

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.		3806KSTD40SSDS1STFE3B31DL0SDS		Item No.		Rev. No.		[]					
Project Name				Project No.		Quantity							
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		90L		Rated Output		1.5 kW		2 HP					
Type		HLP-1.5/4		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		3.6 A					
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		900 %					
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 deg. C				50% Load		81.0 %					
Motor Location		☒ Indoor ☐ Outdoor				75% Load		85.1 %					
Altitude		Less than 1000				100% Load		86.5 %					
Relative Humidity		Less than 80 %		Power Factor(p.u)									
Ambient Temp.		40 deg. C (Max.)				50% Load		0.490					
Duty Type		Continuous(S1)				75% Load		0.630					
Service Factor		1.15				100% Load		0.733					
Mounting		☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		1735 r.p.m							
Bearing		Type		Anti-Friction		Torque							
		DE/N-DE		6205ZZ / 6204ZZ		Full Load		0.8 kg·m					
		Lubricant		Grease(HIFLEX L-3)		Locked-rotor**		350 %					
External Thrust		Not applicable				Breakdown**		360 %					
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)									
Shaft Extension		☒ Single ☐ Double				Load(Max.)		1.050 kg·m²					
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor		0.003 kg·m²					
		Aux.		☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)							
		Location		Refer to Outline Drawing				64 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.)					
				B3		LM-A1095B3P1001		18 kg					
				Main T-Box Ass'y		3M-148548							
				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.

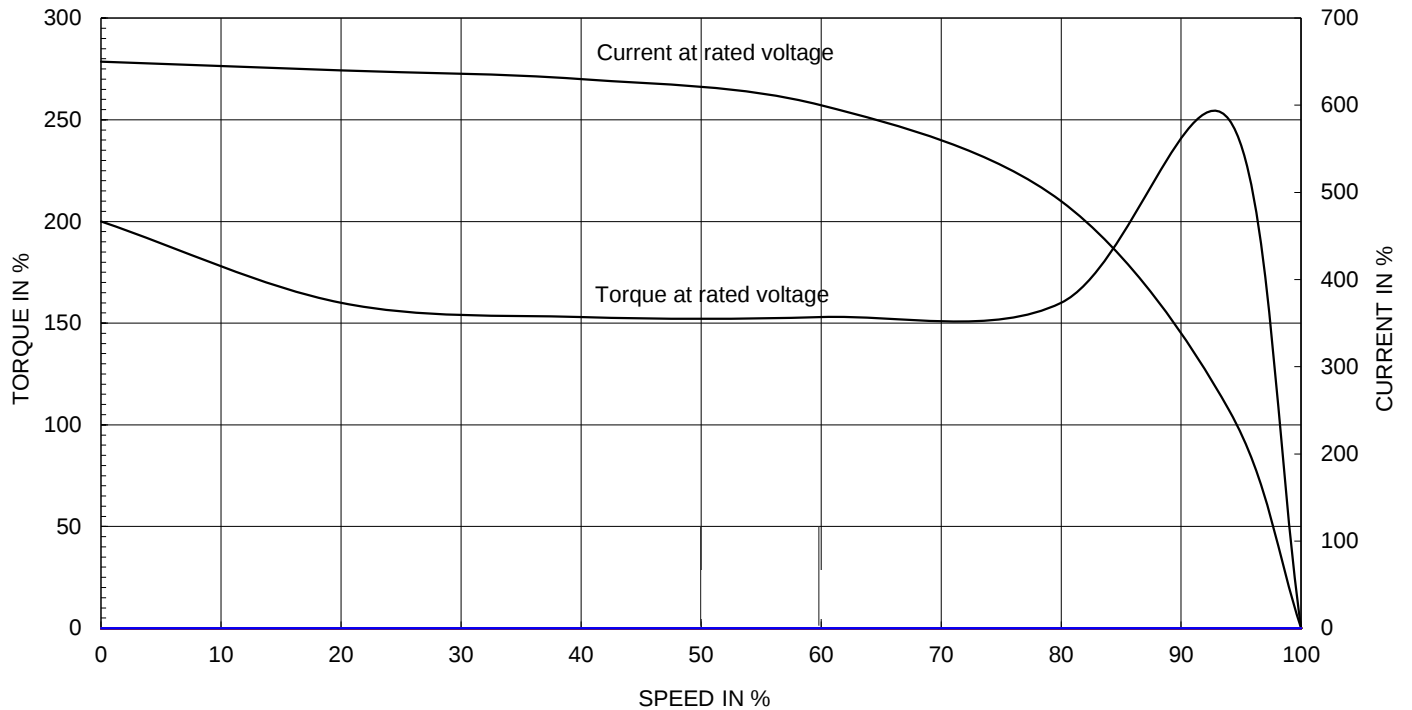
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

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

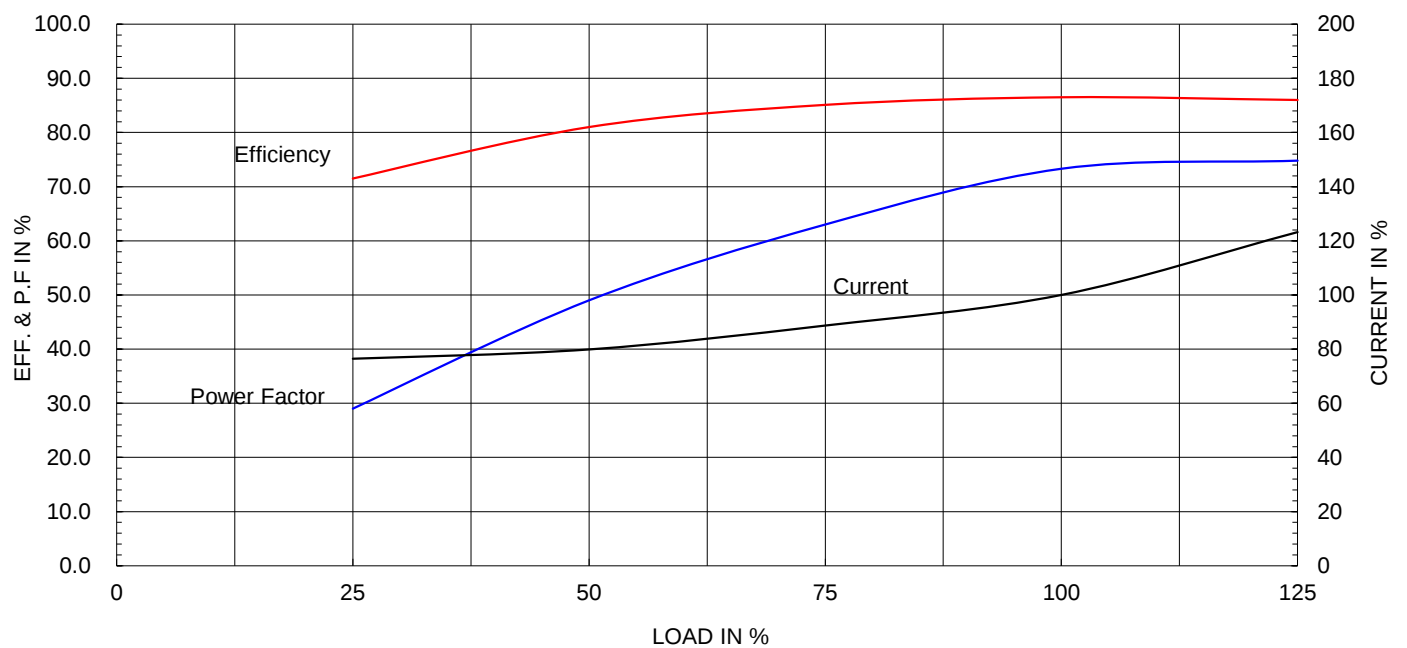
Type :	HLP-1.5/4	
Full Load Torque :	0.8	kg.m
Motor moment of Inertia (J) :	0.003	kg.m ²
Load moment of Inertia (J) :	1.050	kg.m ²

1.5 kW	4 P	60 Hz
Speed at Full Load : 1735 RPM		
Rated Voltage	380V	
Full Load Current	3.6A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

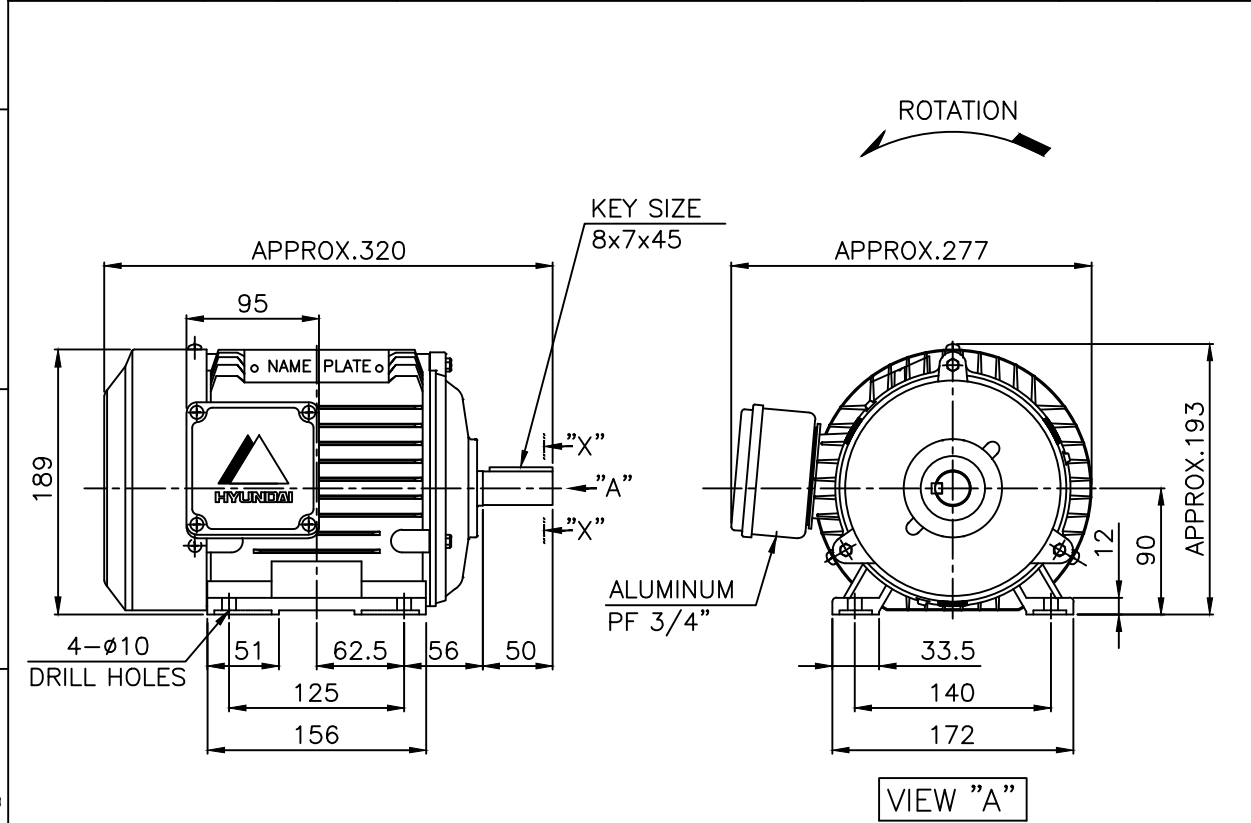


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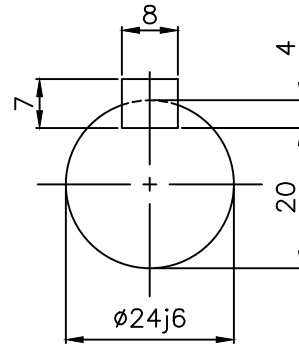
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



NOTE

1.TOLERANCE :

CENTER HEIGHT	90	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 10$	$\begin{matrix} +0.36 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 24$	$\begin{matrix} +0.009 \\ -0.004 \end{matrix}$
KEYWAY WIDTH	8	$\begin{matrix} 0 \\ -0.036 \end{matrix}$
KEYWAY DEPTH	4	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	8	$\begin{matrix} 0 \\ -0.036 \end{matrix}$
KEY HEIGHT	7	$\begin{matrix} 0 \\ -0.090 \end{matrix}$



SCALE 5/5

APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.90L	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/5	TITLE	OUTLINE	A4 (1:5)
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)			
DSND BY	S.H.YUN	DATE	2018-10-24			
				REF. NO		Sheet No. of
				DWG NO	LM-A1095B3P1001	Revision No. 0

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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	일반기공차	일반재관공차
							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.71~90 (AL)	DWG SIZE	
CHKD BY	S.Y.KIM	SCALE	1/1			A3 (1:1)	
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	TITLE	Terminal Box Arrangement		
DSND BY	이혜경 R	DATE	2011-10-26	REF. NO	227B1537AA	Sheet No.	of
				DWG NO	3M-148548	Revision No.	2

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