

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.		3806KSTD40SSDS1STFE3V11DL0SD		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		380 V							
Number of Phases		3		Current		Full Load		41.0 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·m²					
Terminal Box	Main	☐ Steel ☒ Cast Iron				Motor		0.088 kg·m²					
	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

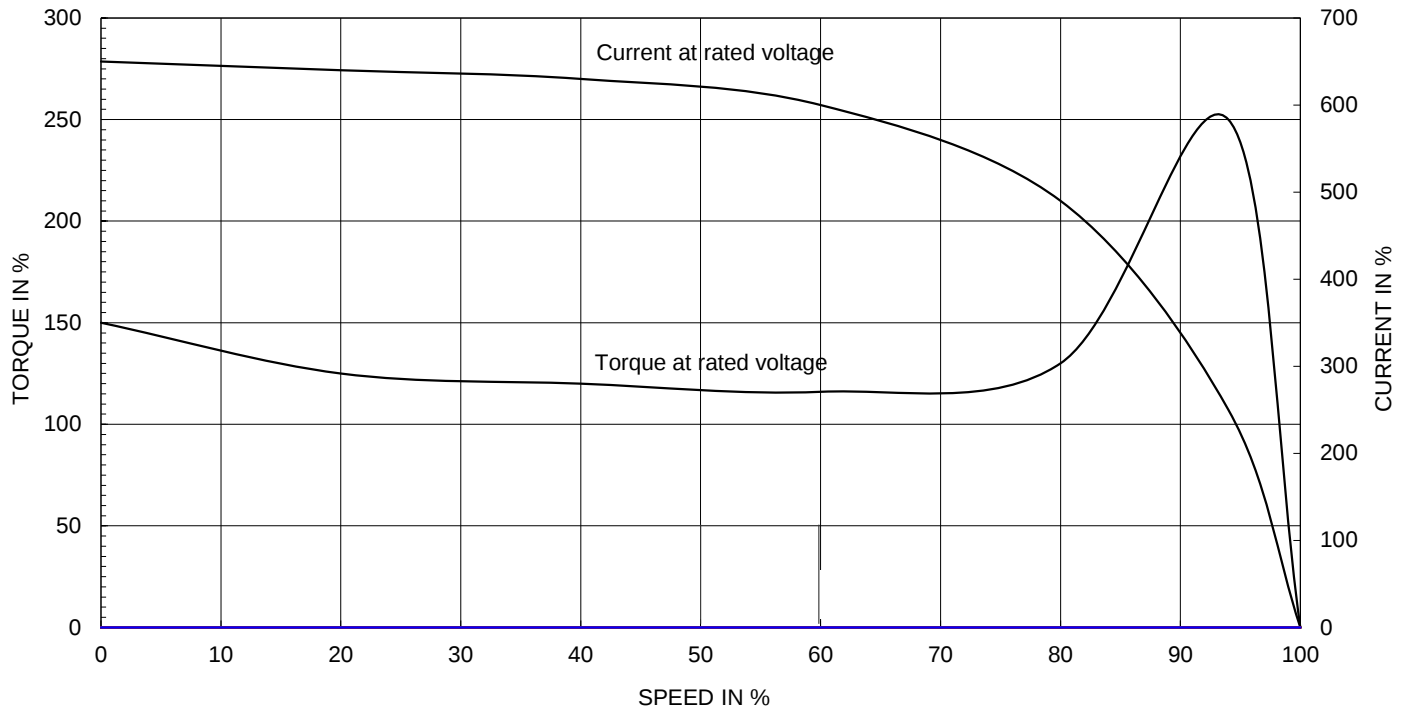
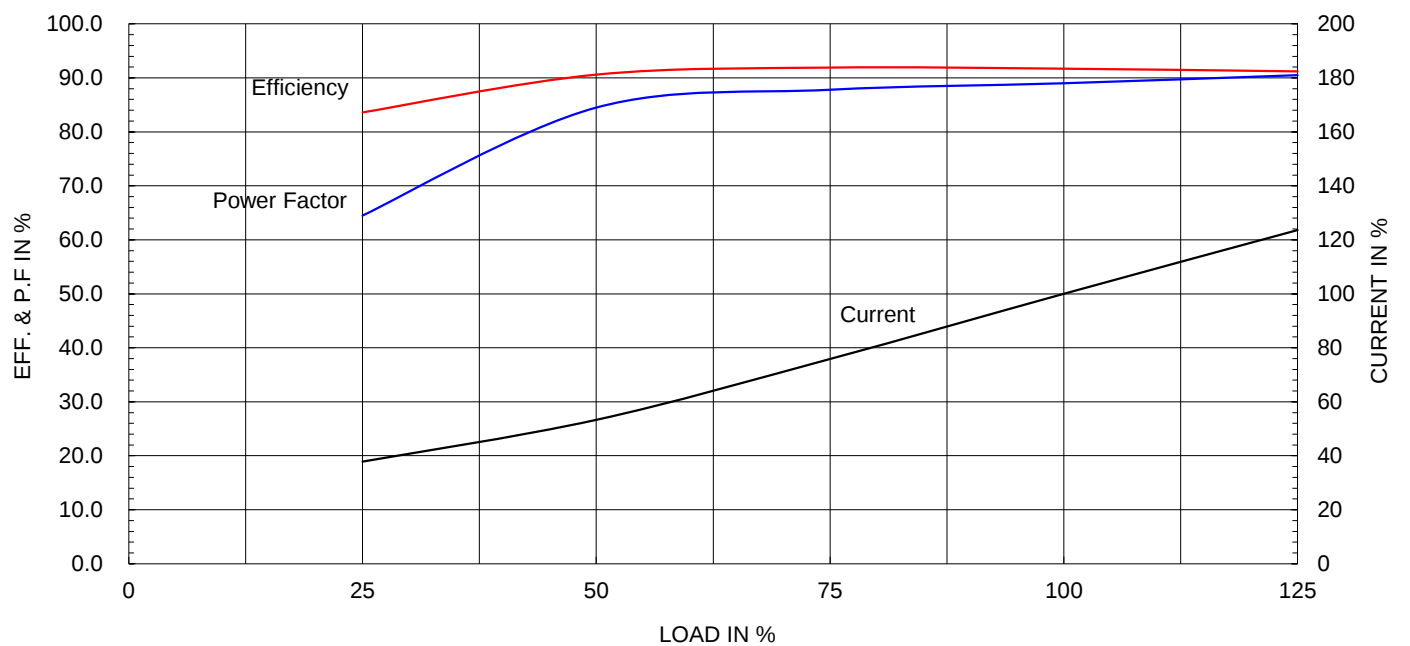
 Motor moment of Inertia (J) : **0.088** kg.m²

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

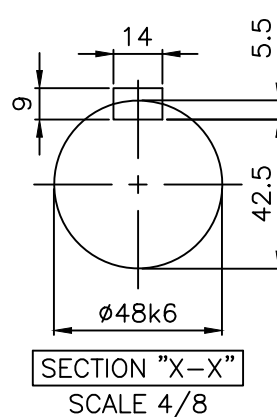
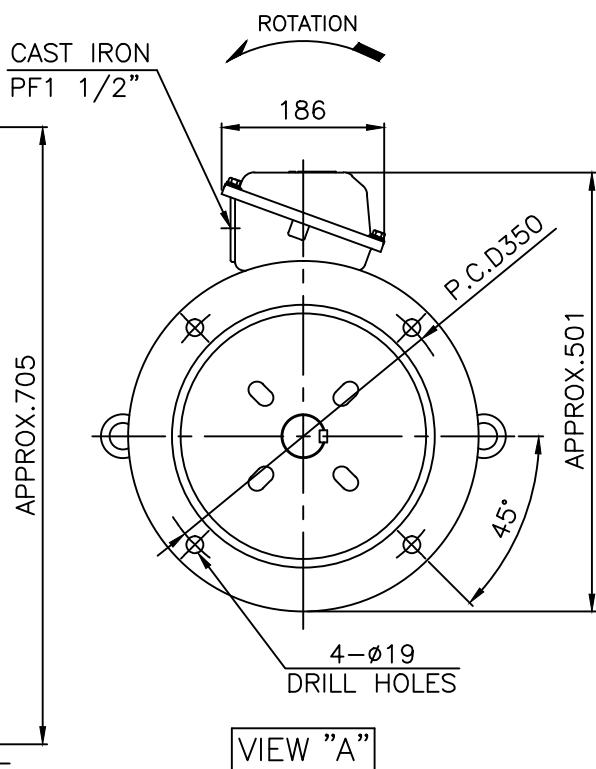
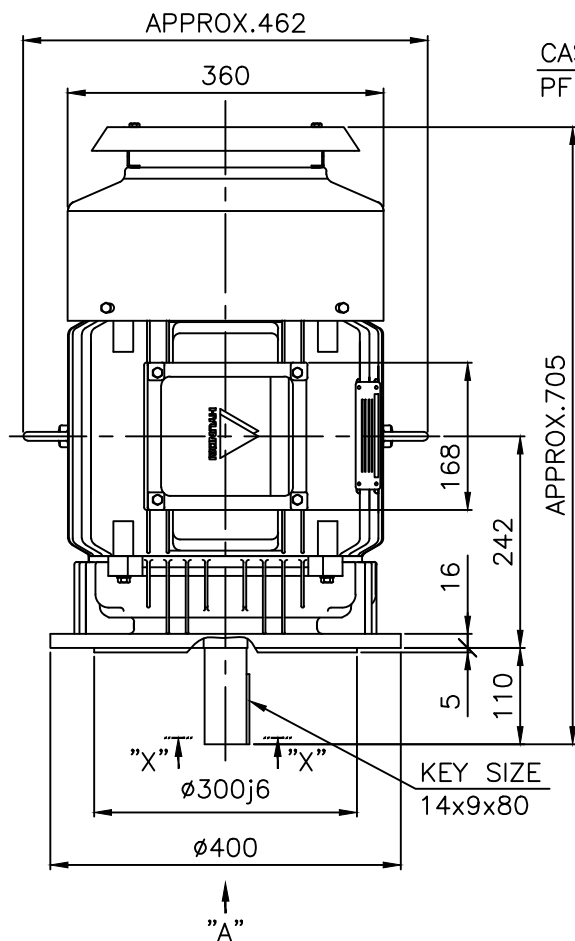
 Speed at Full Load : **3560 RPM**

 Rated Voltage **380V**

Full Load Current 41.0A

SPEED VS TORQUE & CURRENT CURVE

OUTPUT VS EFF., P.F & CURRENT CURVE


1			2		3		4		
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



NOTE

1.TOLERANCE :

FLANGE HOLES	ø19	+0.52 0
RABBET DIAMETER	ø300	±0.016
SHAFT DIAMETER	ø48	+0.018 +0.002
KEYWAY WIDTH	14	0 -0.043
KEYWAY DEPTH	5.5	+0.2 0
KEY WIDTH	14	0 -0.043
KEY HEIGHT	9	0 -0.090

APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.180M	DWG SIZE	
CHKD BY	S.Y.KIM	SCALE	1/8	TITLE OUTLINE			A4 (18)
CHKD BY	R.G.KIM	PROJEC'N	3각법(3rd Angle)				
DSND BY	S.H.YUN	DATE	2011-10-24				
				REF. NO		Sheet No. of	
				DWG NO	LM-T1183V1PL001	Revision No. 1	
1		2		3		4	

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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		