

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.		3806KSTD40SSDS1STFE3351DL0SDS		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		380 V		
Number of Phases		3		Current	Full Load	7.4 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·m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor		0.007 kg·m ²		
	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.)		
				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

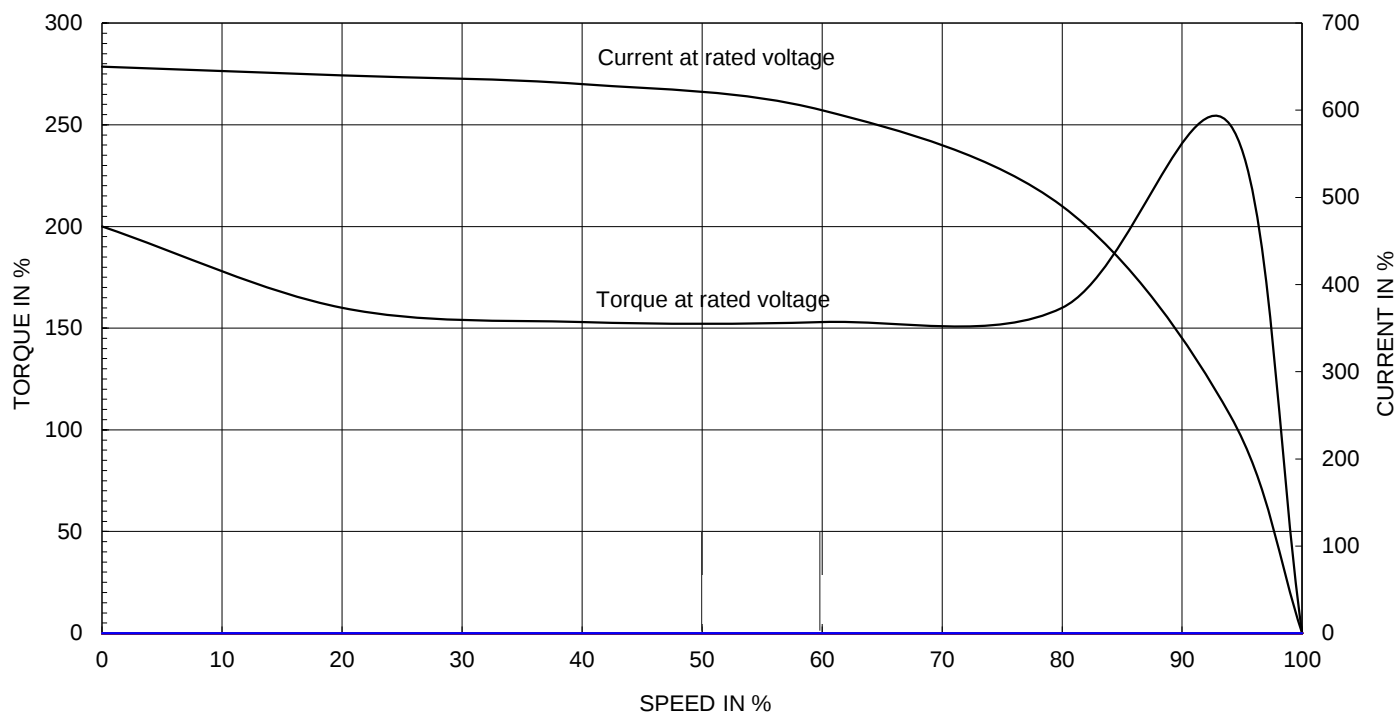
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
Inspection and performance test shall be maker standard, if not mentioned.
* In case of Inverter-Fed Motor,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

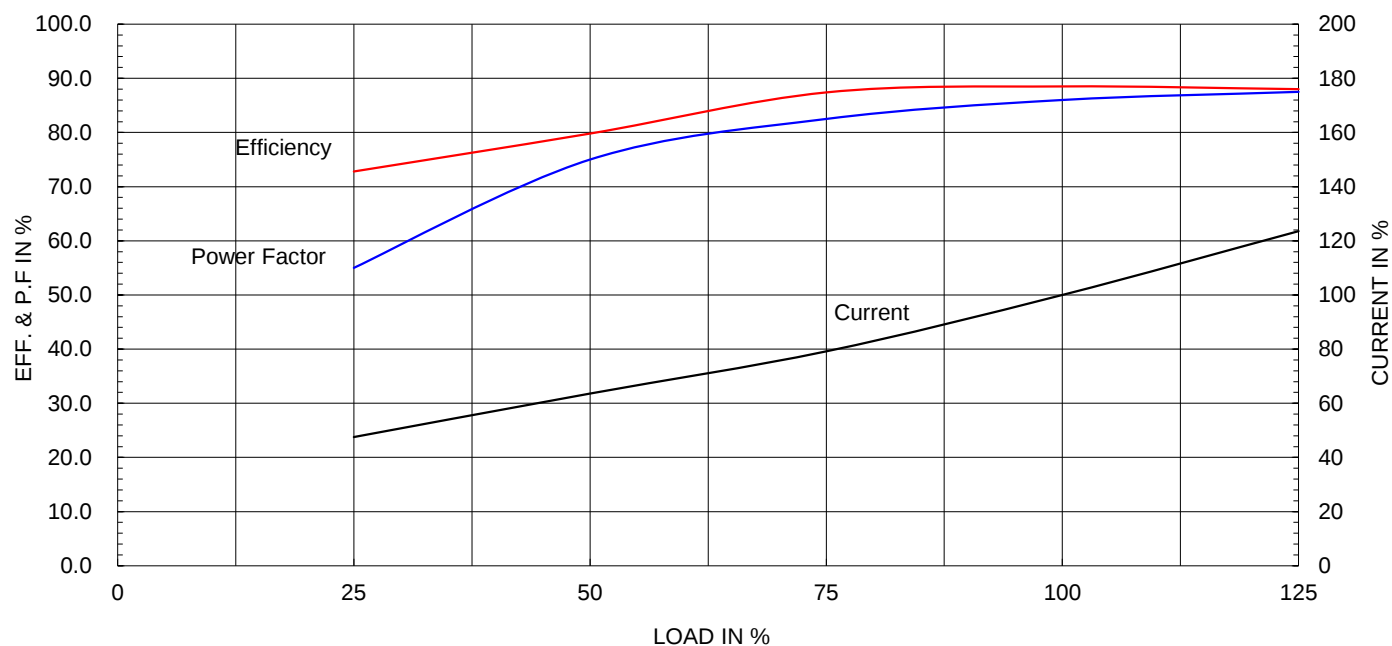
Type :	HKP-3.7/2	
Full Load Torque :	1.0	kg.m
Motor moment of Inertia (J) :	0.007	kg.m ²
Load moment of Inertia (J) :	0.800	kg.m ²

3.7 kW	2 P	60 Hz
Speed at Full Load : 3515 RPM		
Rated Voltage	380V	
Full Load Current	7.4A	

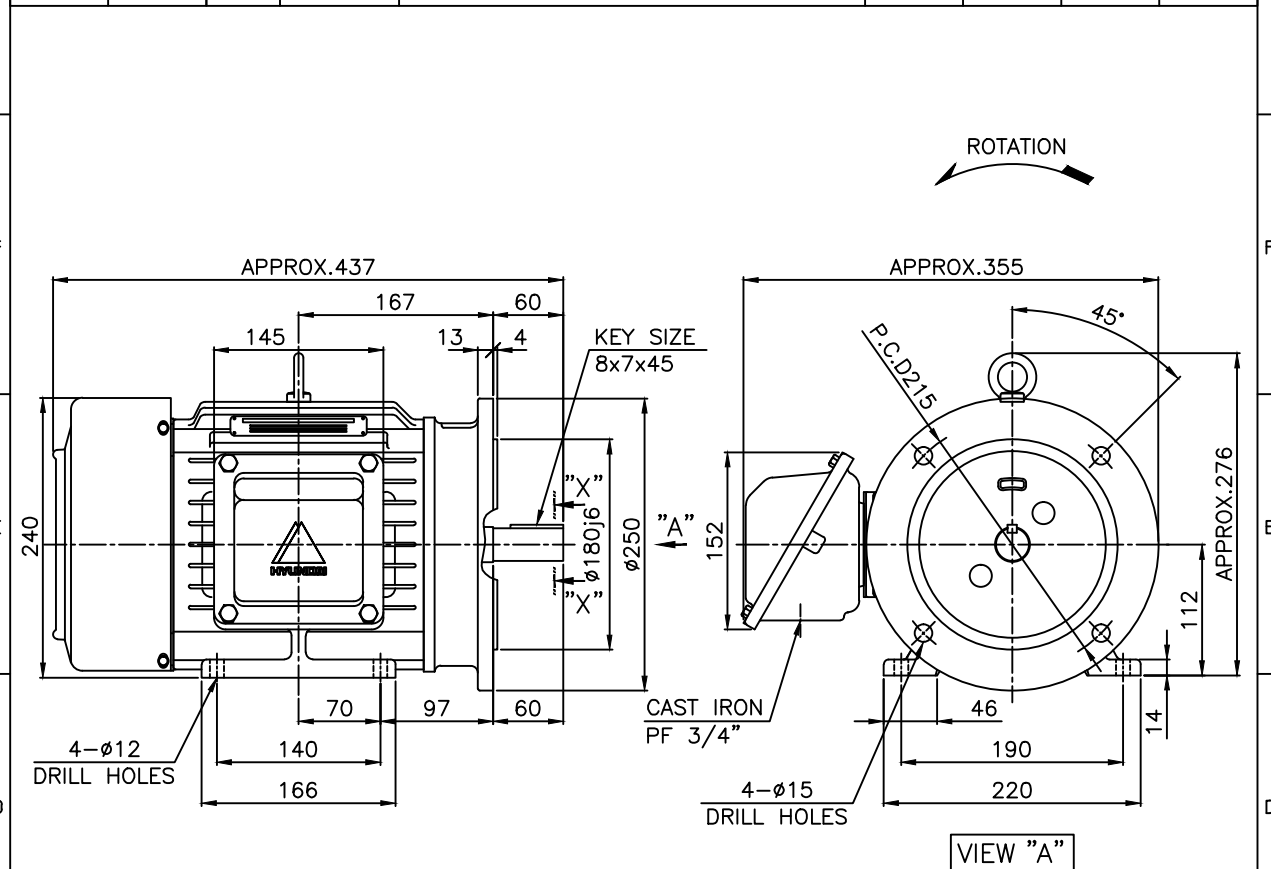
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



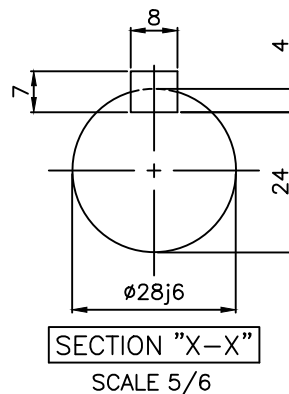
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



NOTE

1.TOLERANCE :

CENTER HEIGHT	112	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 12$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
FLANGE HOLES	$\phi 15$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
RABBET DIAMETER	$\phi 180$	$\begin{matrix} +0.014 \\ -0.011 \end{matrix}$
SHAFT DIAMETER	$\phi 28$	$\begin{matrix} +0.009 \\ -0.004 \end{matrix}$
KEYWAY WIDTH	8	$\begin{matrix} 0 \\ -0.036 \end{matrix}$
KEYWAY DEPTH	4	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	8	$\begin{matrix} 0 \\ -0.036 \end{matrix}$
KEY HEIGHT	7	$\begin{matrix} 0 \\ -0.090 \end{matrix}$



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.112M(IE3, HK TYPE)	DWG SIZE	A4 (1/6)
CHKD BY	S.Y.KIM	SCALE	1/6	TITLE	OUTLINE		
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)				
DSND BY	S.H.YUN	DATE	2018-09-21				
HYUNDAI ELECTRIC				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

