

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.		4606KSTD40SSDS1STFE3351DL0SDS		Item No.		Rev. No.	[]	
Project Name				Project No.		Quantity		
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame Size		112M		Rated Output		2.2 kW 3 HP		
Type		HKP-2.2/6		Number of Poles		6		
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 4.5 A		
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor**		730 %		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		80 deg. C		50% Load		85.7 %		
Motor Location		☒ Indoor ☐ Outdoor		75% Load		88.5 %		
Altitude		Less than 1000		100% Load		89.5 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)				
Ambient Temp.		40 deg. C (Max.)		50% Load		0.490		
Duty Type		Continuous(S1)		75% Load		0.610		
Service Factor		1.15		100% Load		0.680		
Mounting		☐ B3 ☐ B5 ☐ V1 ☒ B3/B5		Speed at Full Load		1175 r.p.m		
Bearing	Type	Anti-Friction		Torque				
	DE/N-DE	6206ZZC3 / 6206ZZC3		Full Load		1.8 kg·m		
	Lubricant	Grease(Polyrex-EM)		Locked-rotor**		180 %		
External Thrust		Not applicable		Breakdown**		250 %		
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension		☒ Single ☐ Double		Load(Max.)		4.750 kg·m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor		0.030 kg·m ²		
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing				60 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.)		
				B3/B5		LM-T0113B4PL001	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

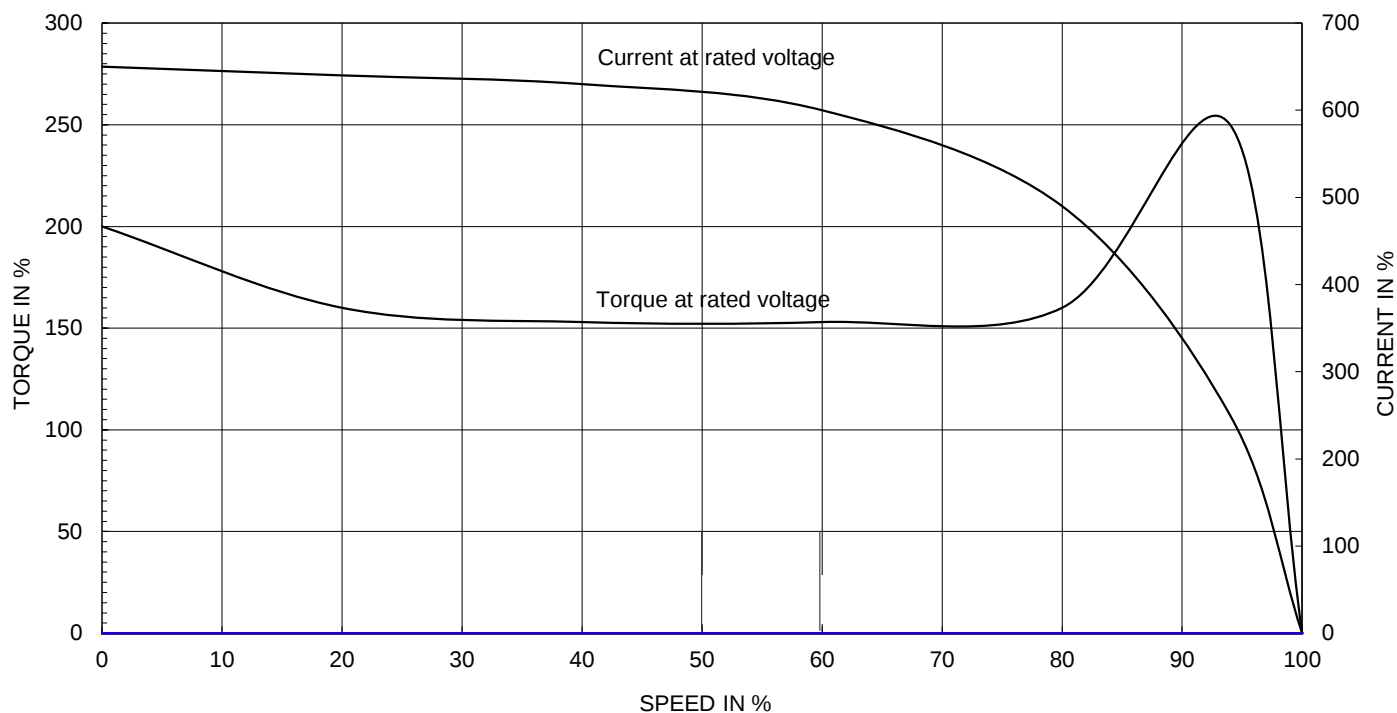
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
Inspection and performance test shall be maker standard, if not mentioned.
* In case of Inverter-Fed Motor, 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.

HEES W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

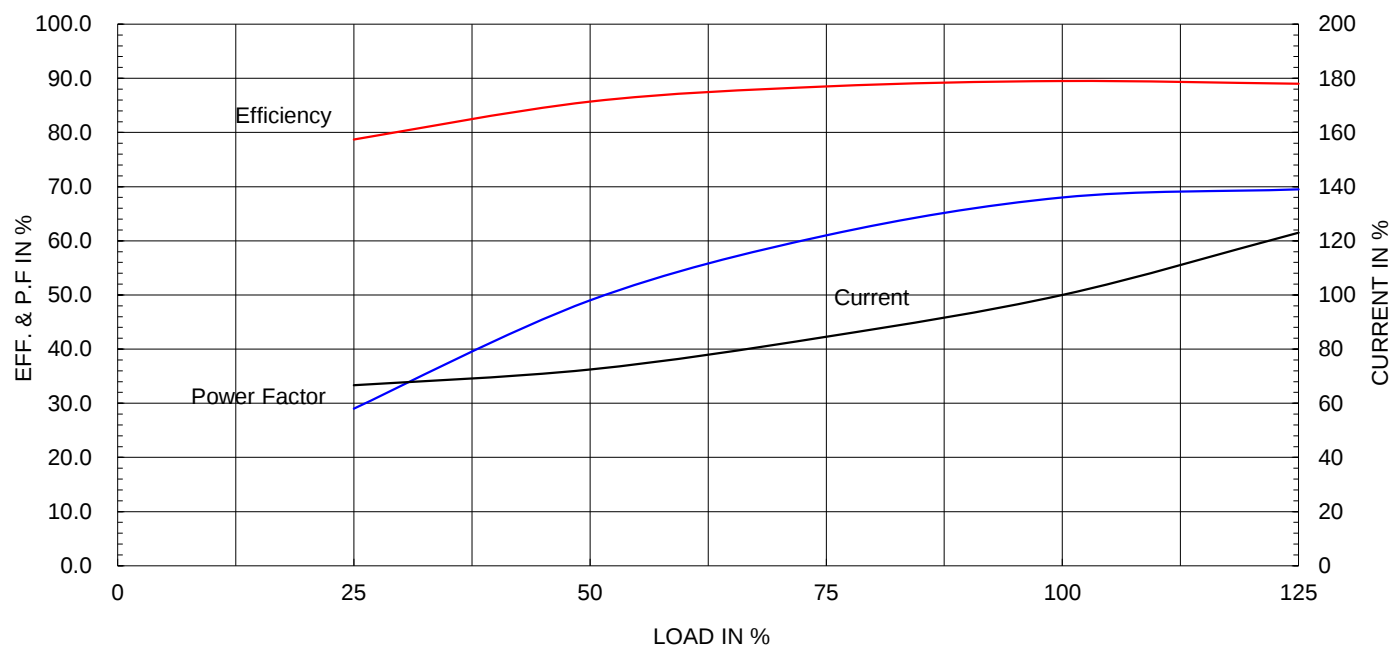
Type :	HKP-2.2/6	
Full Load Torque :	1.8	kg.m
Motor moment of Inertia (J) :	0.030	kg.m ²
Load moment of Inertia (J) :	4.750	kg.m ²

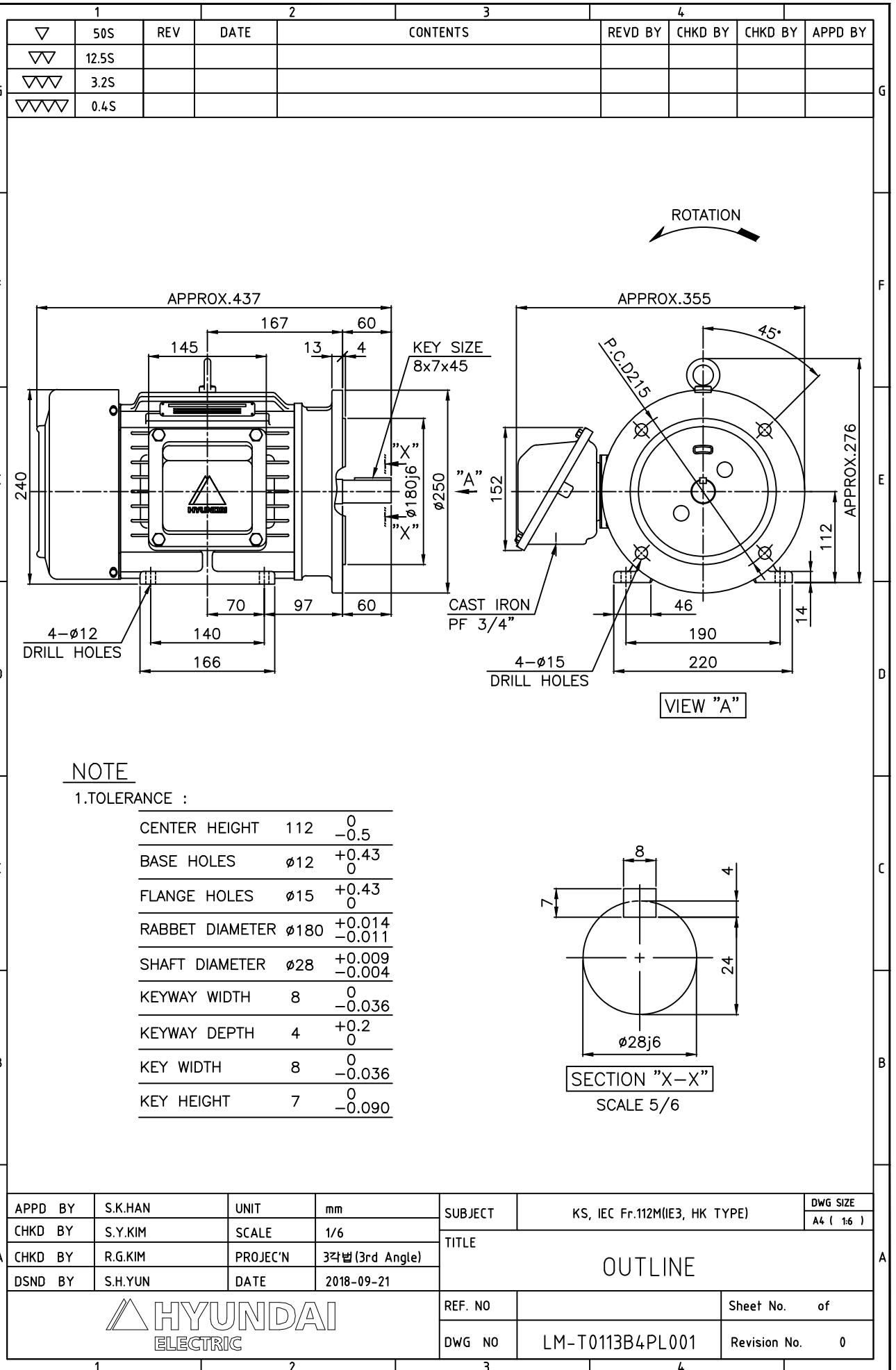
2.2 kW	6 P	60 Hz
Speed at Full Load : 1175 RPM		
Rated Voltage	460V	
Full Load Current	4.5A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.112M(IE3, HK TYPE)	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/6			A4 (16)
CHKD BY	R.G.KIM	PROJEC'N	3각법(3rd Angle)	TITLE	OUTLINE	
DSND BY	S.H.YUN	DATE	2018-09-21			
				REF. NO		Sheet No. of
				DWG NO	LM-T0113B4PL001	Revision No. 0



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD 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