

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.		3806KSTD40SSDS1STFE3B51DL0SD3		Item No.		Rev. No.		[]					
Project Name				Project No.		Quantity							
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		180M		Rated Output		18.5 kW		25 HP					
Type		HLP-18.5/4		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		380 V							
Number of Phases		3		Current		Full Load		36.6 A					
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		815 %					
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 deg. C				50% Load		92.6 %					
Motor Location		☒ Indoor ☐ Outdoor				75% Load		93.5 %					
Altitude		Less than 1000				100% Load		93.6 %					
Relative Humidity		Less than 80 %		Power Factor(p.u)									
Ambient Temp.		40 deg. C (Max.)				50% Load		0.730					
Duty Type		Continuous(S1)				75% Load		0.795					
Service Factor		1.15				100% Load		0.820					
Mounting		☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		1775 r.p.m							
Bearing	Type	Anti-Friction		Torque									
	DE/N-DE	6310ZZC3 / 6310ZZC3				Full Load		10.2 kg·m					
	Lubricant	Grease(Polyrex-EM)				Locked-rotor**		170 %					
External Thrust		Not applicable				Breakdown**		220 %					
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)									
Shaft Extension		☒ Single ☐ Double				Load(Max.)		13.800 kg·m²					
Terminal Box	Main	☐ Steel ☒ Cast Iron				Motor		0.166 kg·m²					
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)									
	Location	Refer to Outline Drawing						77 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.)					
				B5		LM-T1183B5PL001		184 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.

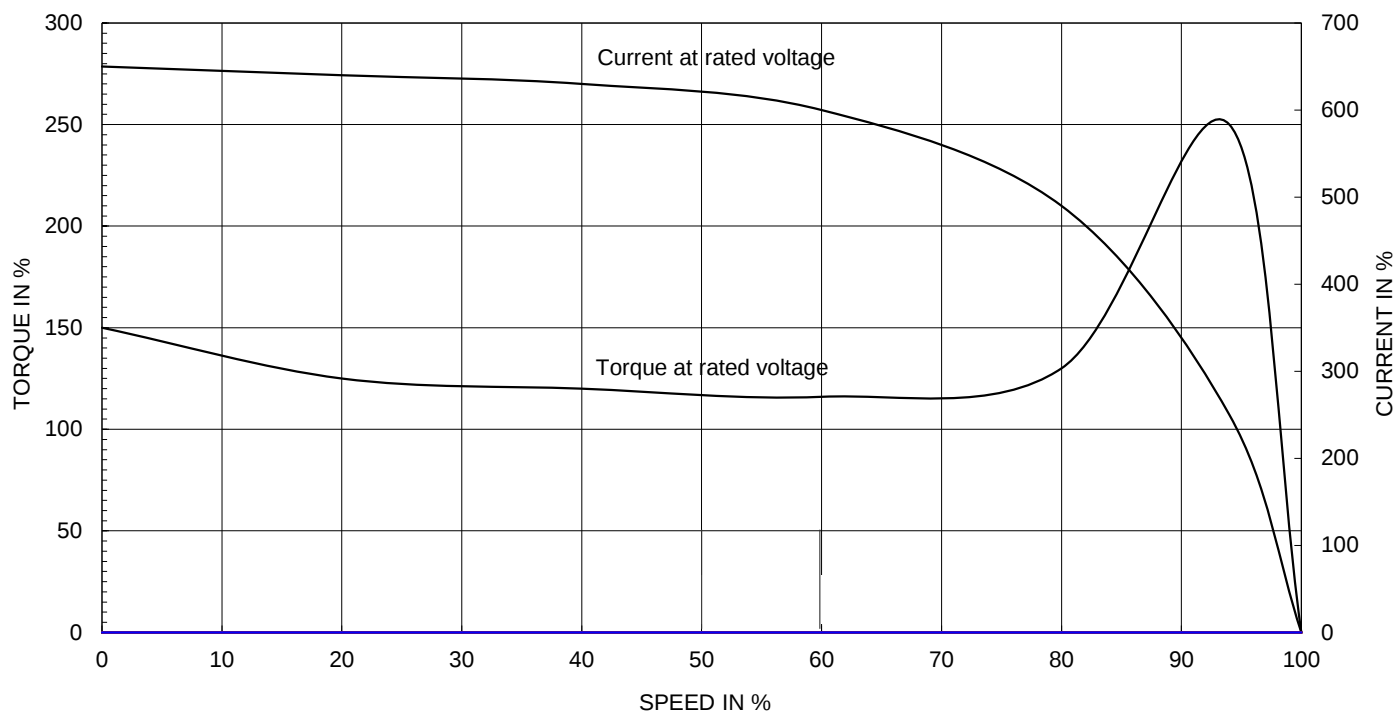
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

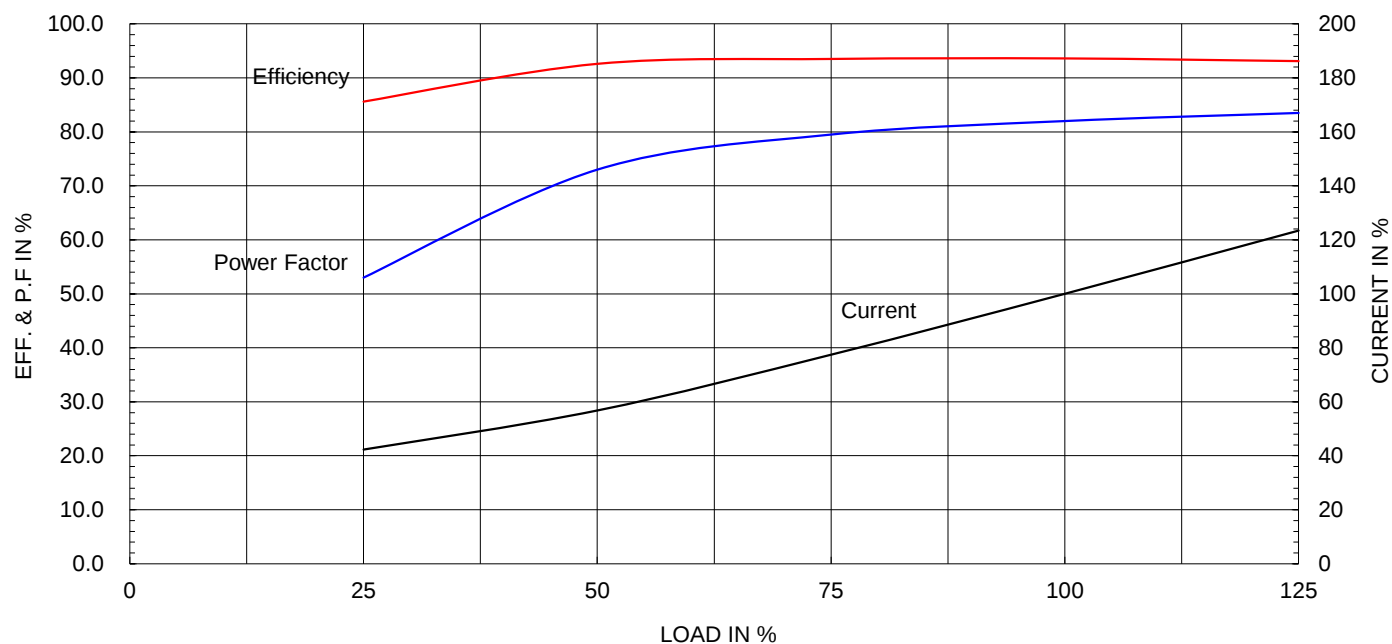
Type :	HLP-18.5/4	
Full Load Torque :	10.2	kg.m
Motor moment of Inertia (J) :	0.166	kg.m ²
Load moment of Inertia (J) :	13.800	kg.m ²

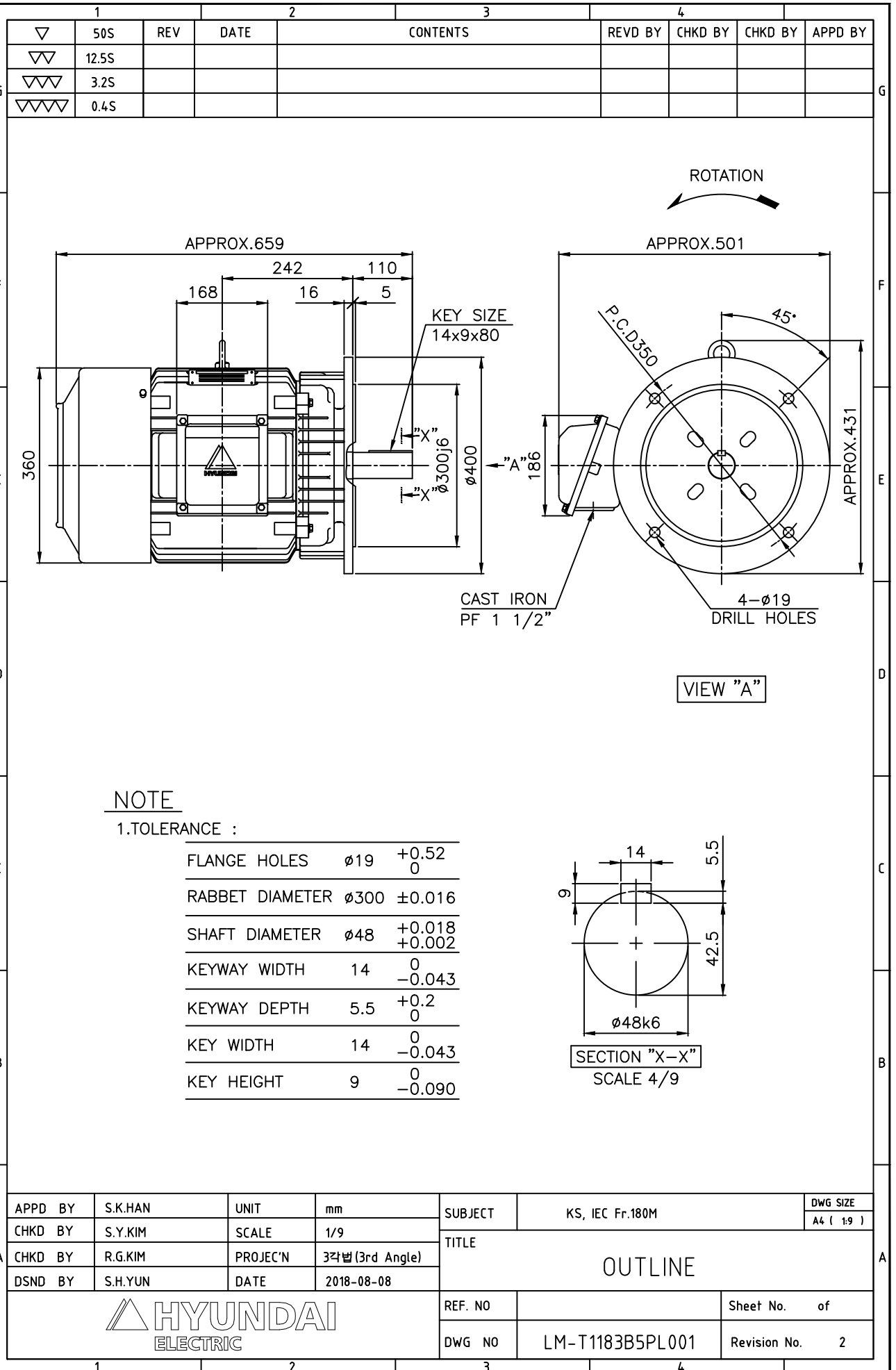
18.5 kW	4 P	60 Hz
Speed at Full Load : 1775 RPM		
Rated Voltage	380V	
Full Load Current	36.6A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





THIS DRAWING IS PROPRIETARY TO HYUNDAI ELECTRIC. NO PART OF THIS DRAWING
MAYBE REPRODUCED WITHOUT THE PERMISSION OF HYUNDAI ELECTRIC.

본 도면은 현대일렉트릭(주) 재산이므로
허가없이 복사할 수 없음 (취급주의)

HYUNDAI
ELECTRIC



SEC. "A" - "A"

▽	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	TITLE	Main Terminal Box Assembly			A3 (1:2)
CHKD	BY	R.G.KIM		PROJEC'N	3각법 (3rd Angle)					
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				