
Project Name :
Project No. :
Revision No. :

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						
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		160L		Rated Output		18.5 kW		25 HP					
Type		HLP-18.5/2		Number of Poles		2							
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		460 V							
Number of Phases		3		Current		Full Load		28.5 A					
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		935 %					
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 deg. C				50% Load		89.0 %					
Motor Location		☒ Indoor ☐ Outdoor				75% Load		91.7 %					
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		0.842					
Duty Type		Continuous(S1)				75% Load		0.878					
Service Factor		1.15				100% Load		0.890					
Mounting		☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		3560 r.p.m							
Bearing		Type		Anti-Friction		Torque							
		DE/N-DE		6309ZZC3 / 6309ZZC3		Full Load		5.1 kg·m					
		Lubricant		Grease(Polyrex-EM)		Locked-rotor**		160 %					
External Thrust		Not applicable				Breakdown**		230 %					
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)									
Shaft Extension		☒ Single ☐ Double				Load(Max.)		2.500 kg·m ²					
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor		0.059 kg·m ²					
		Aux.		☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)							
		Location		Refer to Outline Drawing		80 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.

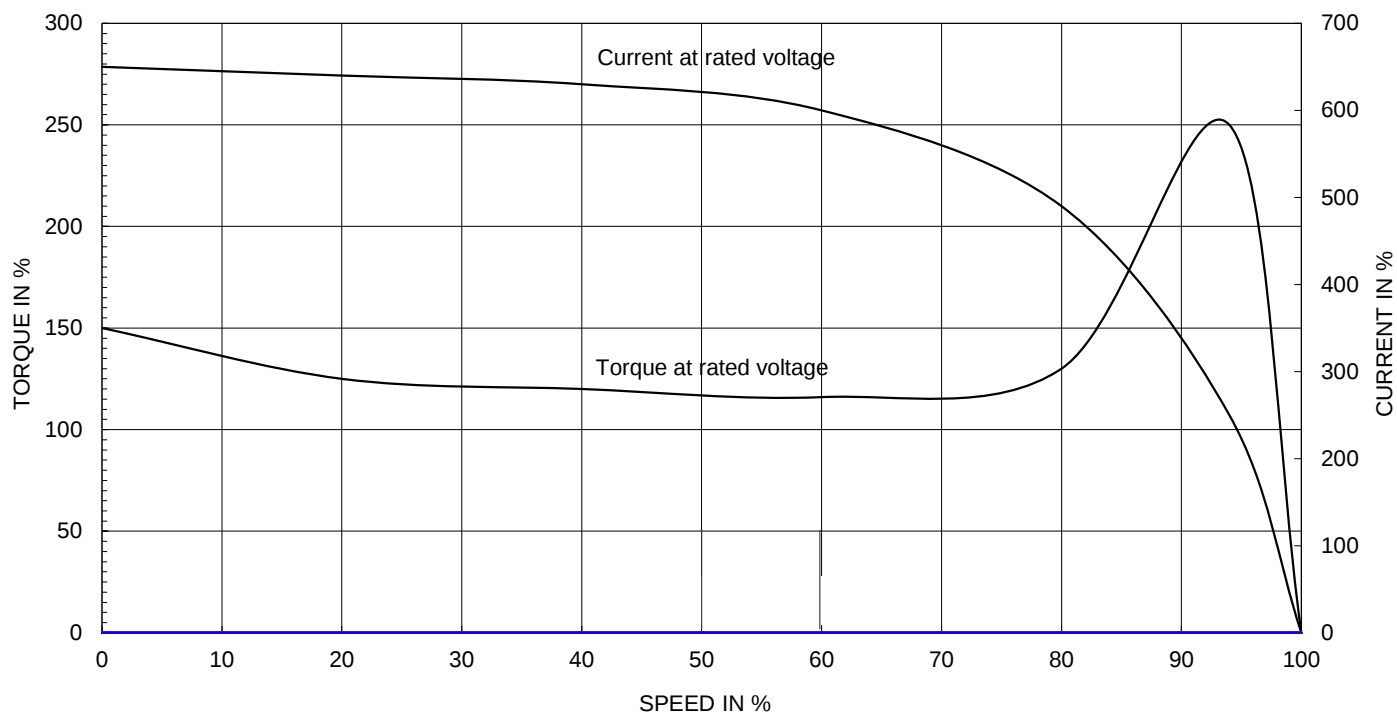
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

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

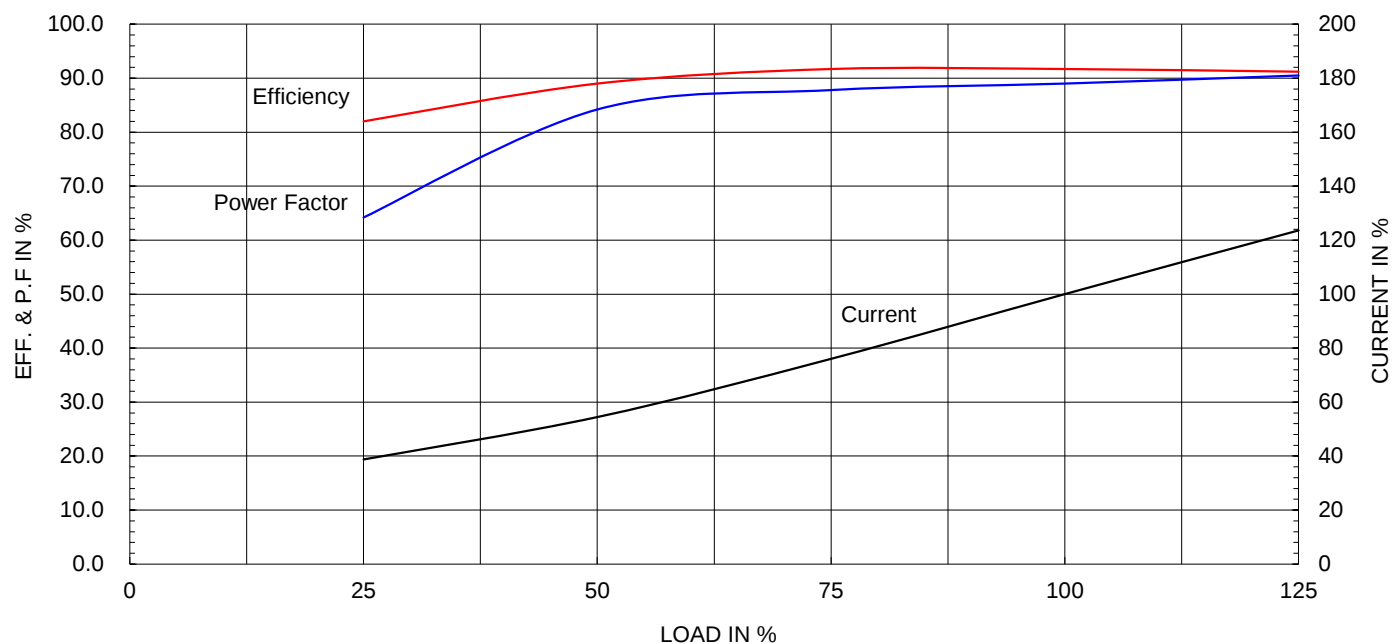
Type :	HLP-18.5/2	
Full Load Torque :	5.1	kg.m
Motor moment of Inertia (J) :	0.059	kg.m ²
Load moment of Inertia (J) :	2.500	kg.m ²

18.5 kW	2 P	60 Hz
Speed at Full Load : 3560 RPM		
Rated Voltage	460V	
Full Load Current	28.5A	

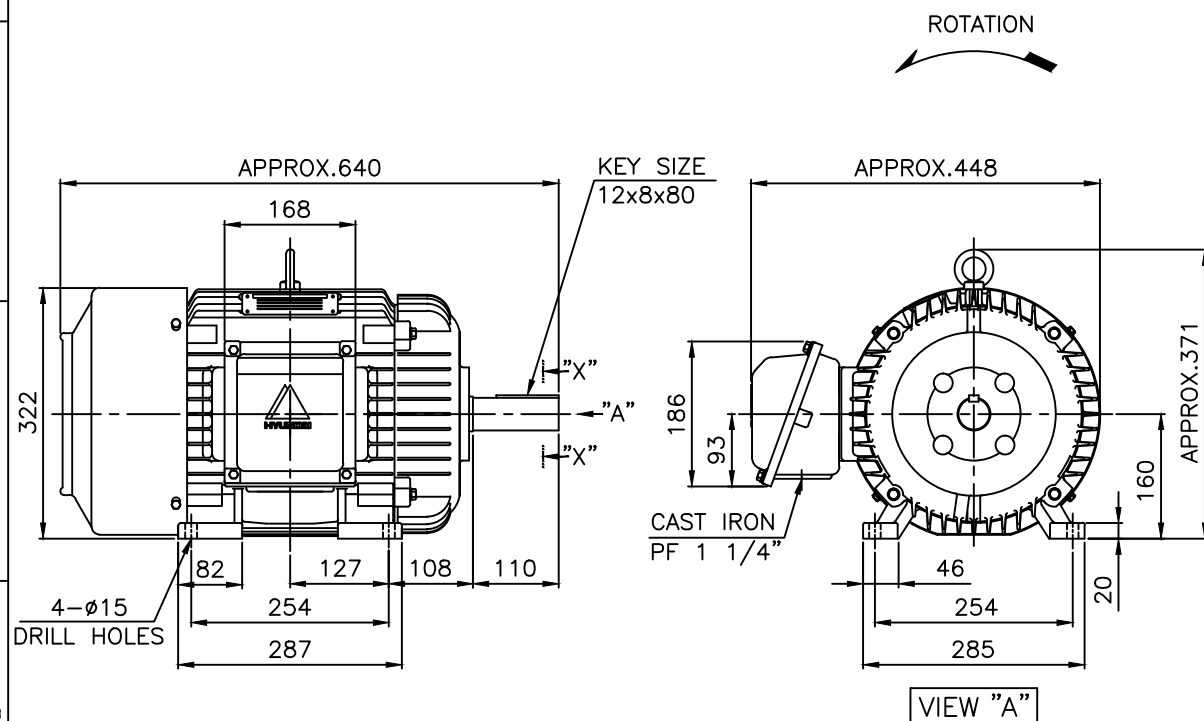
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



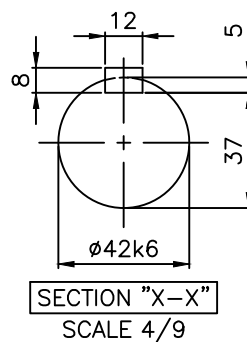
1			2		3		4		
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



NOTE

1.TOLERANCE :

CENTER HEIGHT	160	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	$\phi 15$	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 42$	$\begin{smallmatrix} +0.018 \\ +0.002 \end{smallmatrix}$
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
CHKD BY	S.Y.KIM	SCALE	1/9	TITLE	OUTLINE	A4 (19)
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

1

2

3

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허가없이 복사할 수 없음 (취급주의)

HYUNDAI
ELECTRIC



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

일반가공공차		일반재관공차	
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 Main Terminal Box Assembly				A3 (1:2)
CHKD	BY	R.G.KIM		PROJEC'N	3각법 (3rd Angle)					
DSND	BY	H.K.LEE		DATE	2011-08-30					
						REF. NO	227B8008LA2		Sheet No.	of
						DWG NO	3M-145860		Revision No.	2
6		7		8		9				