

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.		4606KSTD40SSDS1STFE3V11DL0SDS		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.)			
				V1		LM-A1080V1P1001		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.

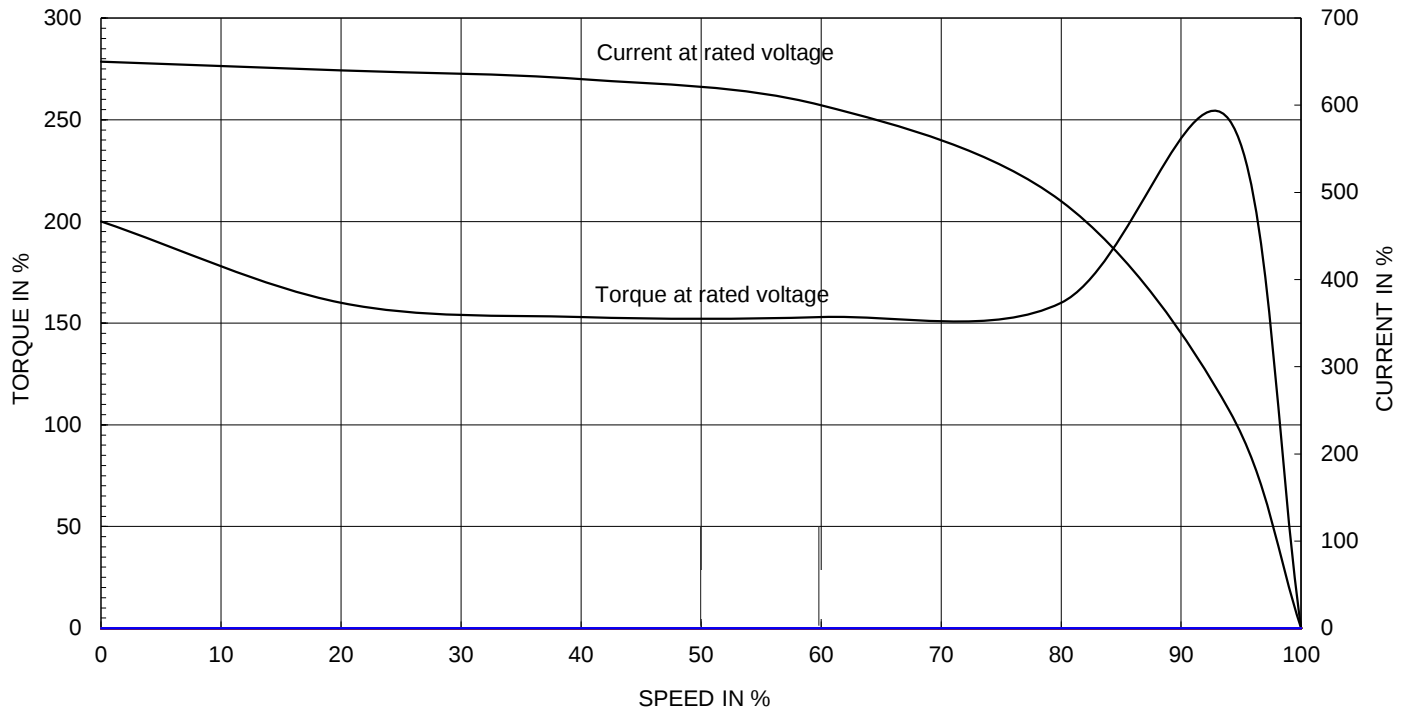
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

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

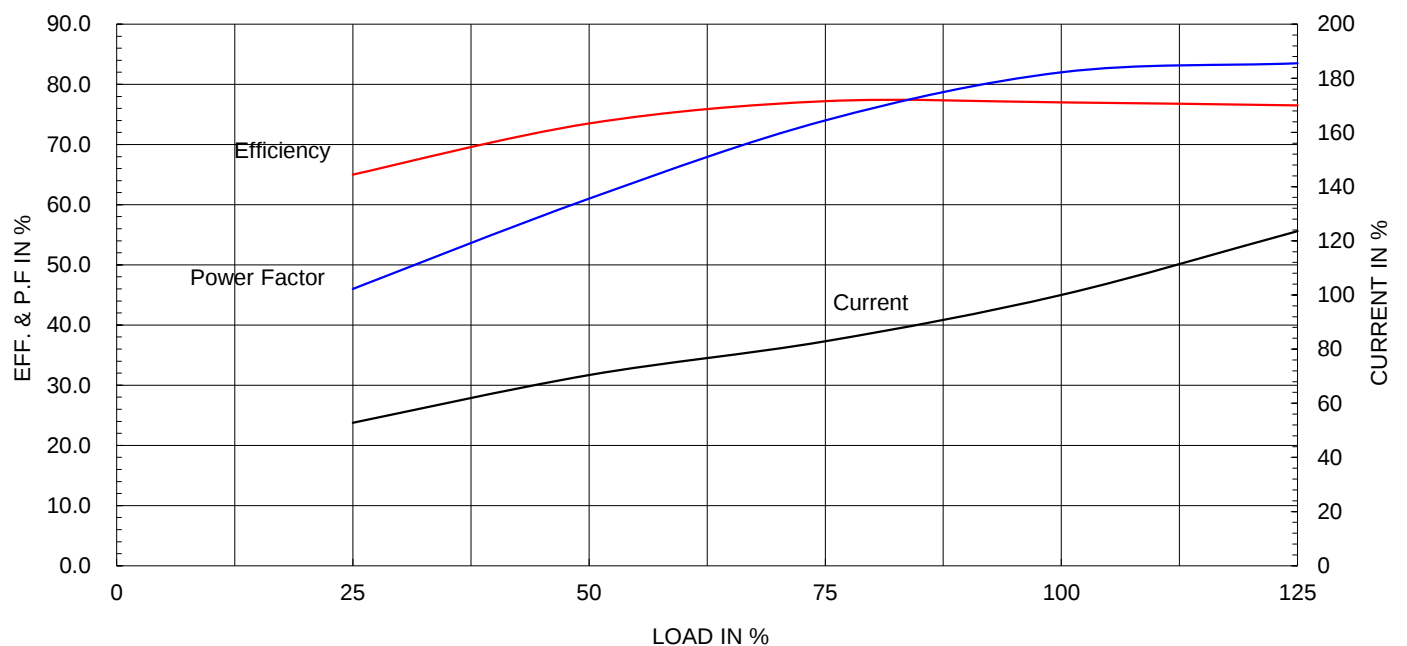
Type :	HLP-0.75/2	
Full Load Torque :	0.2	kg.m
Motor moment of Inertia (J) :	0.001	kg.m ²
Load moment of Inertia (J) :	0.150	kg.m ²

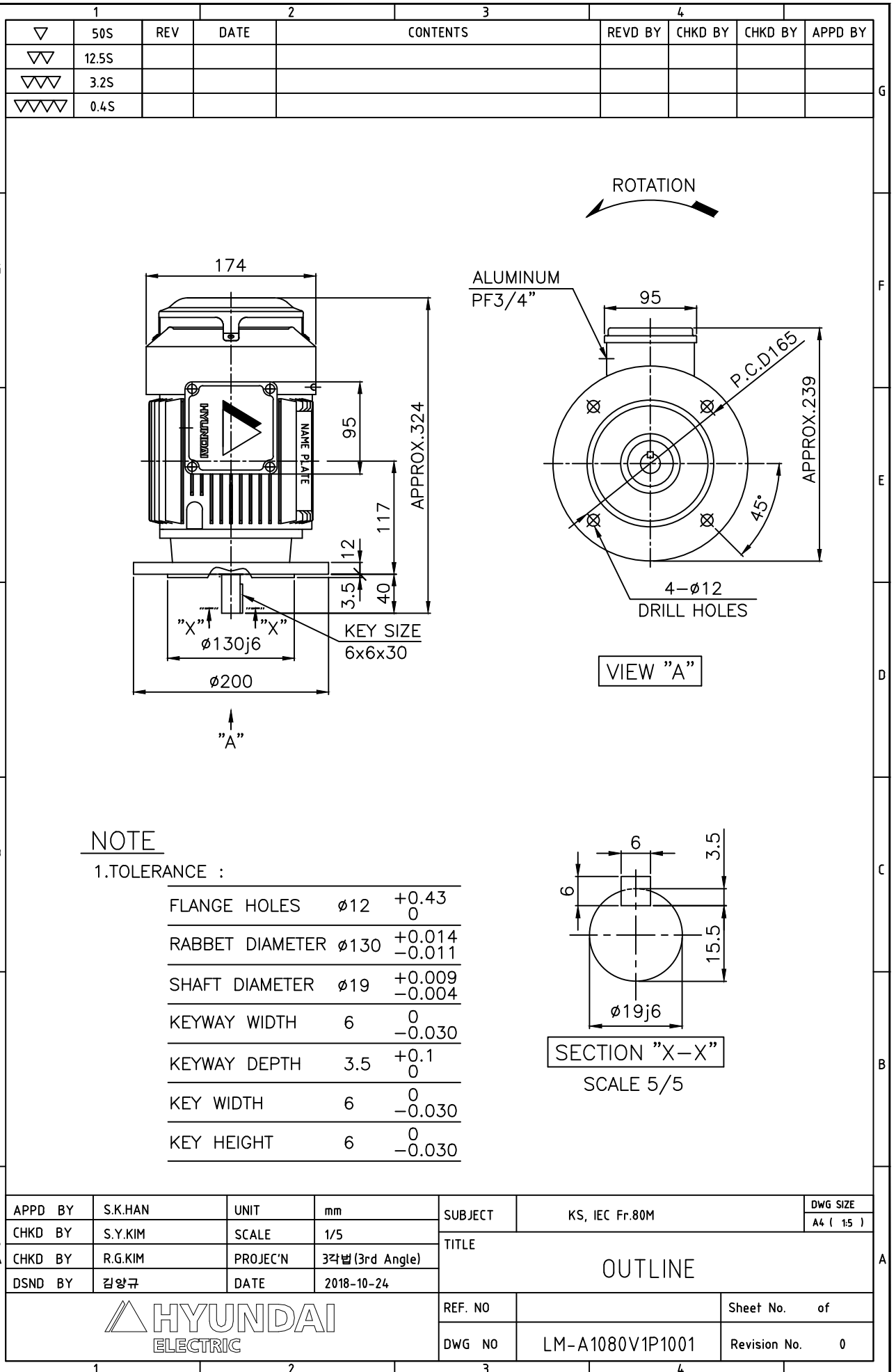
0.75 kW	2 P	60 Hz
Speed at Full Load : 3500 RPM		
Rated Voltage	460V	
Full Load Current	1.5A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





THIS DRAWING IS PROPRIETARY TO HYUNDAI ELECTRIC. NO PART OF THIS DRAWING
MAYBE REPRODUCED WITHOUT THE PERMISSION OF HYUNDAI ELECTRIC.

본 도면은 현대일렉트릭(주) 재산이므로
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)					
DSND BY	이혜경 R		DATE	2011-10-26					
					REF. NO	227B1537AA		Sheet No.	of
					DWG NO	3M-148548		Revision No.	2
6		7		8		9			