

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.		4606KSTD40SSDS1STFE3V11DL0SD		Item No.		Rev. No.		[]					
Project Name				Project No.		Quantity							
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		160M		Rated Output		11 kW		15 HP					
Type		HLP-11/4		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		460 V							
Number of Phases		3		Current		Full Load		18.4 A					
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		750 %					
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 deg. C				50% Load		91.4 %					
Motor Location		☒ Indoor ☐ Outdoor				75% Load		92.5 %					
Altitude		Less than 1000				100% Load		92.4 %					
Relative Humidity		Less than 80 %		Power Factor(p.u)									
Ambient Temp.		40 deg. C (Max.)				50% Load		0.642					
Duty Type		Continuous(S1)				75% Load		0.757					
Service Factor		1.15				100% Load		0.814					
Mounting		☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load		1775 r.p.m							
Bearing	Type	Anti-Friction		Torque									
	DE/N-DE	6309ZZC3 / 6309ZZC3				Full Load		6.0 kg·m					
	Lubricant	Grease(Polyrex-EM)				Locked-rotor**		200 %					
External Thrust		Not applicable				Breakdown**		240 %					
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)									
Shaft Extension		☒ Single ☐ Double				Load(Max.)		9.000 kg·m²					
Terminal Box	Main	☐ Steel ☒ Cast Iron				Motor		0.090 kg·m²					
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)									
	Location	Refer to Outline Drawing						74 dB(A)					
Application				Vibration		2.2 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-T1163V1PL001		124 kg					
				Main T-Box Ass'y		3M-145860							
				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

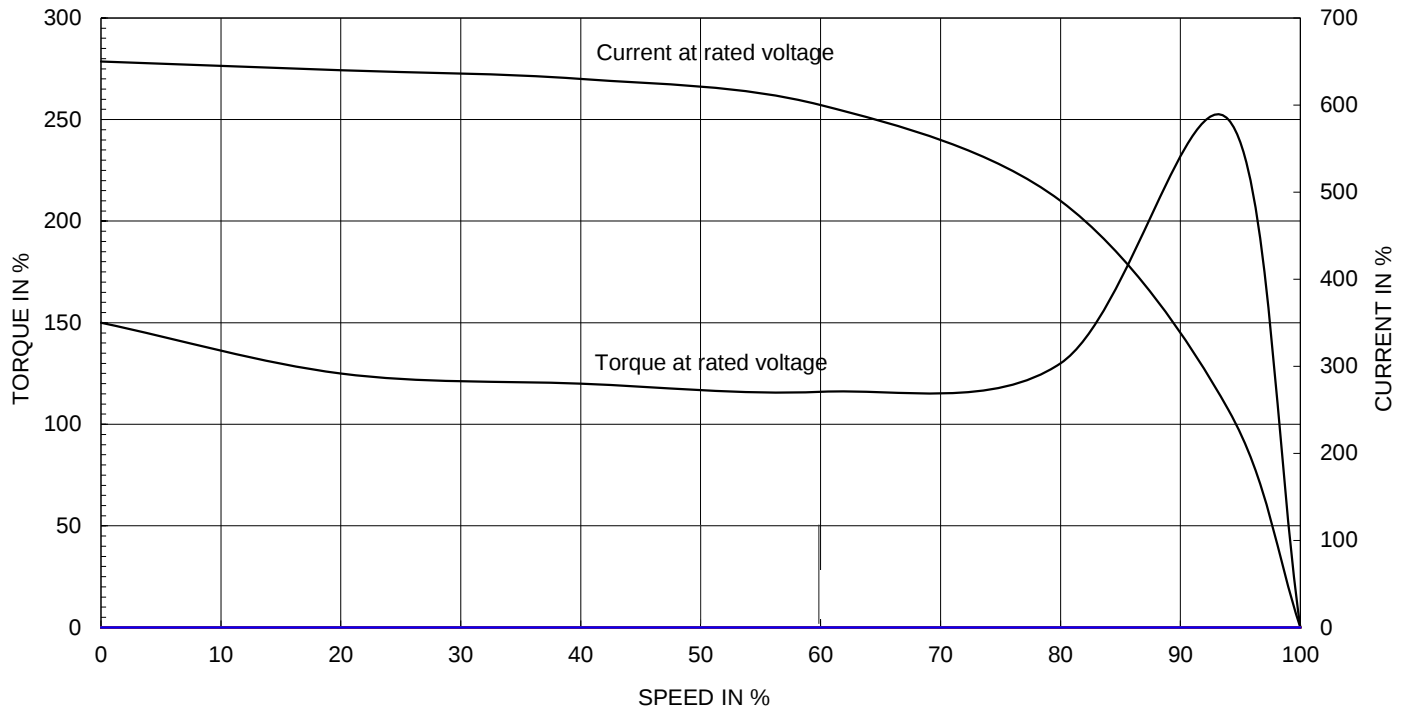
* In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests.

A4(210mm X 297mm)

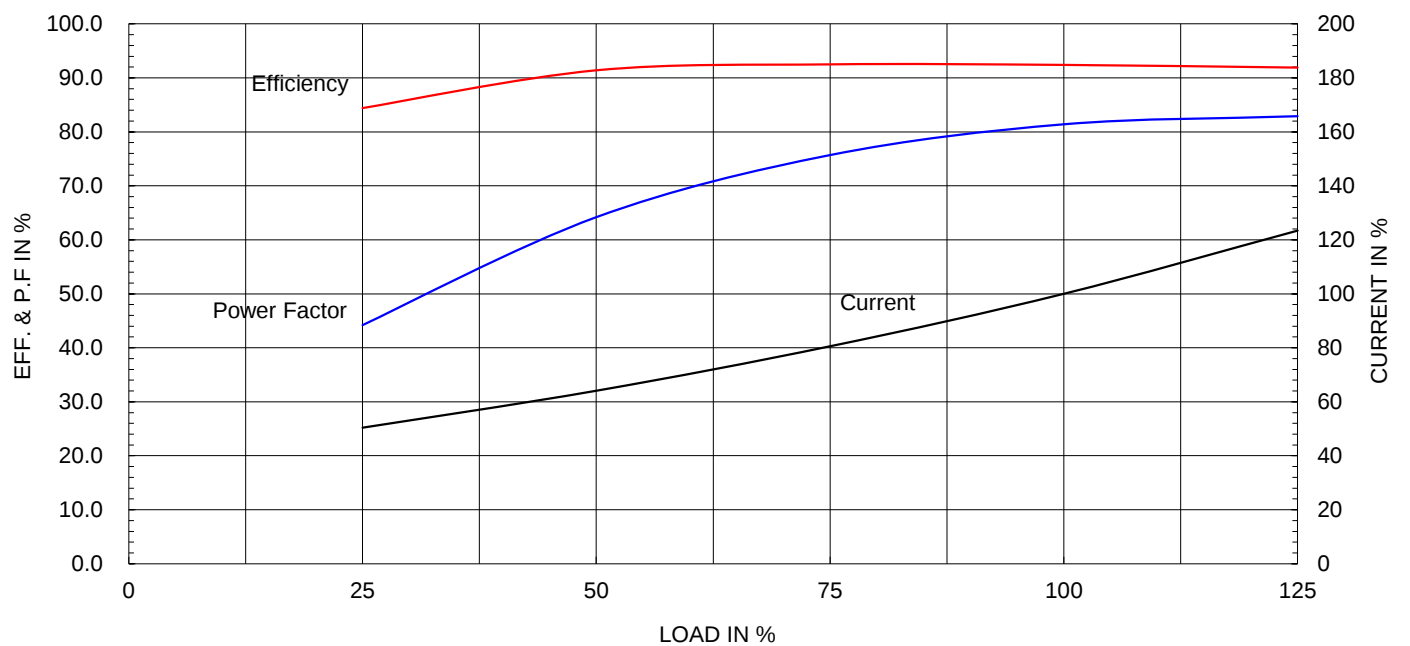
Type :	HLP-11/4	
Full Load Torque :	6.0	kg.m
Motor moment of Inertia (J) :	0.090	kg.m ²
Load moment of Inertia (J) :	9.000	kg.m ²

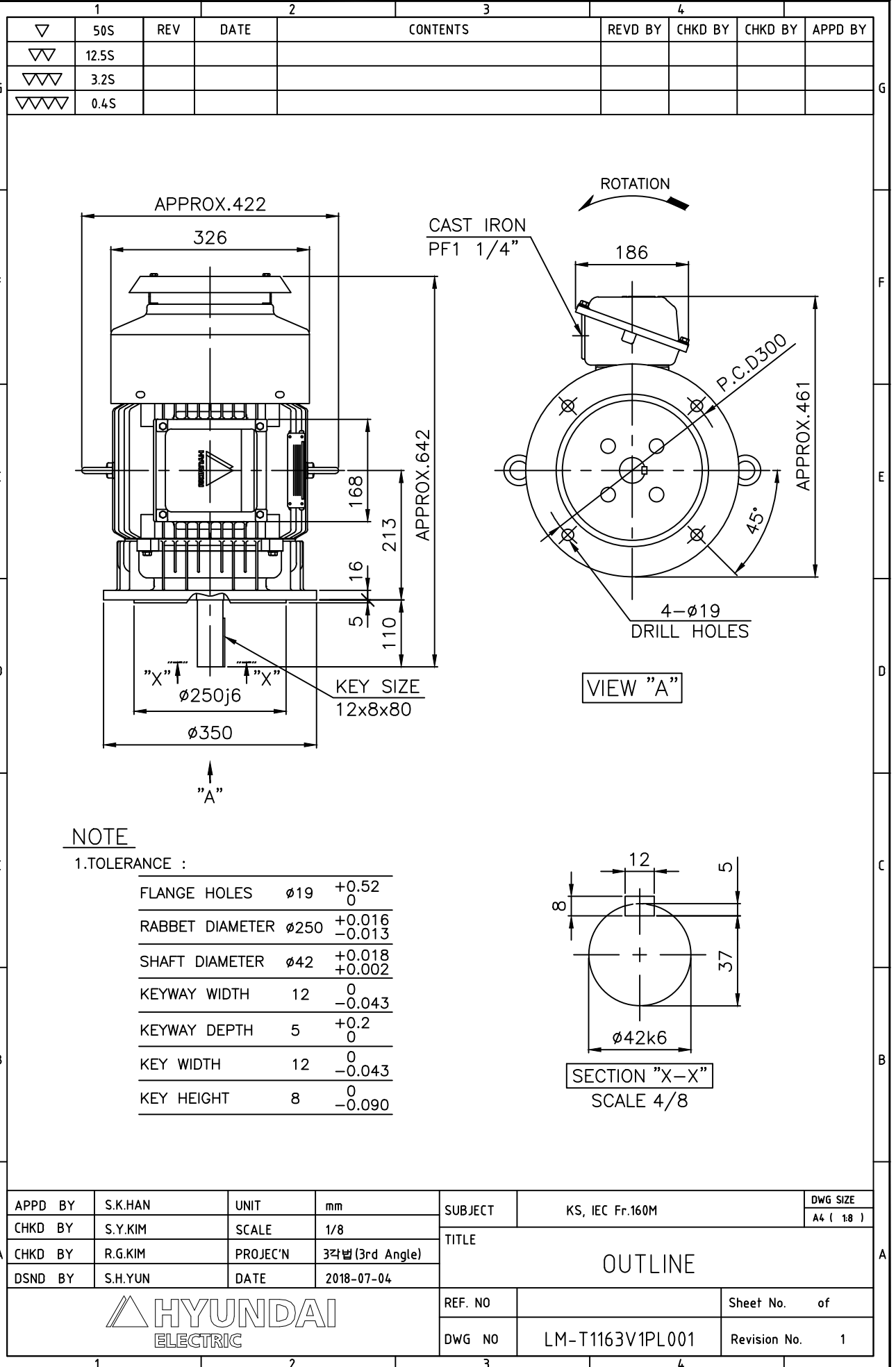
11 kW	4 P	60 Hz
Speed at Full Load : 1775 RPM		
Rated Voltage	460V	
Full Load Current	18.4A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.160M	DWG SIZE	A4 (1:8)
CHKD BY	S.Y.KIM	SCALE	1/8	TITLE	OUTLINE		
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	REF. NO		Sheet No.	of
DSND BY	S.H.YUN	DATE	2018-07-04	DWG NO	LM-T1163V1PL001	Revision No.	1

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HYUNDAI
ELECTRIC



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

일반가공공차				일반재관공차			
1-4	±0.1	6-30	±0.5	1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8	4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2	18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0	63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0	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.160~180 (CAST IRON)	DWG SIZE	
CHKD BY	S.Y.KIM		SCALE	1/2			A3 (1:2)	
CHKD BY	R.G.KIM		PROJEC'N	3각법 (3rd Angle)	TITLE Main Terminal Box Assembly			
DSND BY	H.K.LEE		DATE	2011-08-30				
					REF. NO	227B8008LA2	Sheet No.	of
					DWG NO	3M-145860	Revision No.	2
6		7		8		9		