

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

SPECIFICATION for INDUCTION MOTOR



Contents

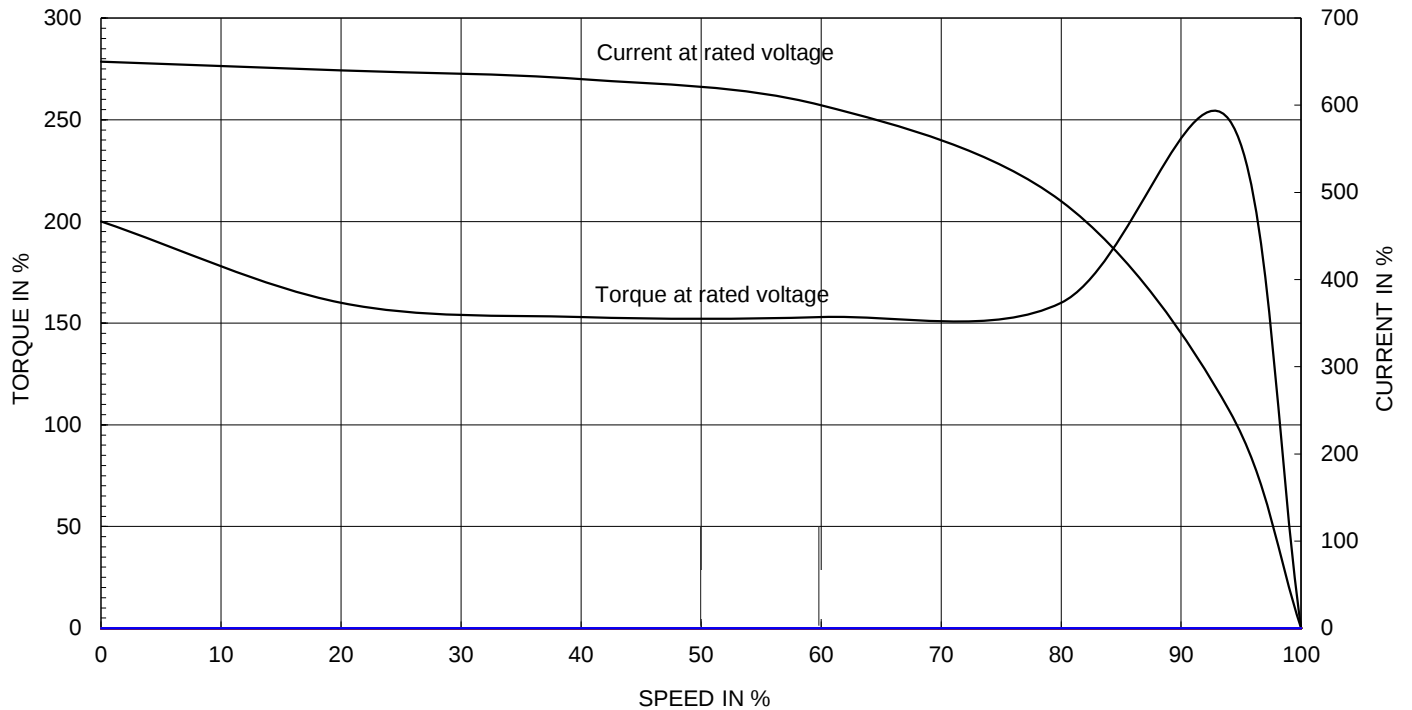
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2 . Speed-Torque & Current Curve	- 1Sheets
3 . Outline Dimension Drawing	- 1Sheets
4 . Main Terminal Box Drawing	- 1Sheets

		AC INDUCTION MOTOR DATA SHEET						
Model No.or RFQ No.		3806KSTD40SSDS1STFE3351DL0SDS		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-1.5/2		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 3.1 A		
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor**		950 %		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		80 deg. C		50% Load		82.0 %		
Motor Location		☒ Indoor ☐ Outdoor		75% Load		85.7 %		
Altitude		Less than 1000		100% Load		85.5 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)				
Ambient Temp.		40 deg. C (Max.)		50% Load		0.720		
Duty Type		Continuous(S1)		75% Load		0.810		
Service Factor		1.15		100% Load		0.852		
Mounting		☐ B3 ☐ B5 ☐ V1 ☒ B3/B5		Speed at Full Load		3500 r.p.m		
Bearing	Type	Anti-Friction		Torque				
	DE/N-DE	6205ZZ / 6204ZZ		Full Load		0.4 kg·m		
	Lubricant	Grease(HIFLEX L-3)		Locked-rotor**		190 %		
External Thrust		Not applicable		Breakdown**		250 %		
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension		☒ Single ☐ Double		Load(Max.)		0.250 kg·m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor		0.002 kg·m ²		
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing				73 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/B5		LM-A1095B4P1001	21 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.								
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)								

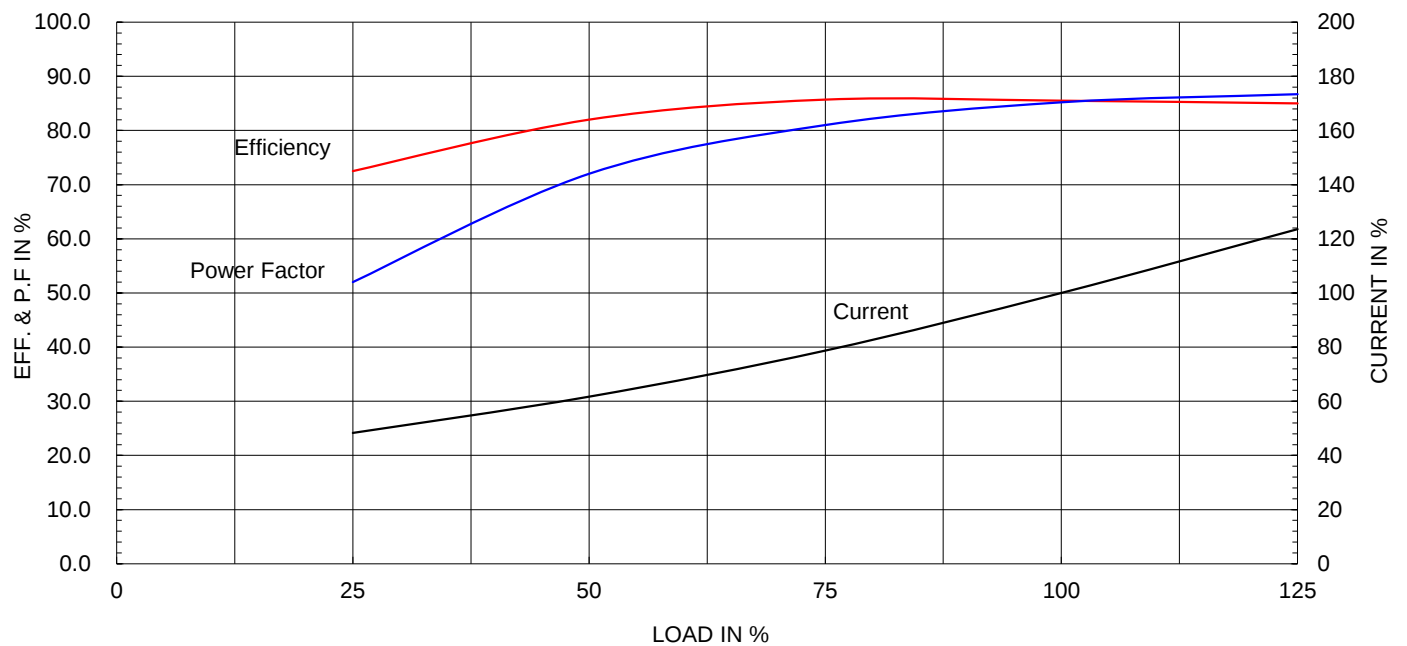
Type :	HLP-1.5/2	
Full Load Torque :	0.4	kg.m
Motor moment of Inertia (J) :	0.002	kg.m ²
Load moment of Inertia (J) :	0.250	kg.m ²

1.5 kW	2 P	60 Hz
Speed at Full Load : 3500 RPM		
Rated Voltage	380V	
Full Load Current	3.1A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

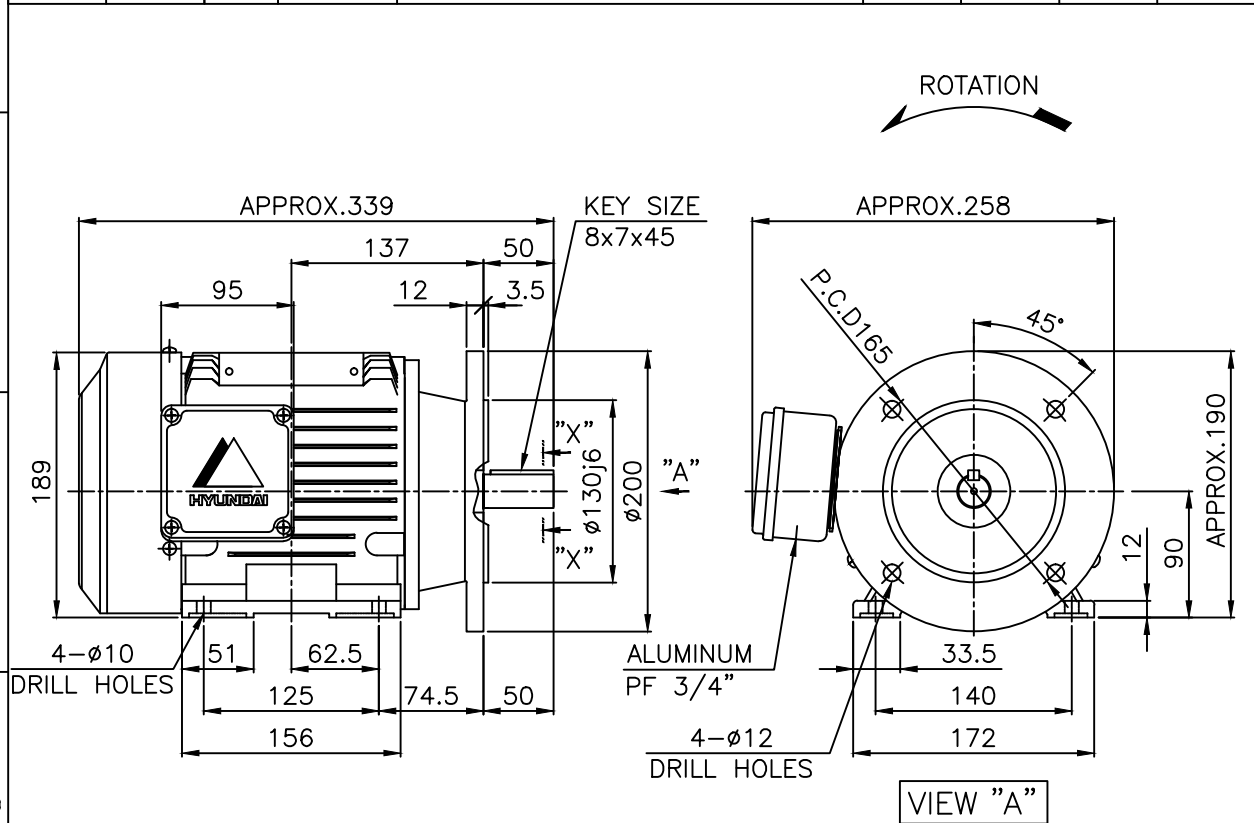


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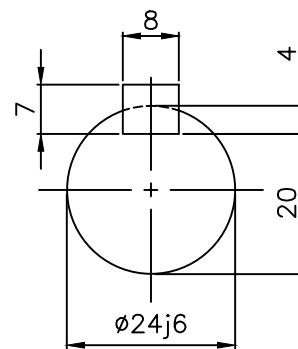
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



NOTE

1.TOLERANCE :

CENTER HEIGHT	90	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 10$	$\begin{matrix} +0.36 \\ 0 \end{matrix}$
FLANGE HOLES	$\phi 12$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
RABBET DIAMETER	$\phi 130$	$\begin{matrix} +0.014 \\ -0.011 \end{matrix}$
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

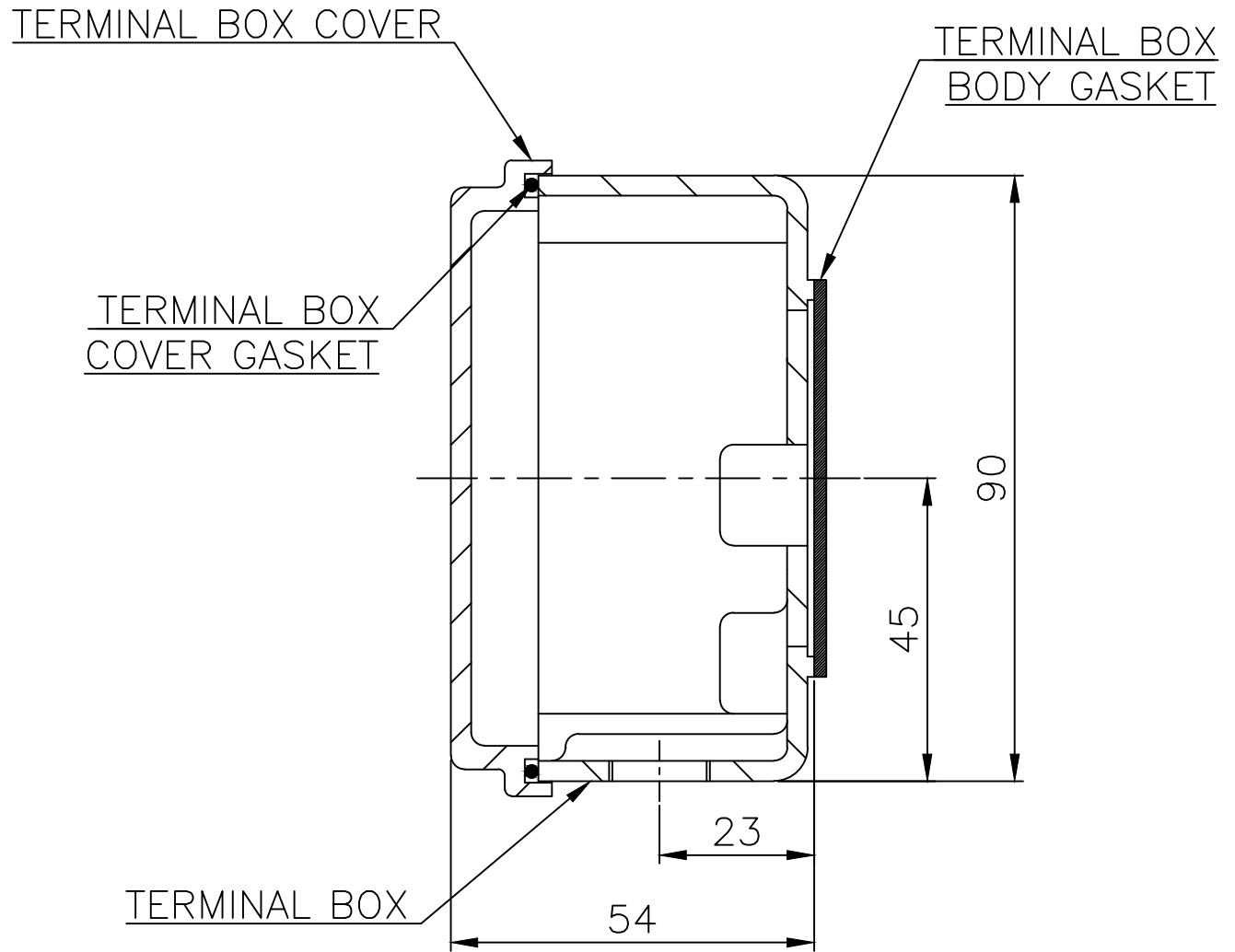
APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.90L	DWG SIZE	A4 (15)
CHKD BY	S.Y.KIM	SCALE	1/5	TITLE	OUTLINE		
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)				
DSND BY	S.H.YUN	DATE	2018-08-13				
				REF. NO		Sheet No.	of
				DWG NO	LM-A1095B4P1001	Revision No.	1

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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	일반가공공차				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			TITLE Terminal Box Arrangement		A3 (1:1)
CHKD BY	R.G.KIM		PROJEC'N	3각법 (3rd Angle)					
DSND BY	이혜경 R		DATE	2011-10-26					
						REF. NO	227B1537AA		Sheet No. of
						DWG NO	3M-148548		Revision No. 2
6			7			8		9	