

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.		4406KSTD40SSDS1STFE3B51DL0SDS		Item No.		Rev. No.		[]	
Project Name				Project No.		Quantity			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		112M		Rated Output		3.7 kW		5 HP	
Type		HKP-3.7/2		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		440 V			
Number of Phases		3		Current		Full Load		6.4 A	
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		915 %	
Temp. Rise at full load (by resistance method)				Efficiency					
at 1.0 S.F		80 deg. C				50% Load		79.8 %	
Motor Location		☒ Indoor ☐ Outdoor				75% Load		87.4 %	
Altitude		Less than 1000				100% Load		88.5 %	
Relative Humidity		Less than 80 %		Power Factor(p.u)					
Ambient Temp.		40 deg. C (Max.)				50% Load		0.750	
Duty Type		Continuous(S1)				75% Load		0.825	
Service Factor		1.15				100% Load		0.860	
Mounting		☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		3515 r.p.m			
Bearing		Type		Anti-Friction		Torque			
		DE/N-DE		6206ZZC3 / 6206ZZC3		Full Load		1.0 kg·m	
		Lubricant		Grease(Polyrex-EM)		Locked-rotor**		190 %	
External Thrust		Not applicable				Breakdown**		260 %	
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)					
Shaft Extension		☒ Single ☐ Double				Load(Max.)		0.800 kg·m²	
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor		0.007 kg·m²	
		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-T0113B5PL001		53 kg	
				Main T-Box Ass'y		3M-148549			
SPARE PARTS				REMARK					
				*.Premium Efficiency(IE3) *.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise					
				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.

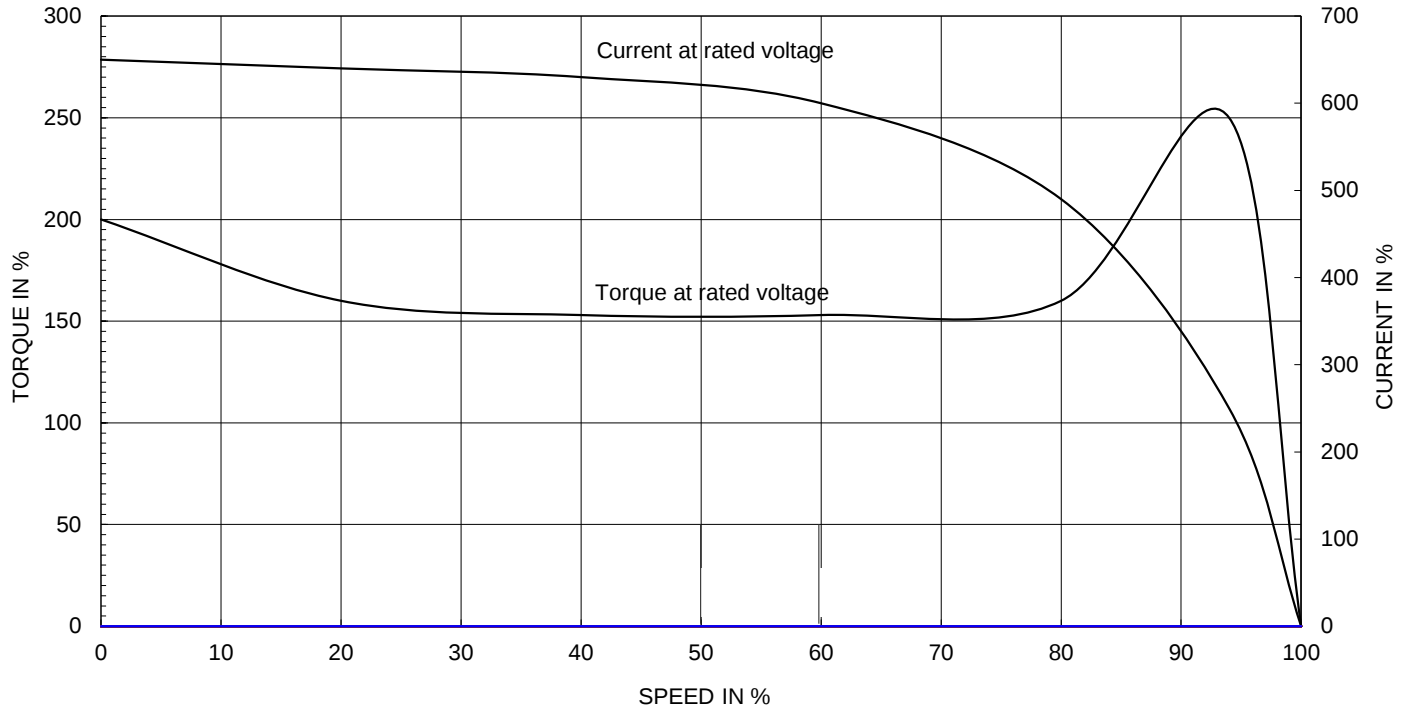
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

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

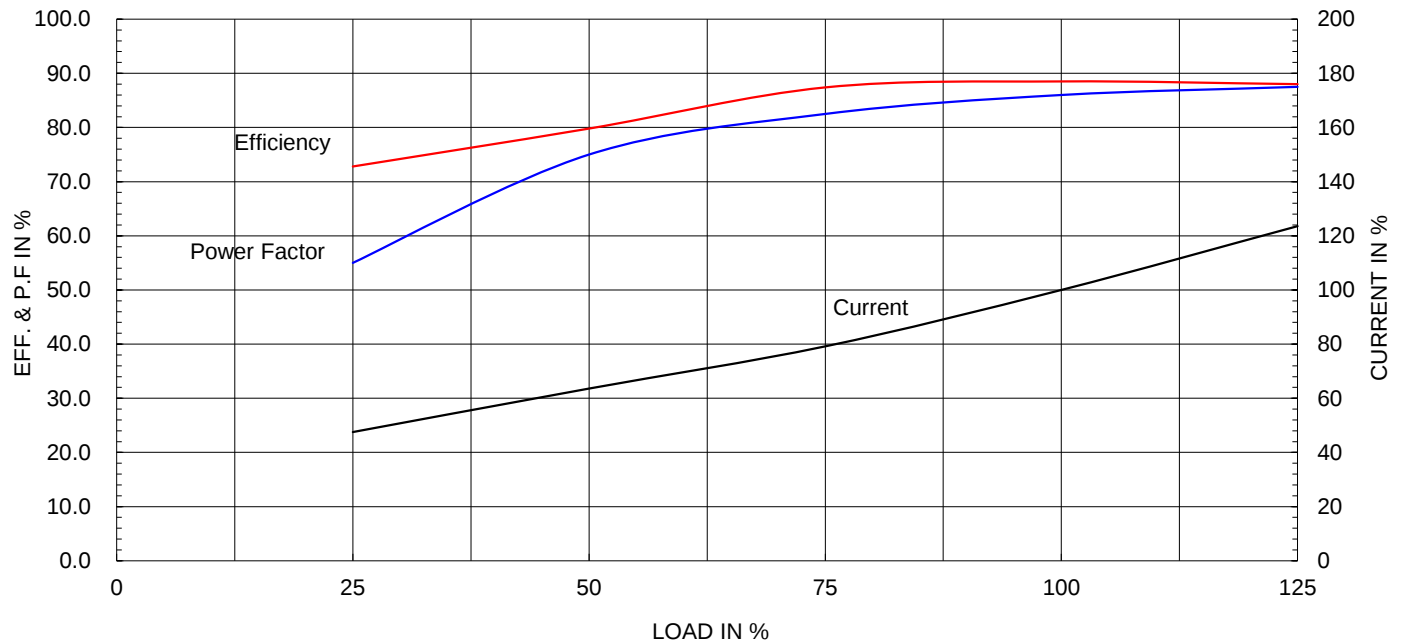
Type :	HKP-3.7/2	
Full Load Torque :	1.0	kg.m
Motor moment of Inertia (J) :	0.007	kg.m ²
Load moment of Inertia (J) :	0.800	kg.m ²

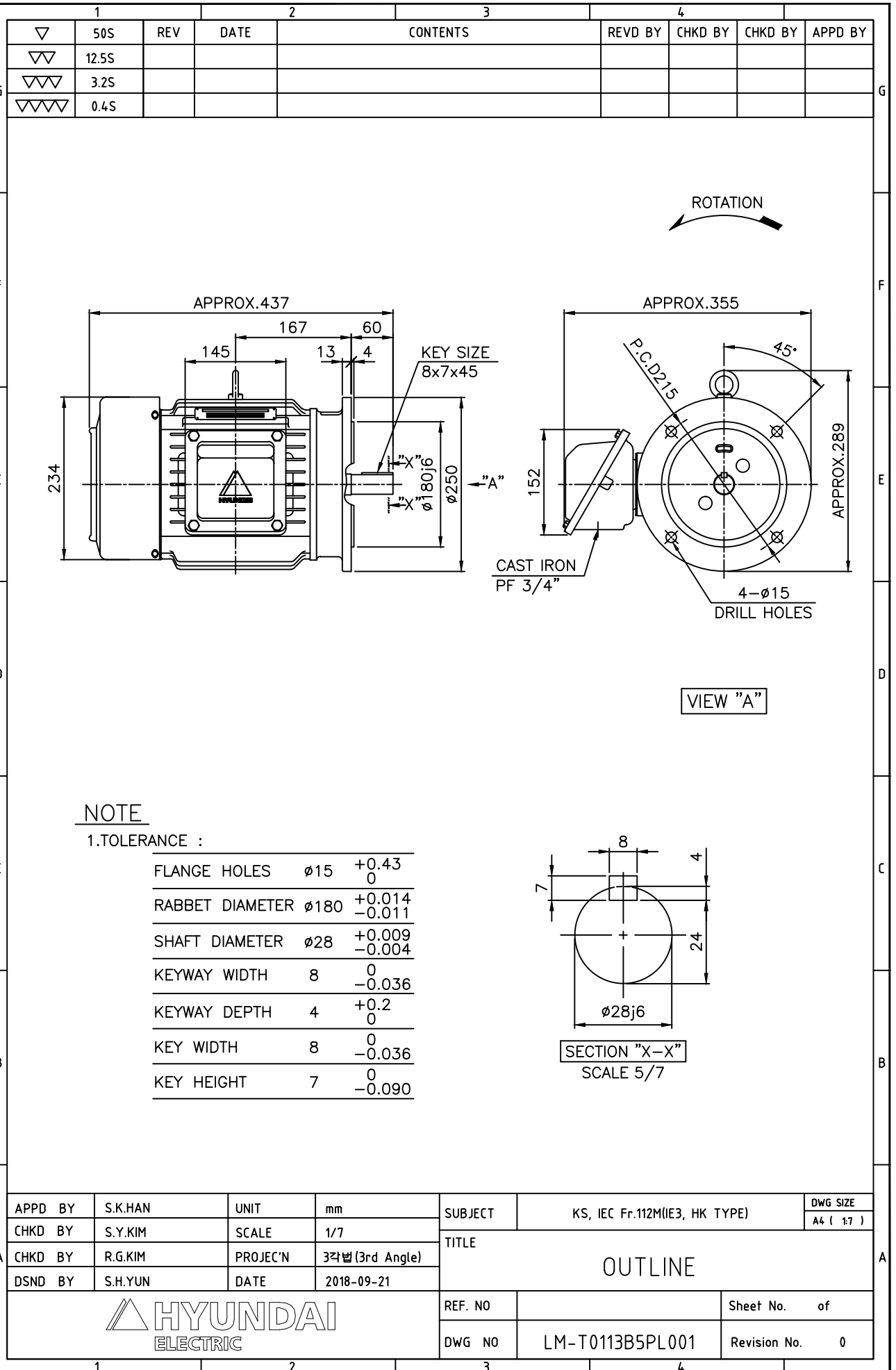
3.7 kW	2 P	60 Hz
Speed at Full Load : 3515 RPM		
Rated Voltage	440V	
Full Load Current	6.4A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE







▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY

일반가공공차	일반재공공차
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.100~132 (CAST IRON)	DWG SIZE	
CHKD BY	S.Y.KIM	SCALE	1/2	TITLE	Terminal Box Arrangement	A3 (1:2)	
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	REF. NO	227B8004CB	Sheet No.	of
DSND BY	H.K.LEE	DATE	2011-10-26	DWG NO	3M-148549	Revision No.	2