

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

SPECIFICATION for INDUCTION MOTOR



Contents

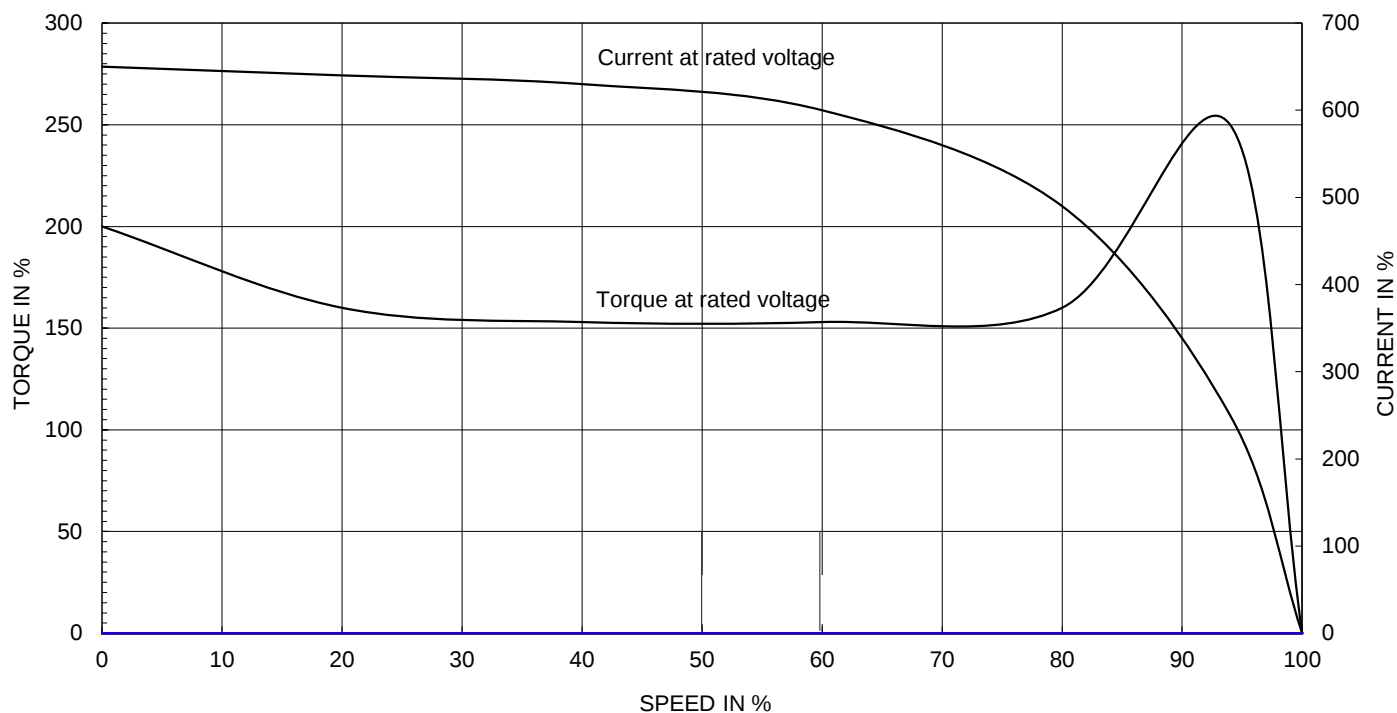
1 . Data Sheet of AC Induction Motor	- 1Sheets
2 . Speed-Torque & Current Curve	- 1Sheets
3 . Outline Dimension Drawing	- 1Sheets
4 . Main Terminal Box Drawing	- 1Sheets

		AC INDUCTION MOTOR DATA SHEET							
Model No.or RFQ No.		4406KSTD40SSDS1STFE3B51DL0SDS		Item No.		Rev. No.		[]	
Project Name				Project No.		Quantity			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		132S		Rated Output		5.5 kW		8 HP	
Type		HKP-5.5/4		Number of Poles		4			
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		10.0 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		90.1 %	
Motor Location		☒ Indoor ☐ Outdoor				75% Load		91.5 %	
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		0.630	
Duty Type		Continuous(S1)				75% Load		0.740	
Service Factor		1.15				100% Load		0.790	
Mounting		☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		1760 r.p.m			
Bearing		Type		Anti-Friction		Torque			
		DE/N-DE		6208ZZC3 / 6208ZZC3		Full Load		3.0 kg·m	
		Lubricant		Grease(Polyrex-EM)		Locked-rotor**		190 %	
External Thrust		Not applicable				Breakdown**		250 %	
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)					
Shaft Extension		☒ Single ☐ Double				Load(Max.)		5.500 kg·m²	
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor		0.024 kg·m²	
		Aux.		☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)			
		Location		Refer to Outline Drawing				69 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-T0131B5PL001		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	
				2018-04-25		R.G. KIM		-	
				CHKD		CHKD		APPD	
						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.									

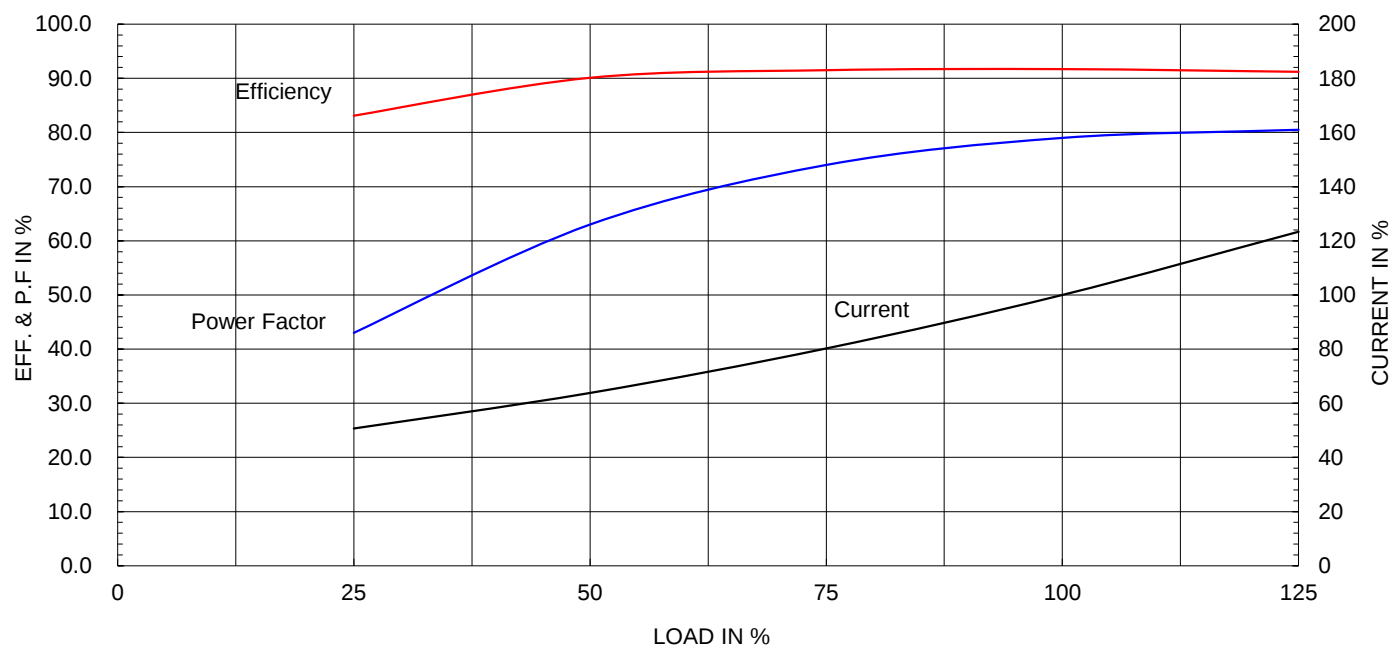
Type :	HKP-5.5/4	
Full Load Torque :	3.0	kg.m
Motor moment of Inertia (J) :	0.024	kg.m ²
Load moment of Inertia (J) :	5.500	kg.m ²

5.5 kW	4 P	60 Hz
Speed at Full Load : 1760 RPM		
Rated Voltage	440V	
Full Load Current	10.0A	

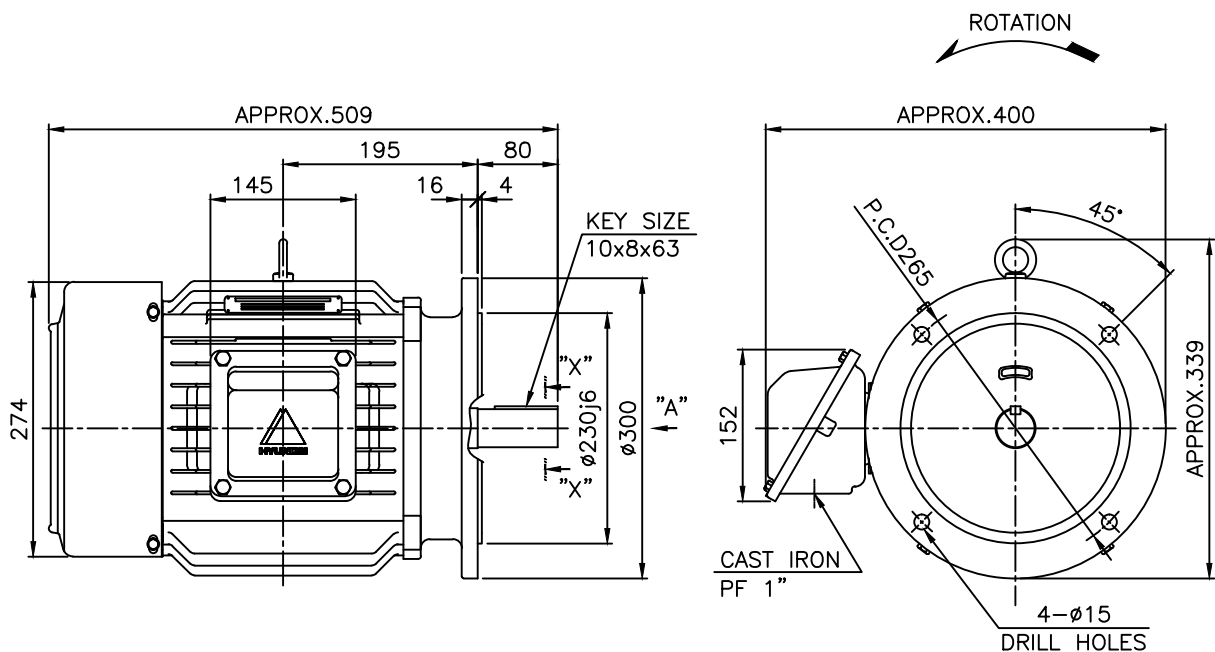
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



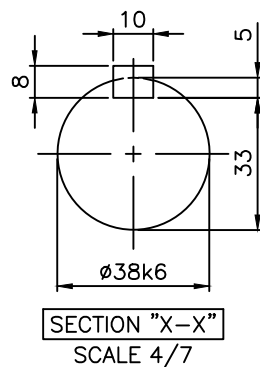
1			2		3		4		
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



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	1/7	TITLE		
CHKD BY	R.G.KIM	PROJEC'N	3각법(3rd Angle)	OUTLINE		
DSND BY	S.H.YUN	DATE	2018-09-19			
				REF. NO		Sheet No. of
				DWG NO	LM-T0131B5PL001	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