

Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION for INDUCTION MOTOR



Contents

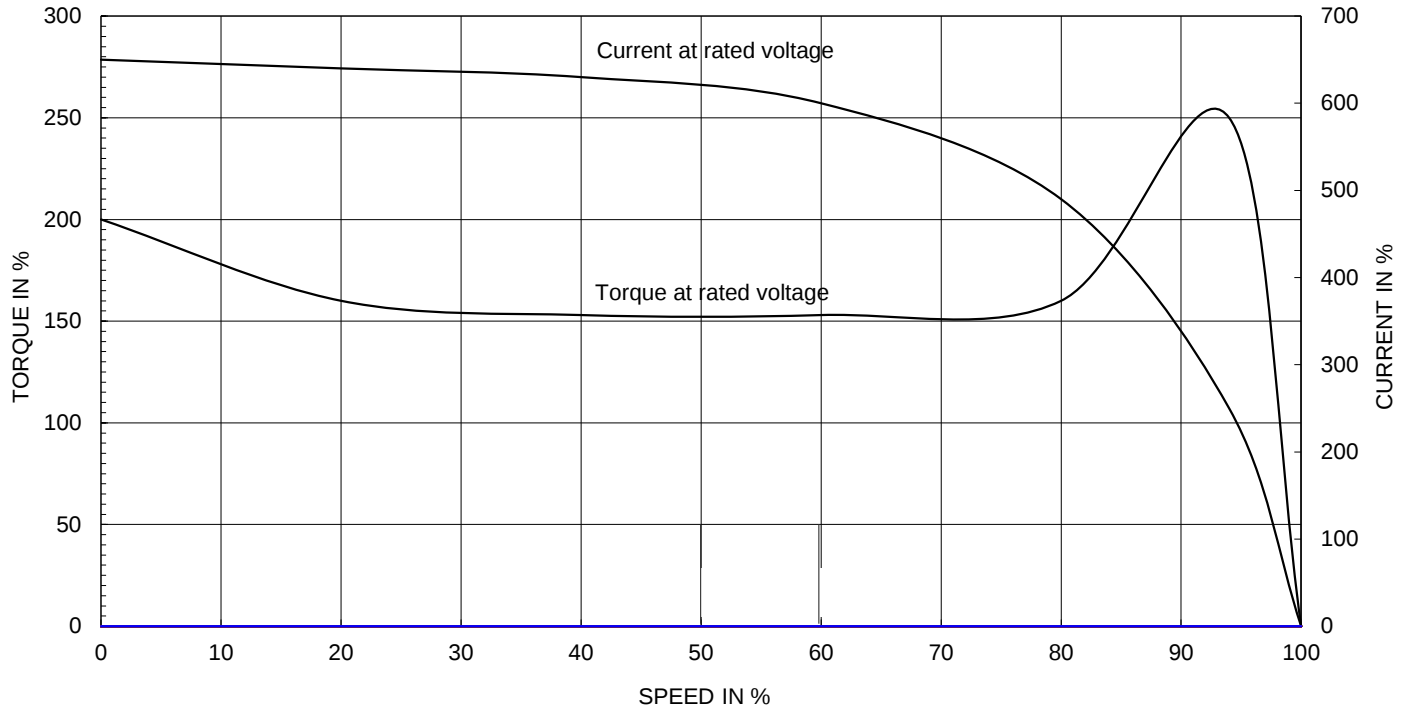
1 . Data Sheet of AC Induction Motor	- 1Sheets
2 . Speed-Torque & Current Curve	- 1Sheets
3 . Outline Dimension Drawing	- 1Sheets
4 . Main Terminal Box Drawing	- 1Sheets

		AC INDUCTION MOTOR DATA SHEET						
Model No.or RFQ No.		4606KSTD40SSDS1STFE3V11DL0SDS		Item No.		Rev. No.	[]	
Project Name				Project No.		Quantity		
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame Size		132S		Rated Output		7.5 kW 10 HP		
Type		HKP-7.5/2		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 12.0 A		
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor**		860 %		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		80 deg. C		50% Load		87.8 %		
Motor Location		☒ Indoor ☐ Outdoor		75% Load		89.7 %		
Altitude		Less than 1000		100% Load		90.2 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)				
Ambient Temp.		40 deg. C (Max.)		50% Load		0.800		
Duty Type		Continuous(S1)		75% Load		0.850		
Service Factor		1.15		100% Load		0.870		
Mounting		☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load		3525 r.p.m		
Bearing	Type	Anti-Friction		Torque				
	DE/N-DE	6208ZZC3 / 6208ZZC3		Full Load		2.1 kg·m		
	Lubricant	Grease(Polyrex-EM)		Locked-rotor**		160 %		
External Thrust		Not applicable		Breakdown**		260 %		
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension		☒ Single ☐ Double		Load(Max.)		1.600 kg·m²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor		0.019 kg·m²		
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing				76 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.)		
				V1		LM-T0131V1PL001	72 kg	
				Main T-Box Ass'y		3M-148549		
				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.								
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)								

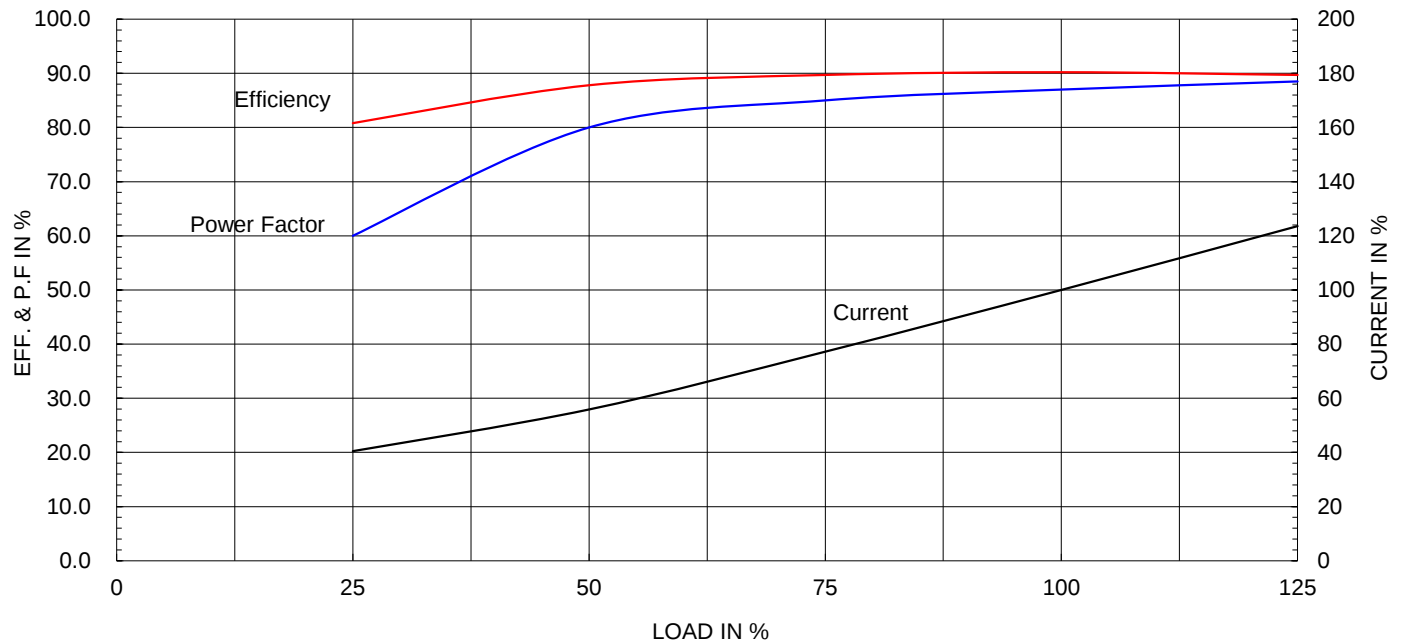
Type :	HKP-7.5/2	
Full Load Torque :	2.1	kg.m
Motor moment of Inertia (J) :	0.019	kg.m ²
Load moment of Inertia (J) :	1.600	kg.m ²

7.5 kW	2 P	60 Hz
Speed at Full Load : 3525 RPM		
Rated Voltage	460V	
Full Load Current	12.0A	

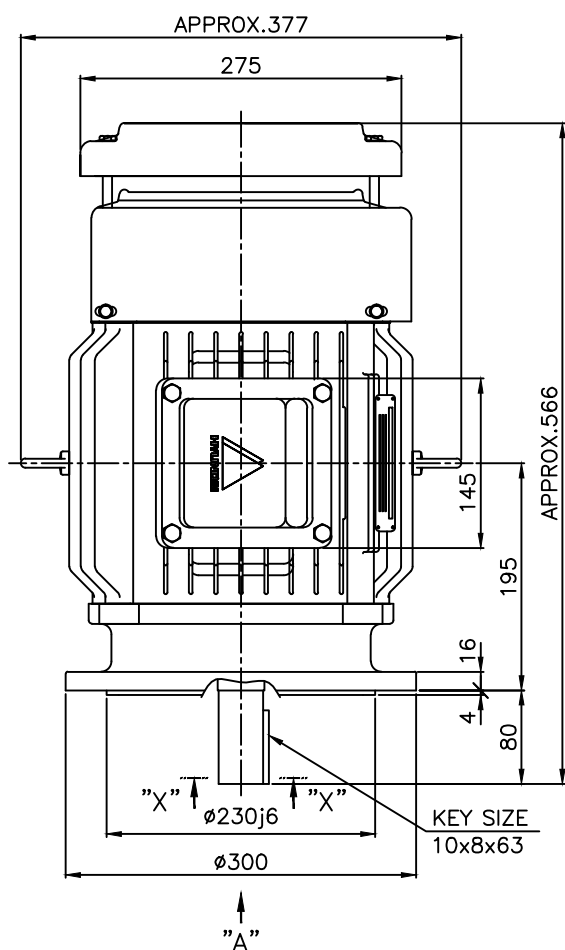
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



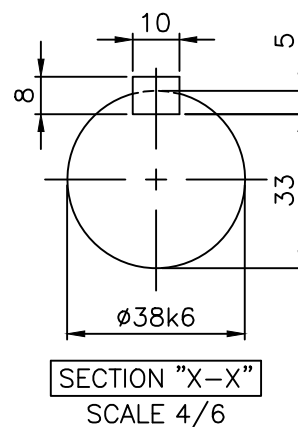
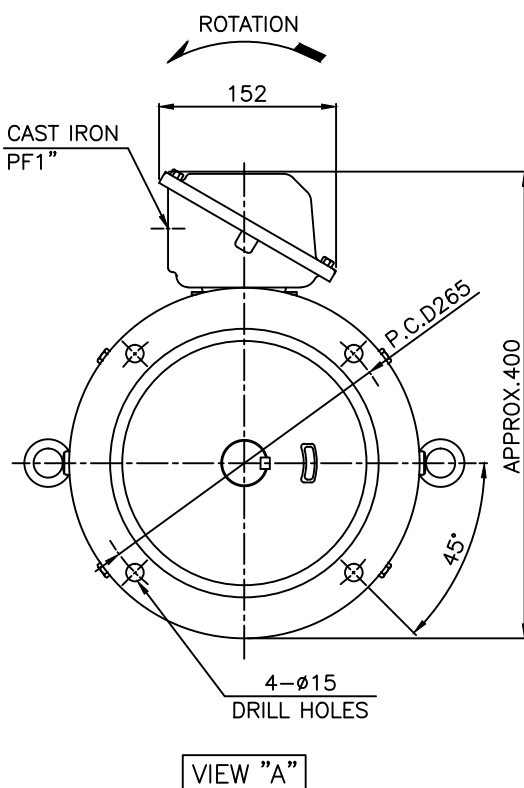
1			2		3		4		
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



NOTE

1.TOLERANCE :

FLANGE HOLES	ø15	+0.43 0
RABBET DIAMETER	ø230	+0.016 -0.013
SHAFT DIAMETER	ø38	+0.018 +0.002
KEYWAY WIDTH	10	0 -0.036
KEYWAY DEPTH	5	+0.2 0
KEY WIDTH	10	0 -0.036
KEY HEIGHT	8	0 -0.090



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.132S(IE3, HK TYPE)	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/6			A4 (1:6)
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	TITLE	OUTLINE	
DSND BY	S.H.YUN	DATE	2018-09-19			
				REF. NO		Sheet No. of
				DWG NO	LM-T0131V1PL001	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

