

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

SPECIFICATION for INDUCTION MOTOR



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		AC INDUCTION MOTOR DATA SHEET											
Model No.or RFQ No.		3806KSTD40SSDS1STFE3B31DL0SD3		Item No.			Rev. No.		[]				
Project Name				Project No.			Quantity						
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		180M		Rated Output		15 kW		20 HP					
Type		HLP-15/6		Number of Poles		6							
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		32.3 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		88.7 %					
Motor Location		☒ Indoor ☐ Outdoor				75% Load		91.7 %					
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		0.645					
Duty Type		Continuous(S1)				75% Load		0.730					
Service Factor		1.15				100% Load		0.770					
Mounting		☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		1175 r.p.m							
Bearing	Type	Anti-Friction		Torque									
	DE/N-DE	6310ZZC3 / 6310ZZC3				Full Load		12.4 kg·m					
	Lubricant	Grease(Polyrex-EM)				Locked-rotor**		150 %					
External Thrust		Not applicable				Breakdown**		230 %					
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)									
Shaft Extension		☒ Single ☐ Double				Load(Max.)		26.500 kg·m²					
Terminal Box	Main	☐ Steel ☒ Cast Iron				Motor		0.257 kg·m²					
	Aux.	☐ Yes ☒ No				Sound Pressure Level (No-load & mean value at 1m from motor)							
	Location	Refer to Outline Drawing				68 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.)					
				B3		LM-T1183B3PL001		172 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-15/6

Full Load Torque : 12.4 kg.m

Motor moment of Inertia (J) : 0.257 kg.m²

Load moment of Inertia (J) : 26.500 kg.m²

15 kW

6 P

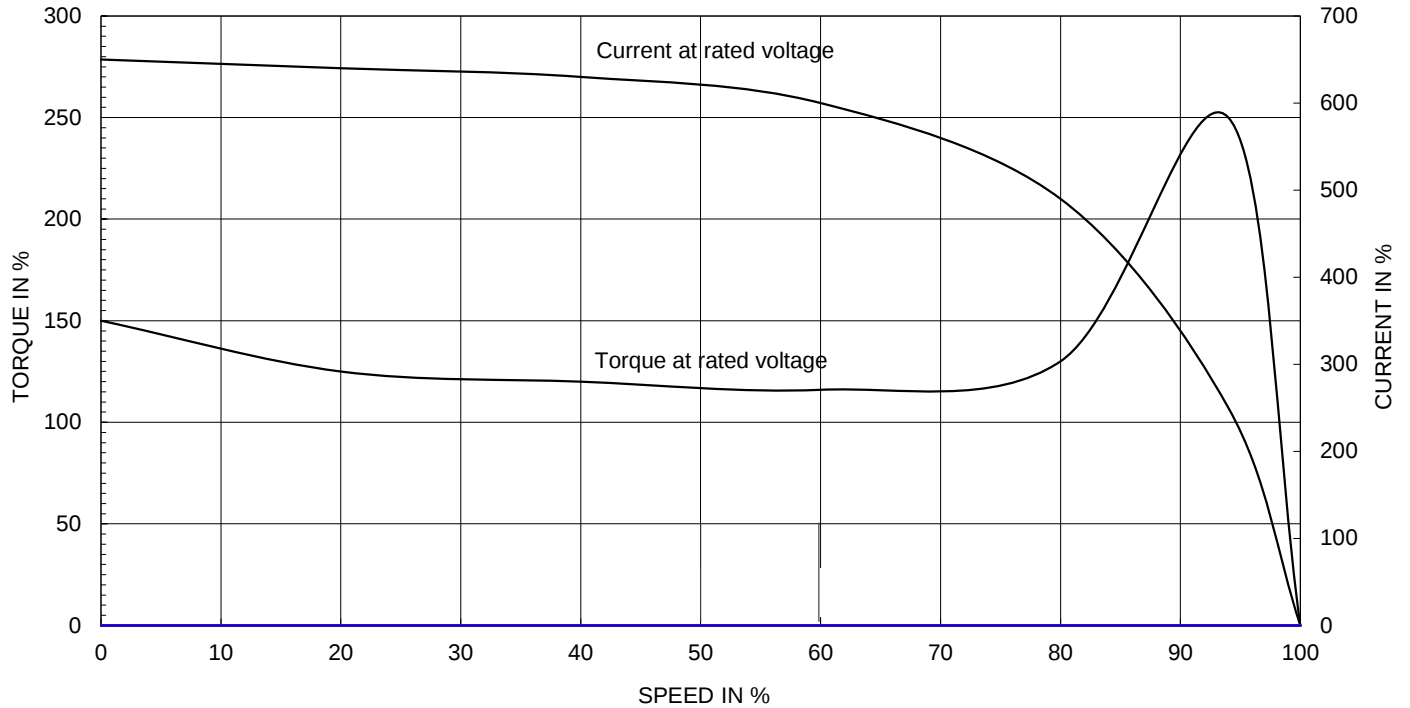
60 Hz

Speed at Full Load : 1175 RPM

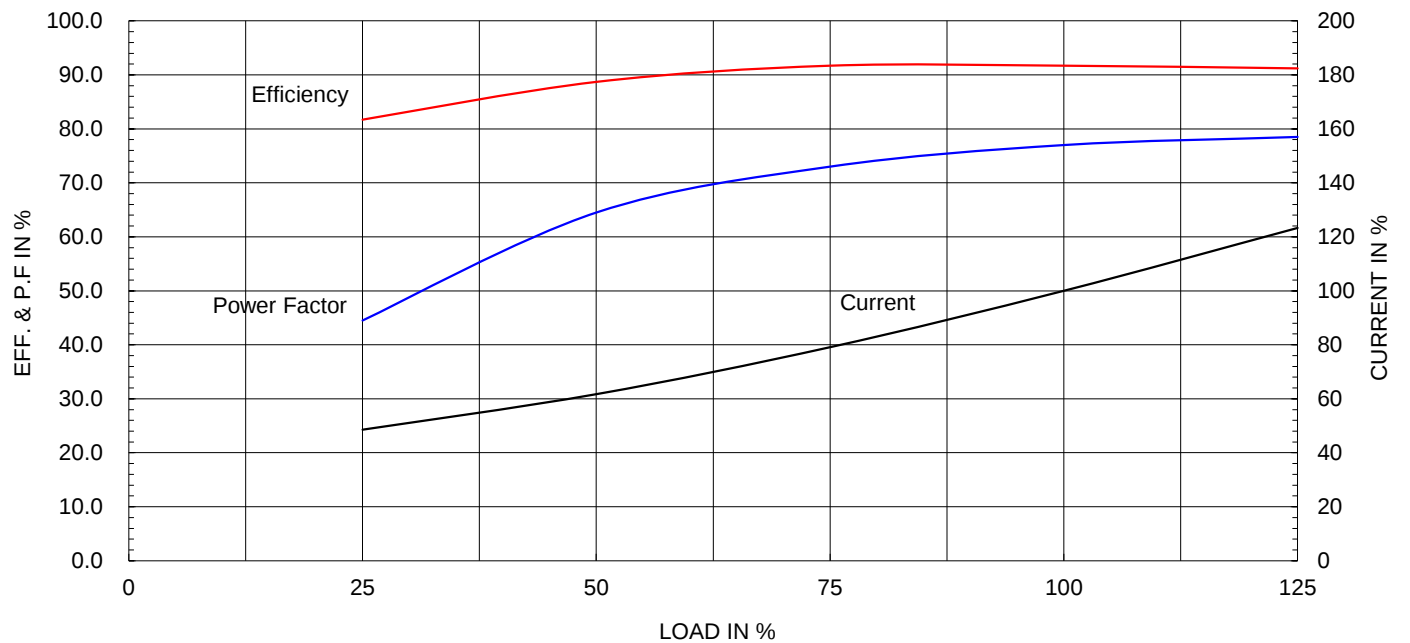
Rated Voltage 380V

Full Load Current 32.3A

SPEED VS TORQUE & CURRENT CURVE



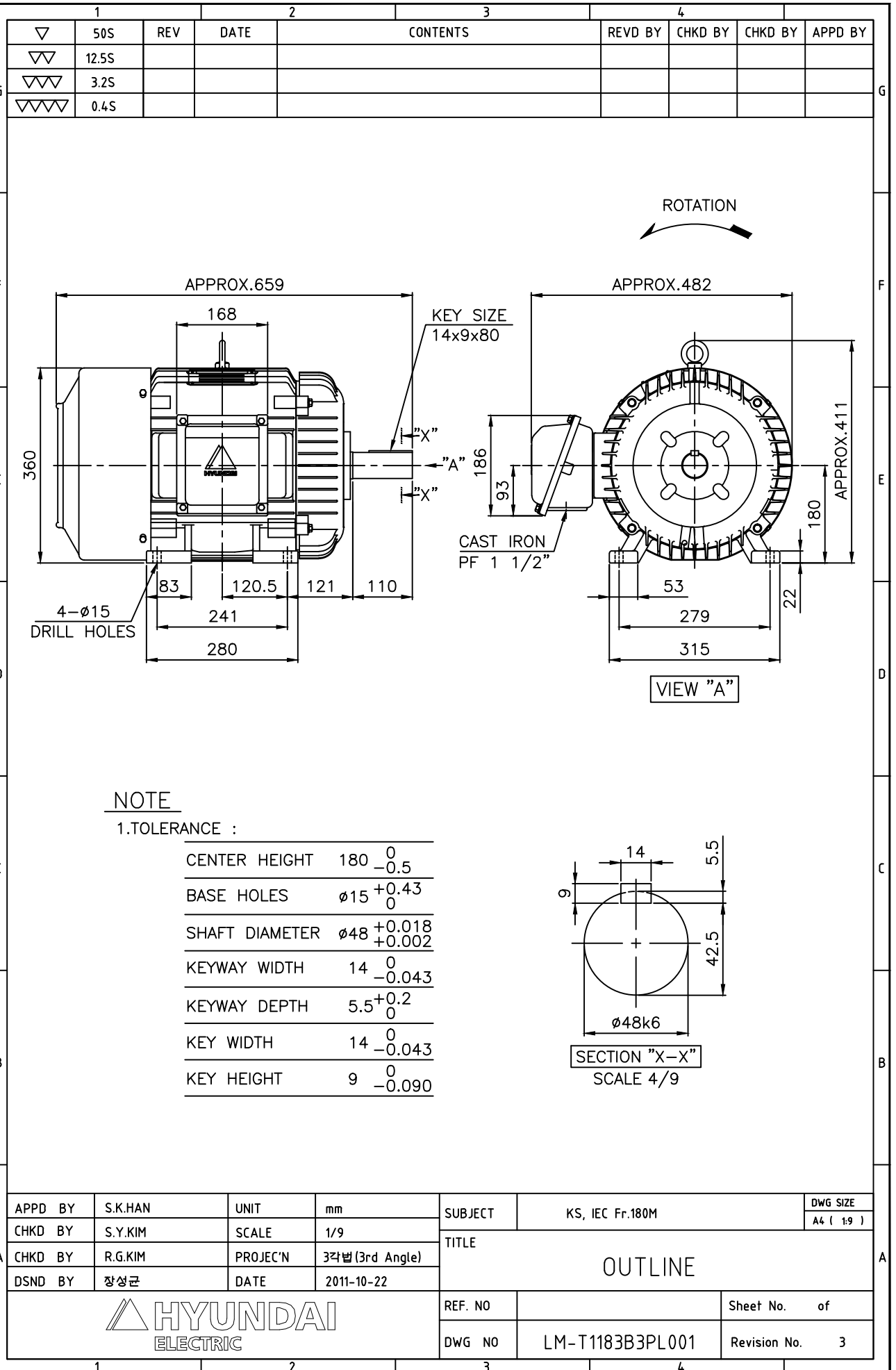
OUTPUT VS EFF., P.F & CURRENT CURVE



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SEC. "A" - "A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

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		