

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.		4606KSTD40SSDS1STFE3B51DL0SDS		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		460 V							
Number of Phases		3		Current		Full Load		1.5 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·m ²					
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor		0.001 kg·m ²					
		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							
				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.

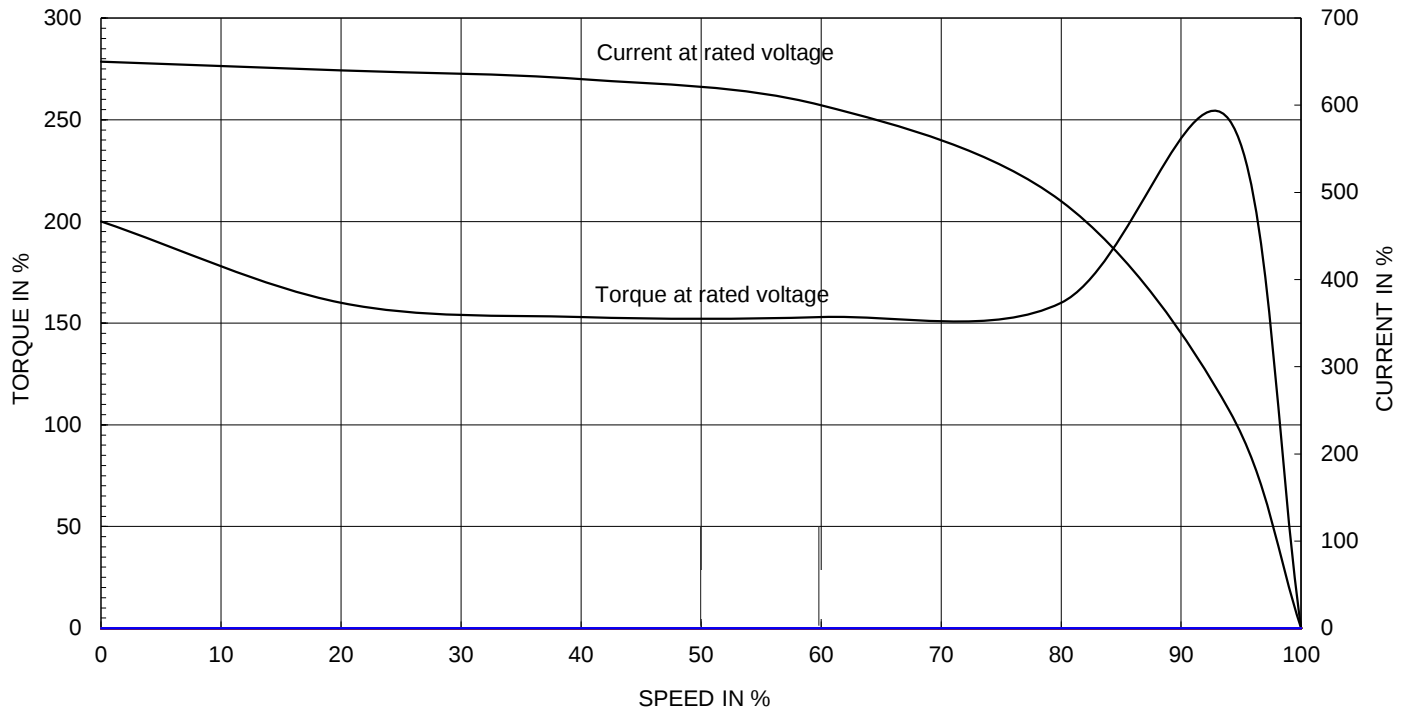
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

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

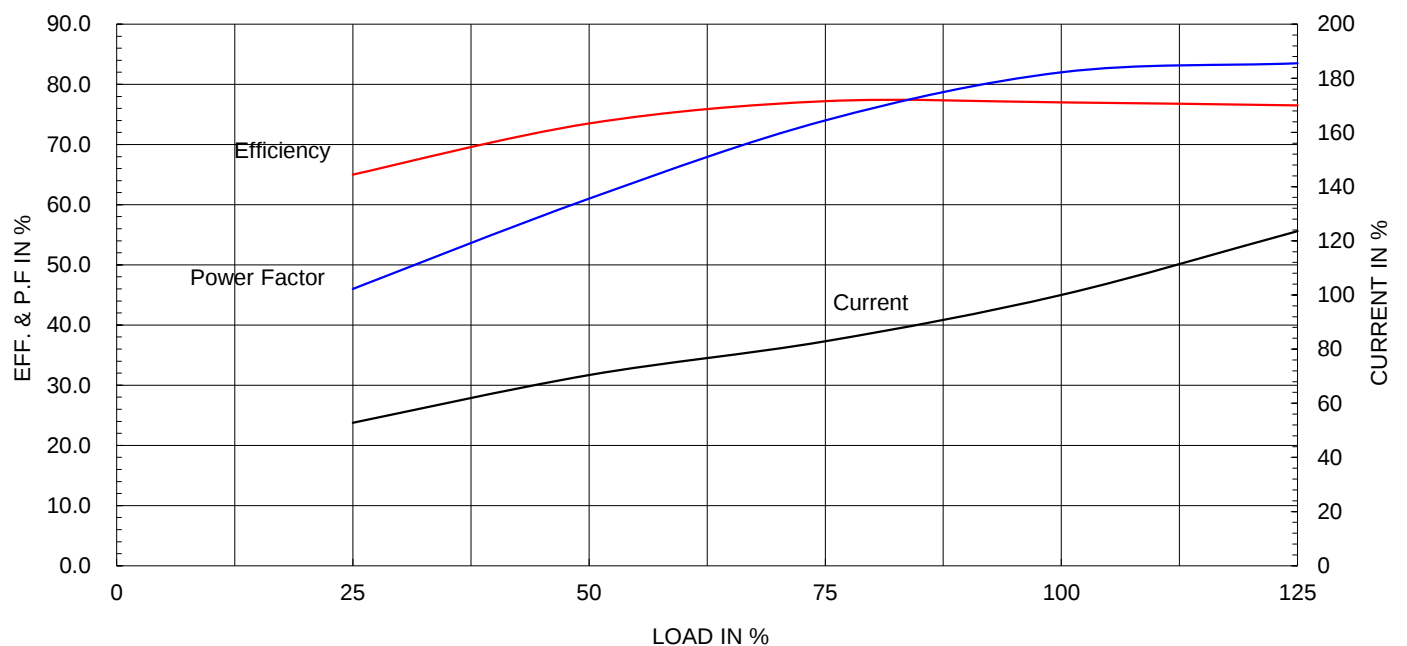
Type :	HLP-0.75/2	
Full Load Torque :	0.2	kg.m
Motor moment of Inertia (J) :	0.001	kg.m ²
Load moment of Inertia (J) :	0.150	kg.m ²

0.75 kW	2 P	60 Hz
Speed at Full Load : 3500 RPM		
Rated Voltage	460V	
Full Load Current	1.5A	

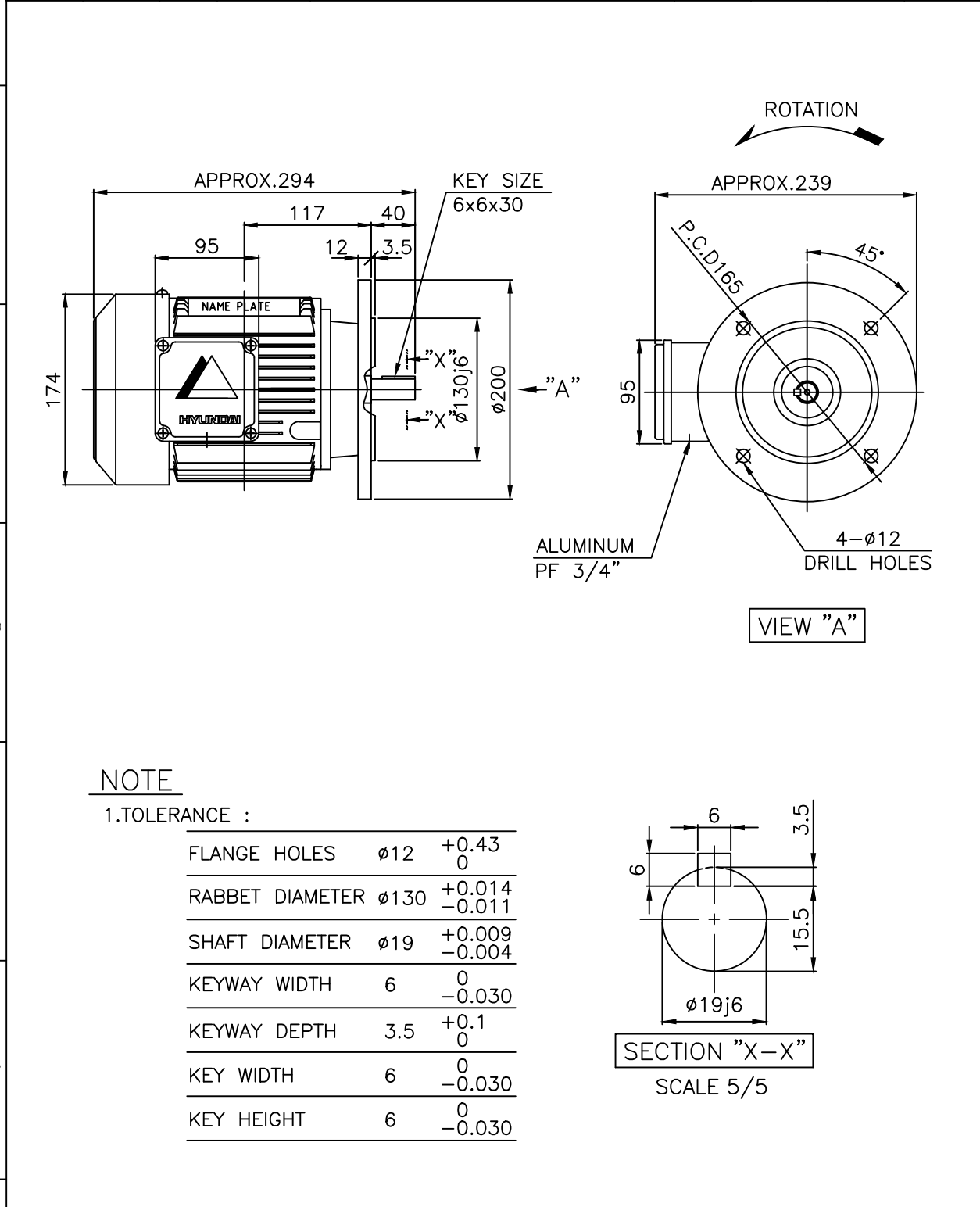
SPEED VS TORQUE & CURRENT CURVE



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	$\phi 12$	$+0.43$ 0
RABBET DIAMETER	$\phi 130$	$+0.014$ -0.011
SHAFT DIAMETER	$\phi 19$	$+0.009$ -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	A4 (1:5)		
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	TITLE OUTLINE		
DSND BY	S.H.YUN	DATE	2018-07-27			
				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

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	2011-10-26				
					REF. NO	227B1537AA	Sheet No.	of
					DWG NO	3M-148548	Revision No.	2