

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.		4606KSTD40SSDS1STFE3V11DL0SD		Item No.		Rev. No.	[]	
Project Name				Project No.		Quantity		
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame Size		180M		Rated Output		22 kW 30 HP		
Type		HLP-22/2		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 33.8 A		
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor**		950 %		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		80 deg. C		50% Load		90.6 %		
Motor Location		☒ Indoor ☐ Outdoor		75% Load		91.9 %		
Altitude		Less than 1000		100% Load		91.7 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)				
Ambient Temp.		40 deg. C (Max.)		50% Load		0.845		
Duty Type		Continuous(S1)		75% Load		0.878		
Service Factor		1.15		100% Load		0.890		
Mounting		☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load		3560 r.p.m		
Bearing	Type	Anti-Friction		Torque				
	DE/N-DE	6212ZZC3 / 6310ZZC3		Full Load		6.0 kg·m		
	Lubricant	Grease(Polyrex-EM)		Locked-rotor**		160 %		
External Thrust		Not applicable		Breakdown**		230 %		
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension		☒ Single ☐ Double		Load(Max.)		2.850 kg·m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor		0.088 kg·m ²		
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing				86 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.)		
				V1		LM-T1183V1PL001	189 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-22/2**

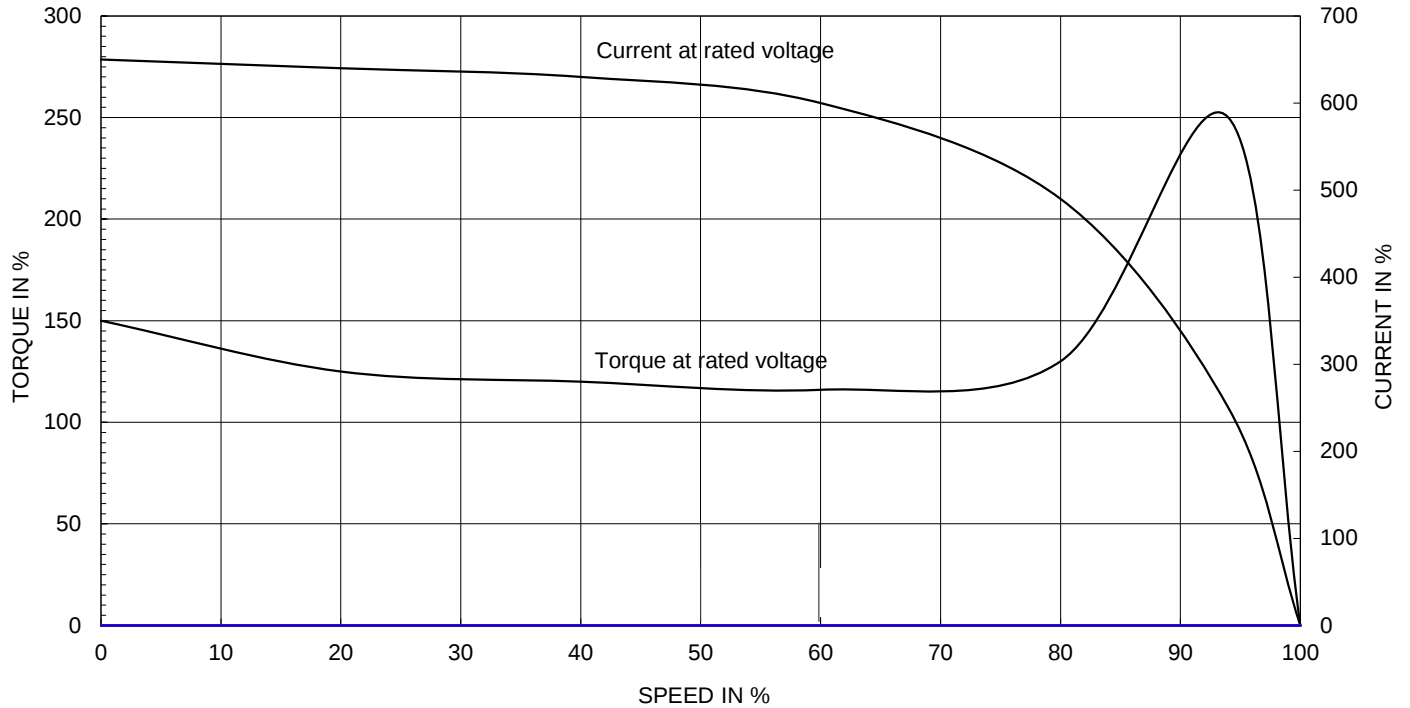
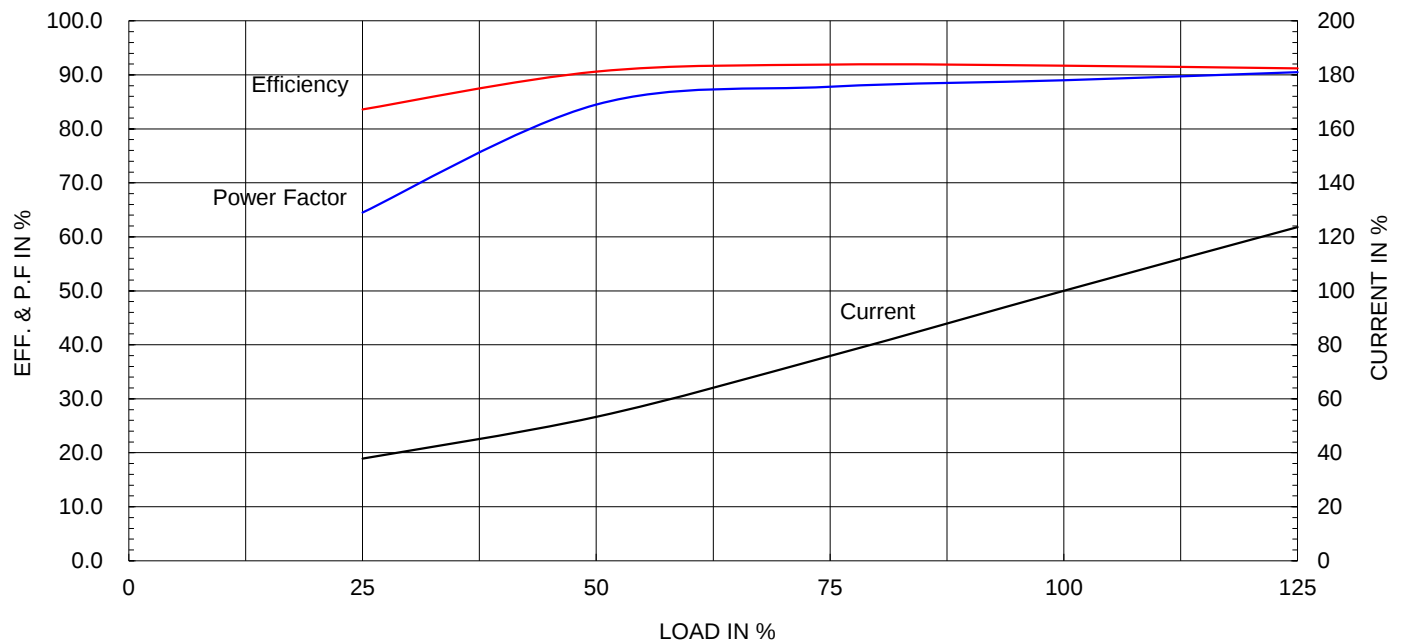
Full Load Torque : 6.0 kg.m

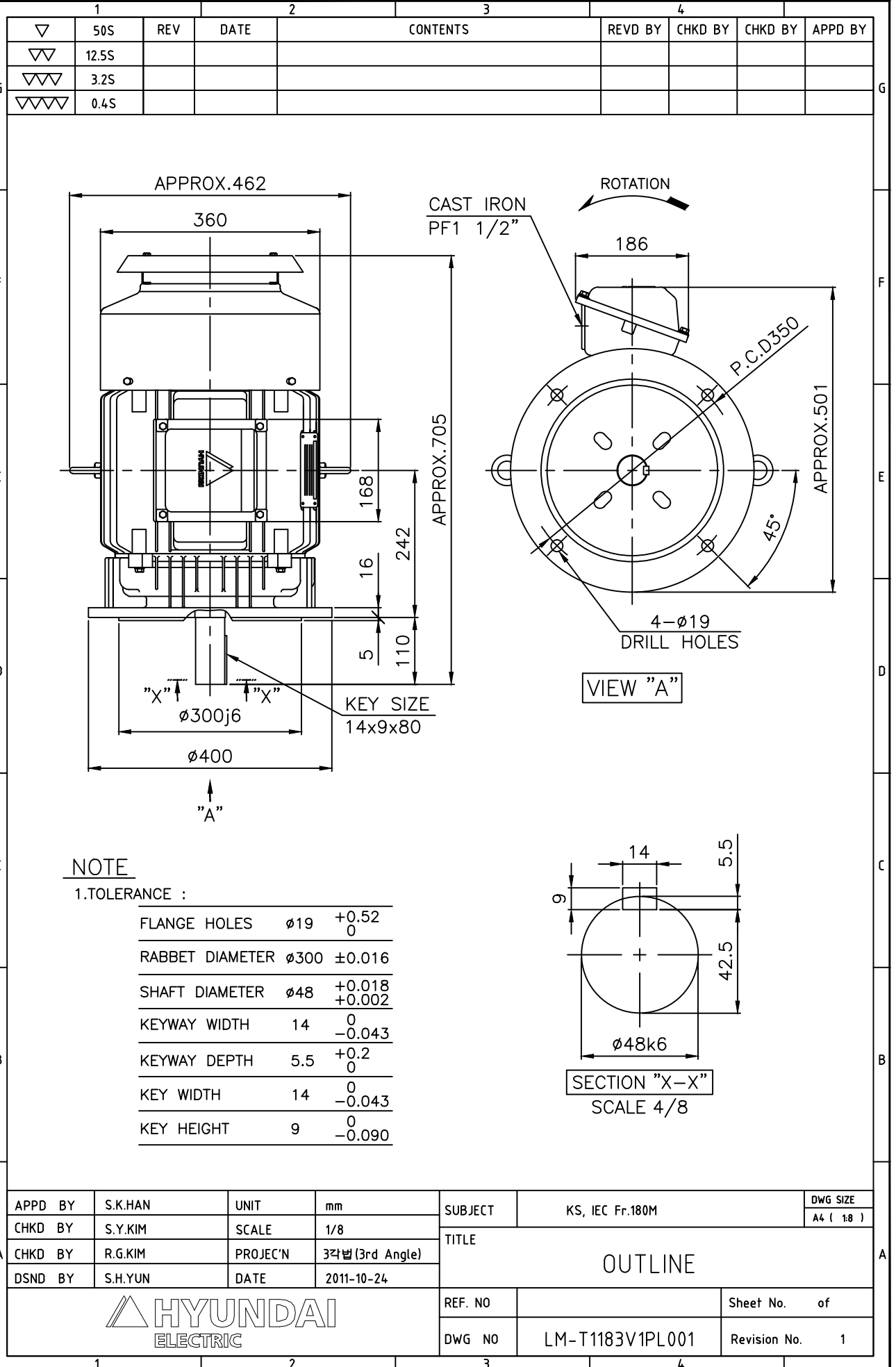
 Motor moment of Inertia (J) : **0.088** kg.m²

 Load moment of Inertia (J) : **2.850** kg.m²
22 kW
2 P
60 Hz

 Speed at Full Load : **3560 RPM**

 Rated Voltage **460V**

 Full Load Current **33.8A**
SPEED VS TORQUE & CURRENT CURVE

OUTPUT VS EFF., P.F & CURRENT CURVE




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HYUNDAI
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▽	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		TITLE Main Terminal Box Assembly					A3 (1:2)
CHKD	BY	R.G.KIM		PROJEC'N	3각법 (3rd Angle)							
DSND	BY	H.K.LEE		DATE	2011-08-30							
							REF. NO	227B8008LA2		Sheet No.	of	
							DWG NO	3M-145860		Revision No.	2	
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