

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.		4606KSTD40SSDS1STFE3B31DL0SD3		Item No.			Rev. No.		[]		
Project Name				Project No.			Quantity				
GENERAL SPECIFICATION				PERFORMANCE DATA							
Frame Size		180L		Rated Output		18.5 kW		25 HP			
Type		HLP-18.5/6		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		460 V					
Number of Phases		3		Current		Full Load		32.1 A			
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		840 %			
Temp. Rise at full load (by resistance method)				Efficiency							
at 1.0 S.F		80 deg. C				50% Load		92.4 %			
Motor Location		☒ Indoor ☐ Outdoor				75% Load		93.1 %			
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		0.599			
Duty Type		Continuous(S1)				75% Load		0.716			
Service Factor		1.15				100% Load		0.777			
Mounting		☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		1175 r.p.m					
Bearing	Type	Anti-Friction		Torque							
	DE/N-DE	6312ZZC3 / 6310ZZC3				Full Load		15.3 kg·m			
	Lubricant	Grease(Polyrex-EM)				Locked-rotor**		160 %			
External Thrust		Not applicable				Breakdown**		220 %			
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)							
Shaft Extension		☒ Single ☐ Double				Load(Max.)		33.000 kg·m²			
Terminal Box	Main	☐ Steel ☒ Cast Iron				Motor		0.257 kg·m²			
	Aux.	☐ Yes ☒ No				Sound Pressure Level (No-load & mean value at 1m from motor)					
	Location	Refer to Outline Drawing				68 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-T1185B3PL001		186 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.

HEES W230-131-1

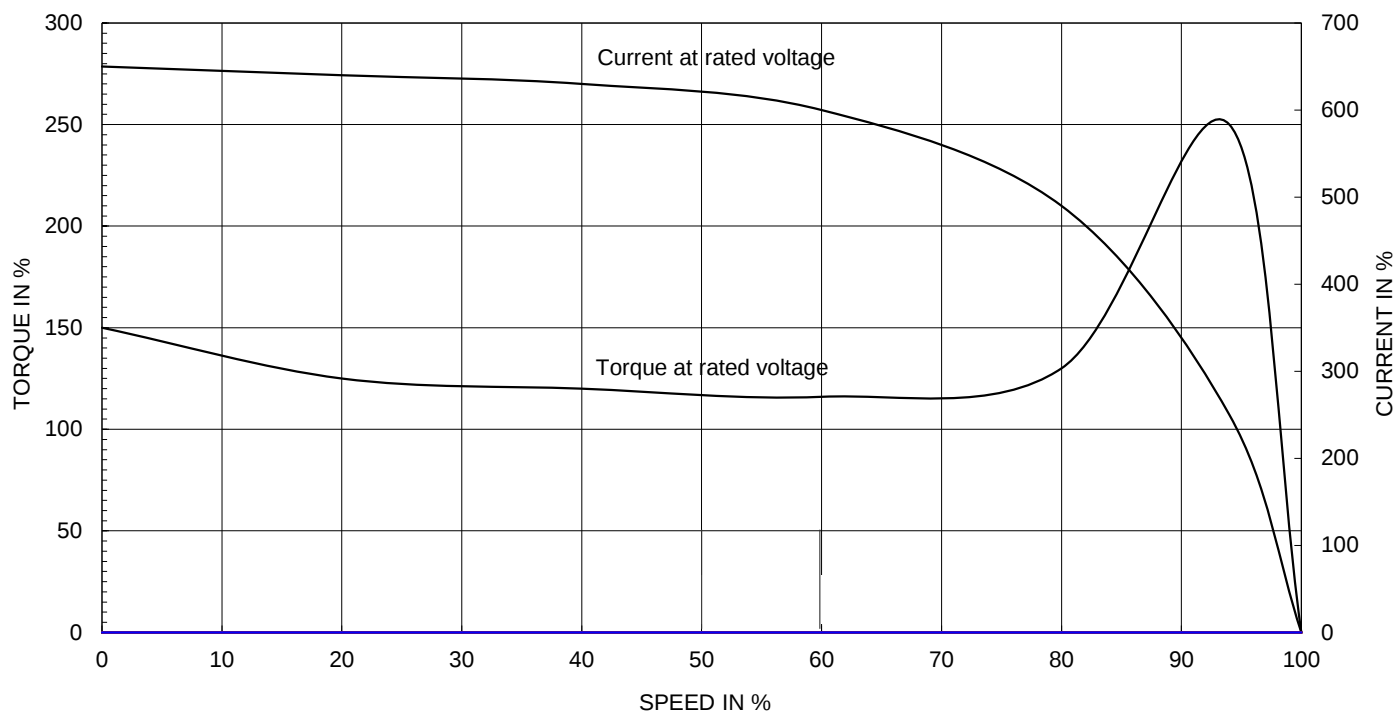
* In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests.

A4(210mm X 297mm)

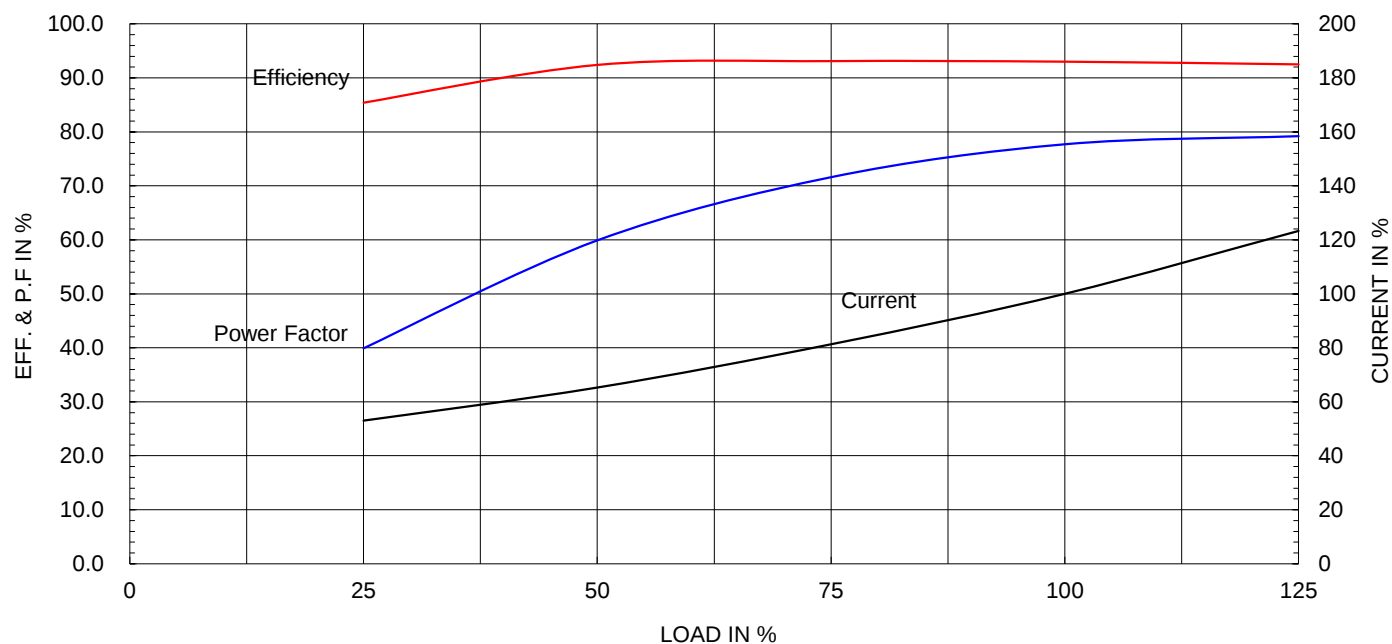
Type :	HLP-18.5/6	
Full Load Torque :	15.3	kg.m
Motor moment of Inertia (J) :	0.257	kg.m ²
Load moment of Inertia (J) :	33.000	kg.m ²

18.5 kW	6 P	60 Hz
Speed at Full Load : 1175 RPM		
Rated Voltage	460V	
Full Load Current	32.1A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

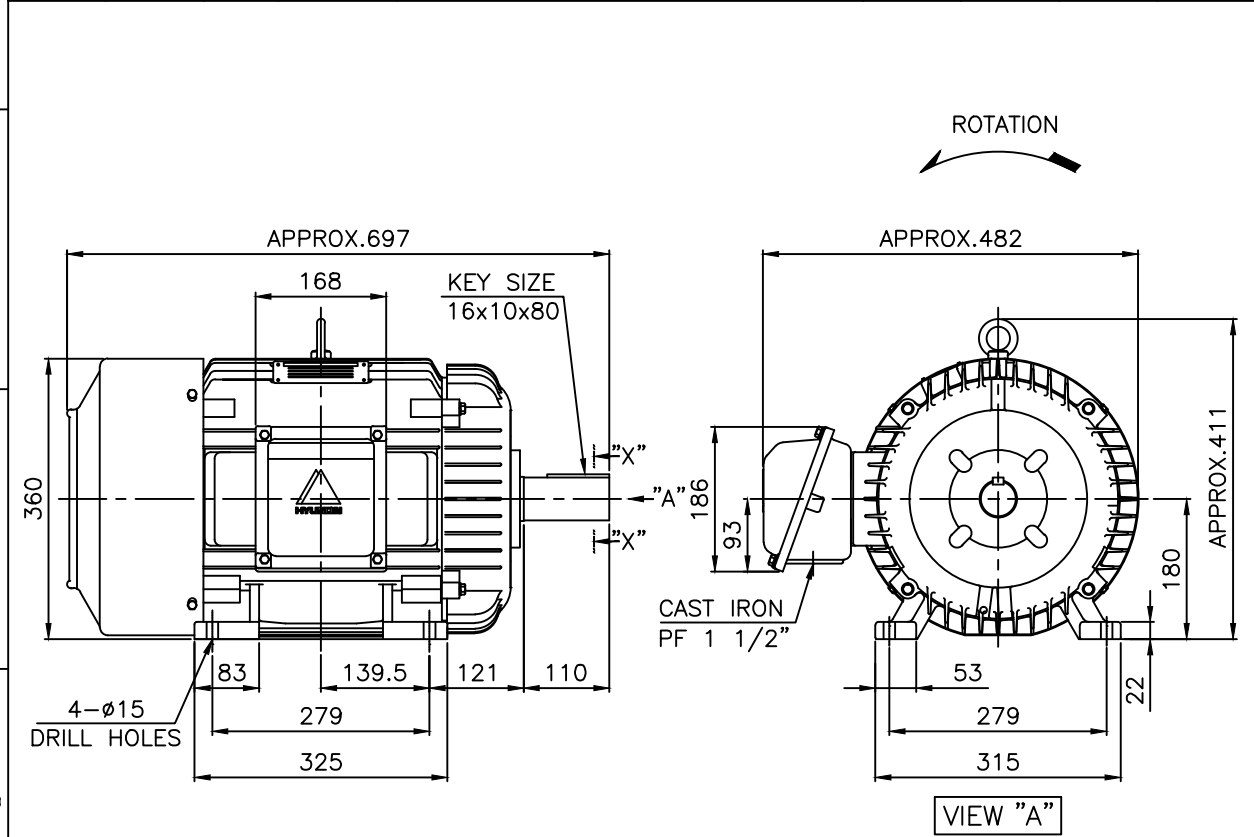


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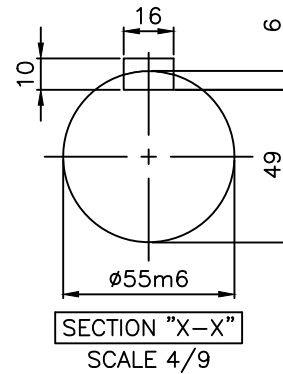
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



NOTE

1.TOLERANCE :

CENTER HEIGHT	180	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	Ø15	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	Ø55	$\begin{smallmatrix} +0.030 \\ +0.011 \end{smallmatrix}$
KEYWAY WIDTH	16	$\begin{smallmatrix} 0 \\ -0.043 \end{smallmatrix}$
KEYWAY DEPTH	6	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEY WIDTH	16	$\begin{smallmatrix} 0 \\ -0.043 \end{smallmatrix}$
KEY HEIGHT	10	$\begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.180L	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/9	TITLE	OUTLINE	A4 (1:9)
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)			
DSND BY	S.H.YUN	DATE	2011-10-22			
				REF. NO		Sheet No. of
				DWG NO	LM-T1185B3PL001	Revision No. 3

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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

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				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
6			7		8		9	