

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

SPECIFICATION for INDUCTION MOTOR



Contents

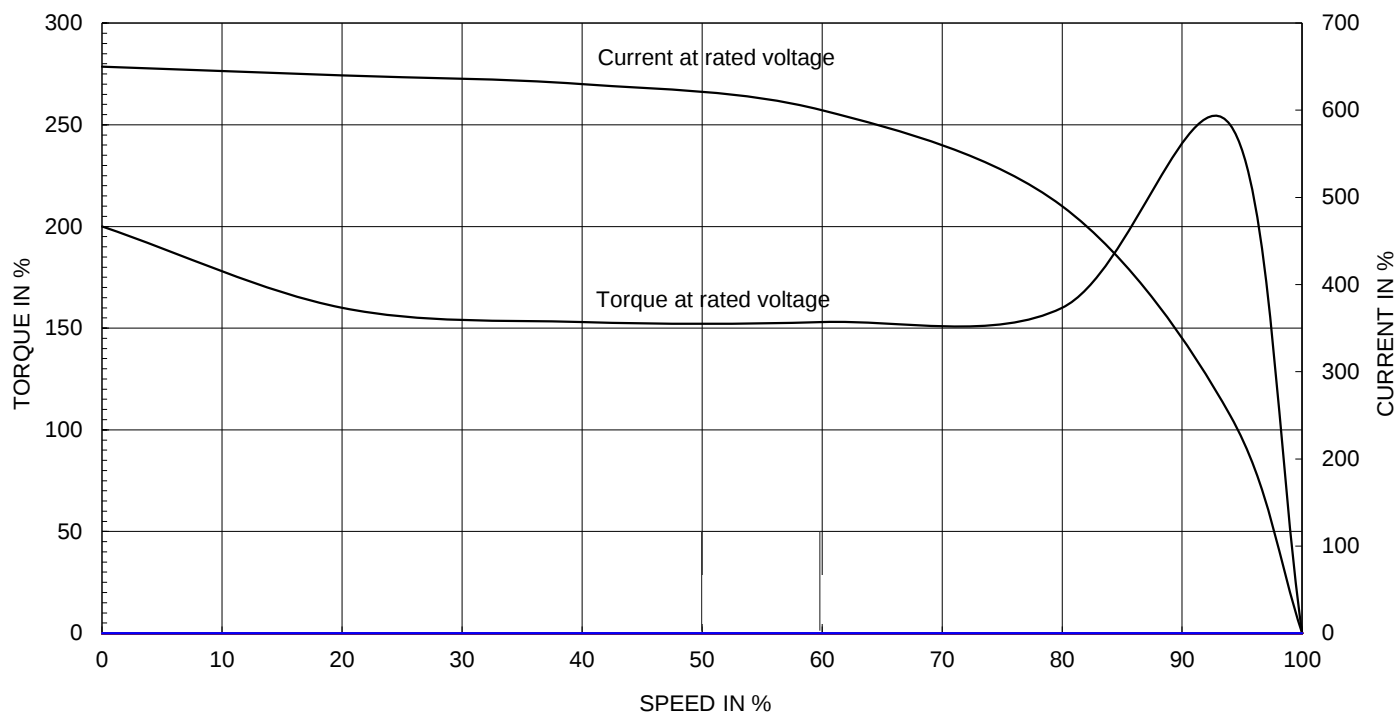
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2 . Speed-Torque & Current Curve	- 1Sheets
3 . Outline Dimension Drawing	- 1Sheets
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		AC INDUCTION MOTOR DATA SHEET											
Model No.or RFQ No.		3806KSTD40SSDS1STFE3V11DL0SDS		Item No.				Rev. No.		[]			
Project Name				Project No.				Quantity					
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		132S		Rated Output		5.5 kW		8 HP					
Type		HKP-5.5/2		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		10.9 A					
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		700 %					
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 deg. C				50% Load		86.6 %					
Motor Location		☒ Indoor ☐ Outdoor				75% Load		88.9 %					
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		0.780					
Duty Type		Continuous(S1)				75% Load		0.835					
Service Factor		1.15				100% Load		0.860					
Mounting		☐ B3 ☐ B5 ☒ V1 ☐ B3/B5				Speed at Full Load		3520 r.p.m					
Bearing		Type		Anti-Friction		Torque							
		DE/N-DE		6208ZZC3 / 6208ZZC3		Full Load		1.5 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.)		1.250 kg·m²					
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor		0.014 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.													

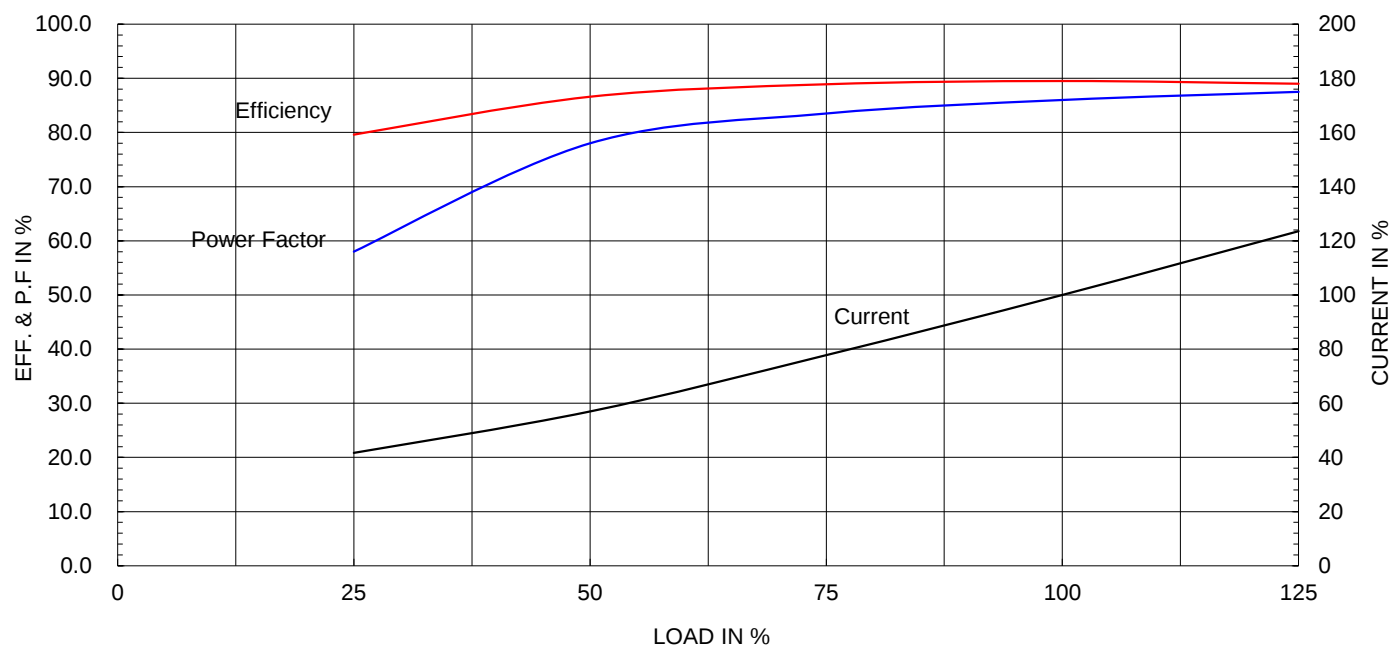
Type :	HKP-5.5/2	
Full Load Torque :	1.5	kg.m
Motor moment of Inertia (J) :	0.014	kg.m ²
Load moment of Inertia (J) :	1.250	kg.m ²

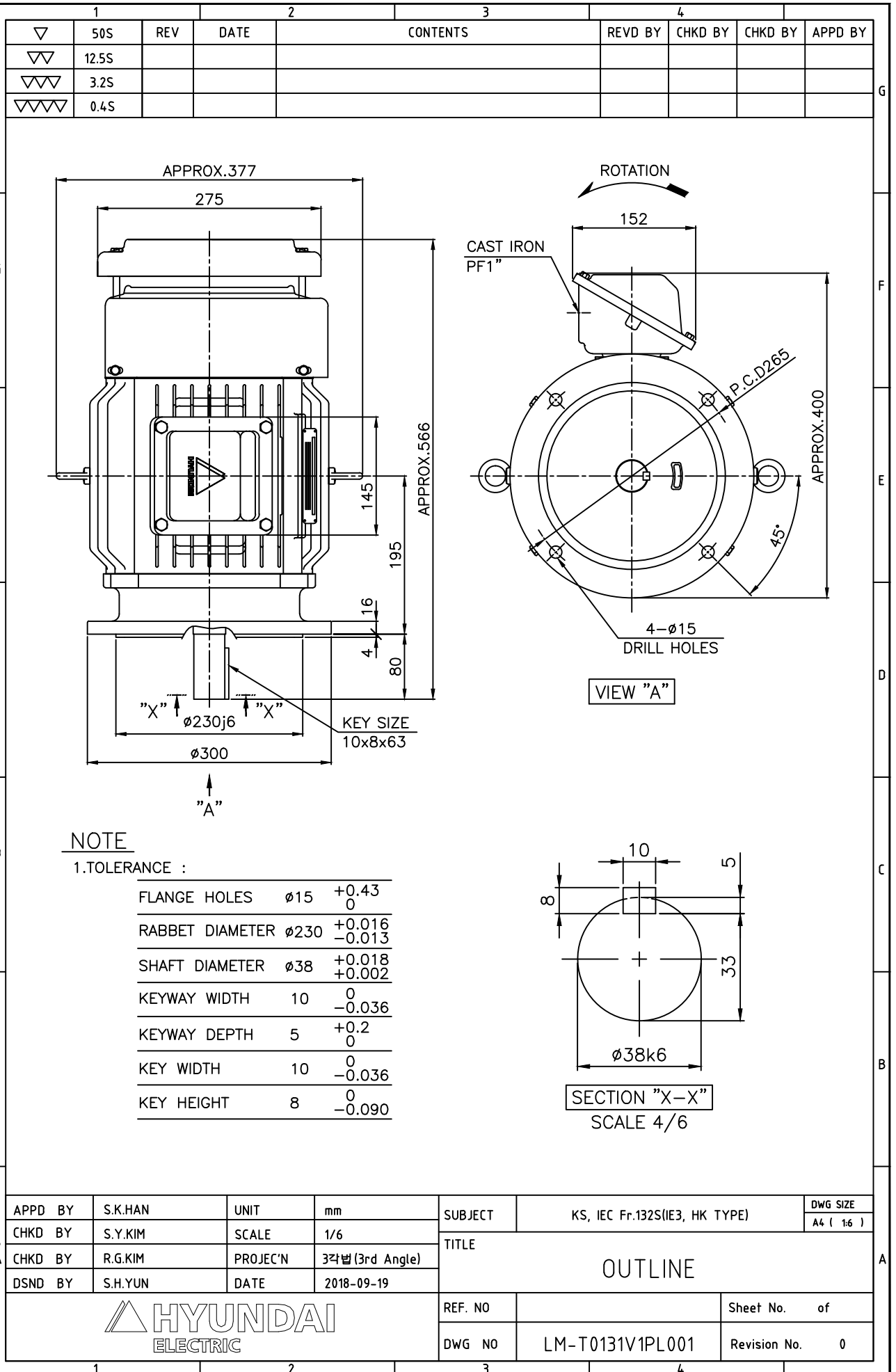
5.5 kW	2 P	60 Hz
Speed at Full Load : 3520 RPM		
Rated Voltage	380V	
Full Load Current	10.9A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.132S(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)	REF. NO		Sheet No.	of
DSND BY	S.H.YUN	DATE	2018-09-19	DWG NO	LM-T0131V1PL001	Revision No.	0

HYUNDAI ELECTRIC



▽	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