

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

SPECIFICATION for INDUCTION MOTOR



Contents

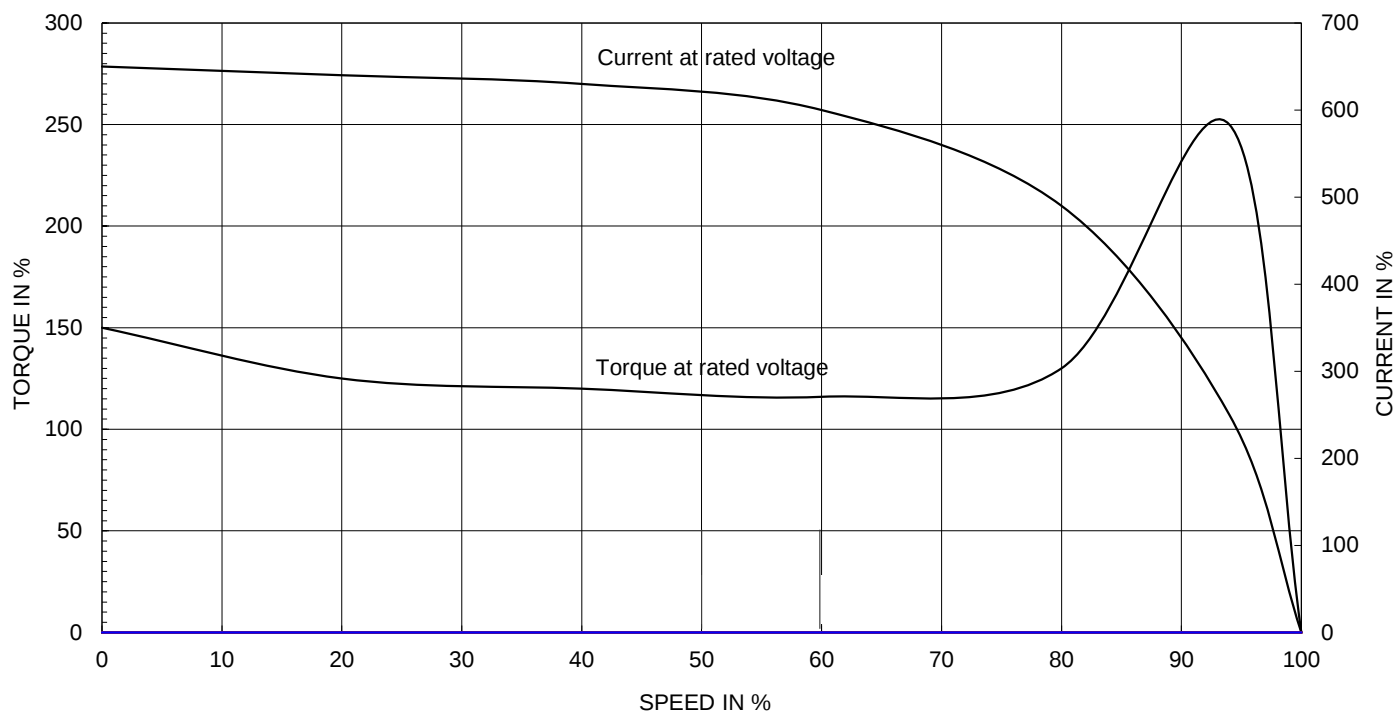
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3 . Outline Dimension Drawing	- 1Sheets
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		AC INDUCTION MOTOR DATA SHEET											
Model No.or RFQ No.		4606KSTD40SSDS1STFE3B51DL0SD3		Item No.		Rev. No.		[]					
Project Name				Project No.		Quantity							
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		180L		Rated Output		30 kW		40 HP					
Type		HLP-30/4		Number of Poles		4							
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		48.8 A					
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		725 %					
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 deg. C				50% Load		93.8 %					
Motor Location		☒ Indoor ☐ Outdoor				75% Load		94.3 %					
Altitude		Less than 1000				100% Load		94.1 %					
Relative Humidity		Less than 80 %		Power Factor(p.u)									
Ambient Temp.		40 deg. C (Max.)				50% Load		0.735					
Duty Type		Continuous(S1)				75% Load		0.790					
Service Factor		1.15				100% Load		0.820					
Mounting		☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		1780 r.p.m							
Bearing		Type		Anti-Friction		Torque							
		DE/N-DE		6312ZZC3 / 6310ZZC3		Full Load		16.4 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.)		17.248 kg·m²					
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor		0.190 kg·m²					
		Aux.		☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)							
		Location		Refer to Outline Drawing				77 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.)					
				B5		LM-T1185B5PL001		199 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.													

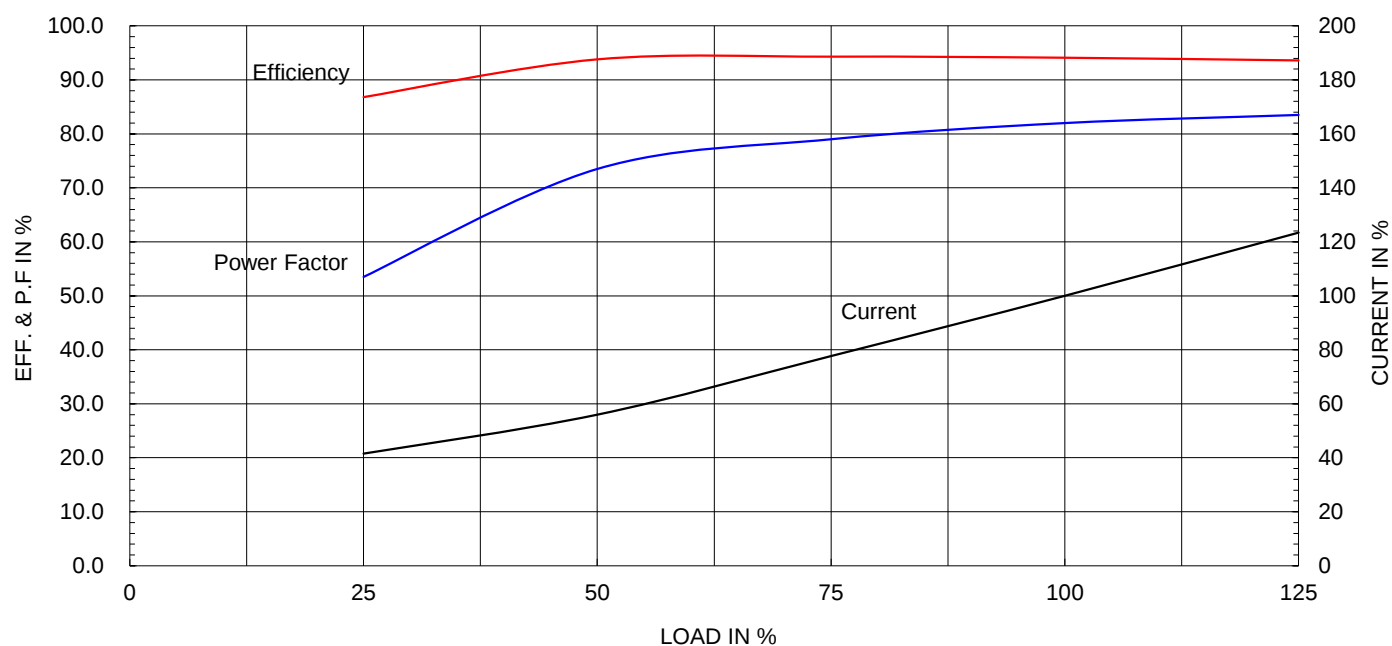
Type :	HLP-30/4	
Full Load Torque :	16.4	kg.m
Motor moment of Inertia (J) :	0.190	kg.m ²
Load moment of Inertia (J) :	17.248	kg.m ²

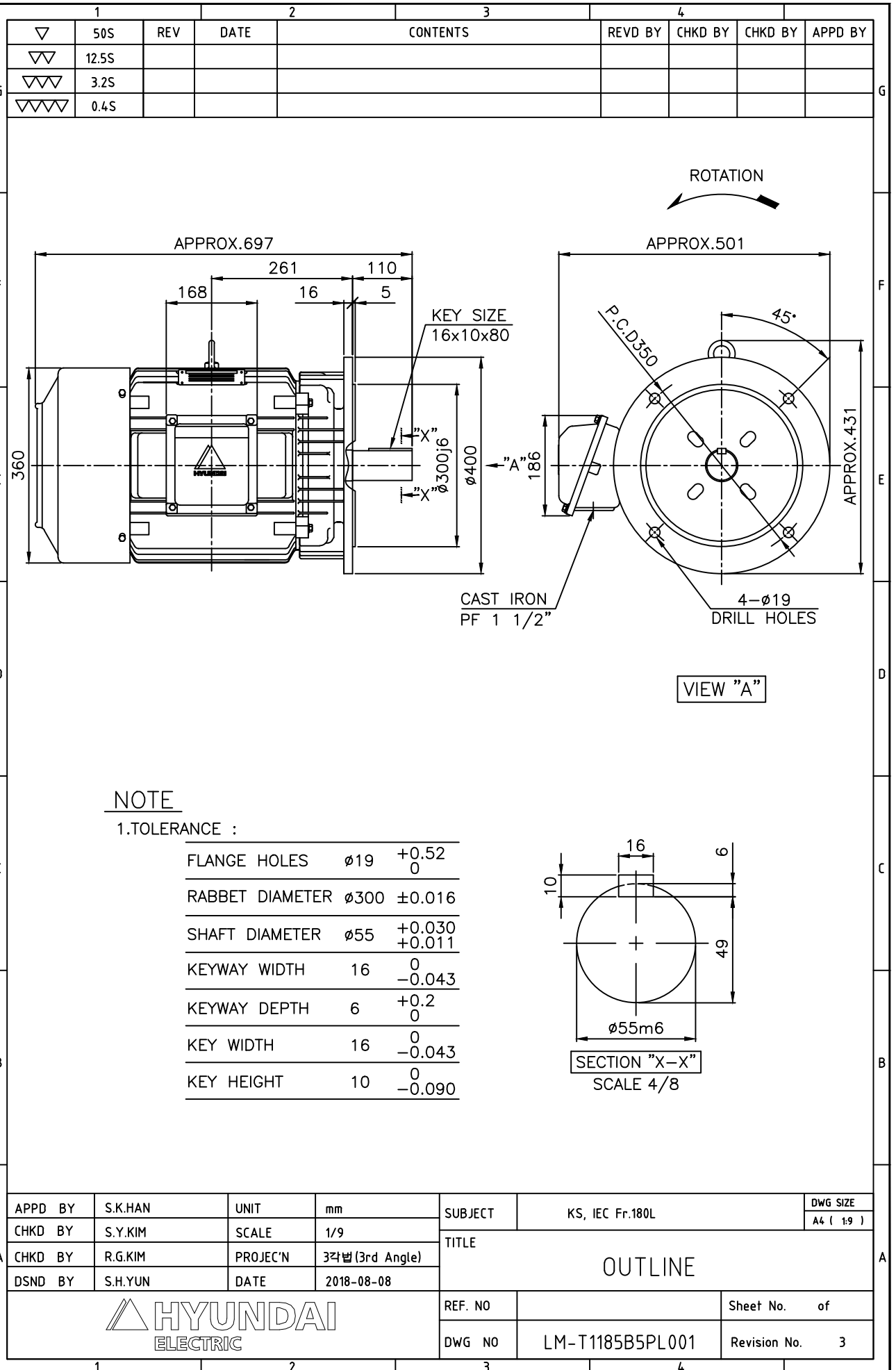
30 kW	4 P	60 Hz
Speed at Full Load : 1780 RPM		
Rated Voltage	460V	
Full Load Current	48.8A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





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HYUNDAI
ELECTRIC



▽	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	1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8	4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2	18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0	63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0	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		