

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.		4406KSTD40SSDS1STFE3B51DL0SDS		Item No.		Rev. No.	[]	
Project Name				Project No.		Quantity		
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame Size		80M		Rated Output		0.75 kW 1 HP		
Type		HLP-0.75/2		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		440 V		
Number of Phases		3		Current		Full Load 1.6 A		
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor**		900 %		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		80 deg. C		50% Load		73.5 %		
Motor Location		☒ Indoor ☐ Outdoor		75% Load		77.2 %		
Altitude		Less than 1000		100% Load		77.0 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)				
Ambient Temp.		40 deg. C (Max.)		50% Load		0.610		
Duty Type		Continuous(S1)		75% Load		0.740		
Service Factor		1.15		100% Load		0.820		
Mounting		☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		3500 r.p.m		
Bearing	Type	Anti-Friction		Torque				
	DE/N-DE	6204ZZ / 6203ZZ		Full Load		0.2 kg·m		
	Lubricant	Grease(HIFLEX L-3)		Locked-rotor**		240 %		
External Thrust		Not applicable		Breakdown**		300 %		
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension		☒ Single ☐ Double		Load(Max.)		0.150 kg·m²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor		0.001 kg·m²		
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing				73 dB(A)		
Application				Vibration		1.6 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.)		
				B5		LM-A1080B5P1001	14 kg	
				Main T-Box Ass'y		3M-148548		
SPARE PARTS				REMARK				
				*.Premium Efficiency(IE3)				
				*.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise				
				Date	DSND	CHKD	CHKD	APPD
				2018-04-25	R.G. KIM	-	O.J. KIM	S.K. HAN

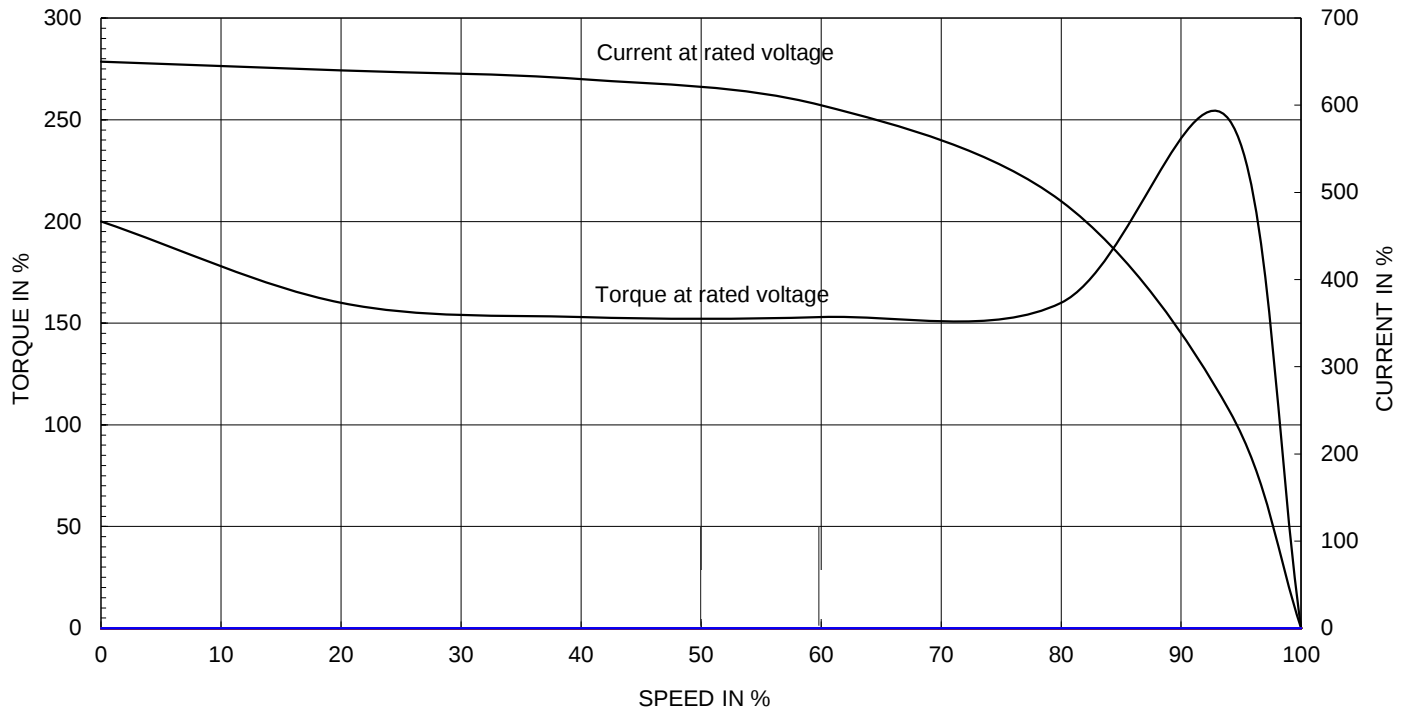
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
Inspection and performance test shall be maker standard, if not mentioned.
* In case of Inverter-Fed Motor, 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)

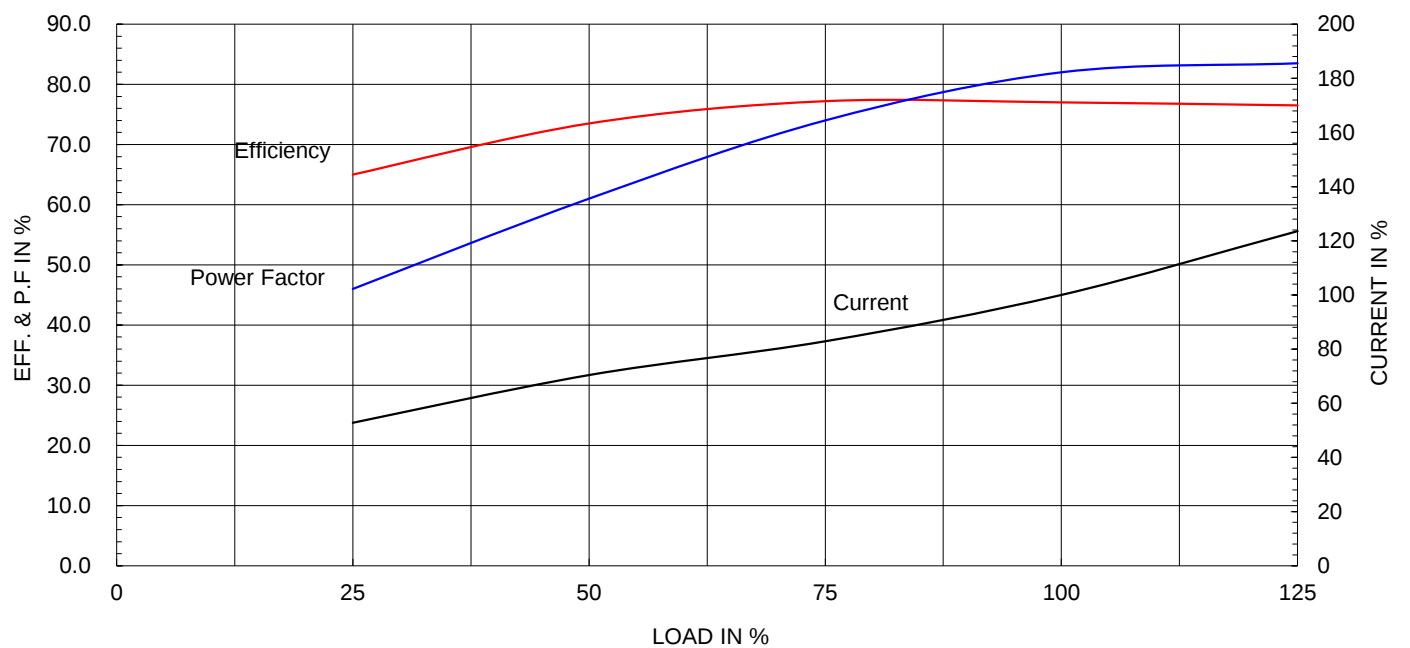
Type :	HLP-0.75/2	
Full Load Torque :	0.2	kg.m
Motor moment of Inertia (J) :	0.001	kg.m ²
Load moment of Inertia (J) :	0.150	kg.m ²

0.75 kW	2 P	60 Hz
Speed at Full Load : 3500 RPM		
Rated Voltage	440V	
Full Load Current	1.6A	

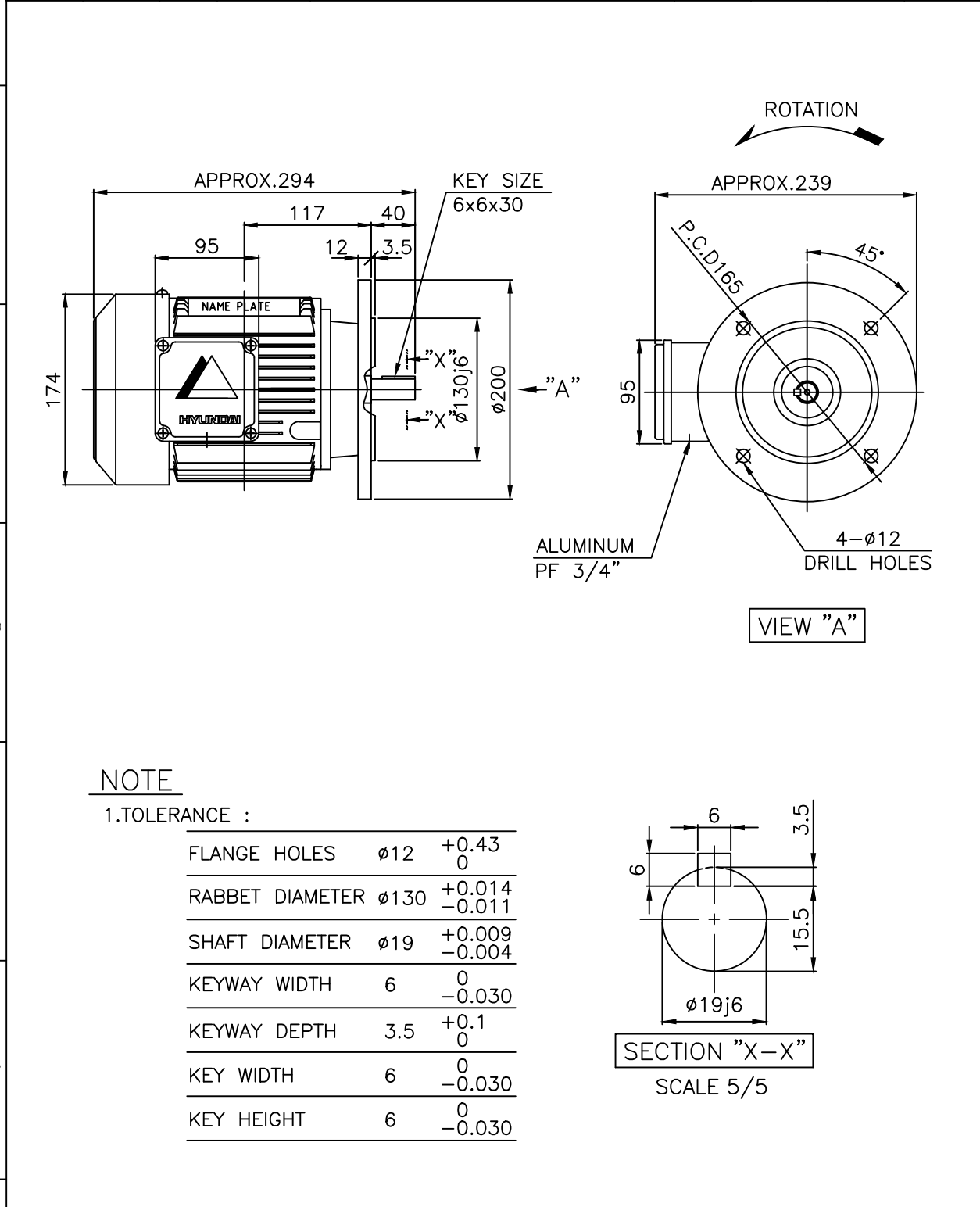
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



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



NOTE

1.TOLERANCE :

FLANGE HOLES	Ø12	+0.43 0
RABBET DIAMETER	Ø130	+0.014 -0.011
SHAFT DIAMETER	Ø19	+0.009 -0.004
KEYWAY WIDTH	6	0 -0.030
KEYWAY DEPTH	3.5	+0.1 0
KEY WIDTH	6	0 -0.030
KEY HEIGHT	6	0 -0.030

APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.80M	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/5	TITLE	OUTLINE	A4 (15)
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)			
DSND BY	S.H.YUN	DATE	2018-07-27			
HYUNDAI ELECTRIC				REF. NO		Sheet No. of
				DWG NO	LM-A1080B5P1001	Revision No. 0

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허가없이 복사할 수 없음 (취급주의)

HYUNDAI
ELECTRIC



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
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.71~90 (AL)			DWG SIZE
CHKD BY	S.Y.KIM		SCALE	1/1					A3 (1:1)
CHKD BY	R.G.KIM		PROJEC'N	3각법 (3rd Angle) TITLE Terminal Box Arrangement					
DSND BY	이혜경 R		DATE						
					REF. NO	227B1537AA		Sheet No.	of
					DWG NO	3M-148548		Revision No.	2
6		7		8		9			