

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.		4406KSTD40SSDS1STFE3B31DL0SDS		Item No.		Rev. No.	[]						
Project Name				Project No.		Quantity							
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		132M		Rated Output		5.5 kW 8 HP							
Type		HKP-5.5/6		Number of Poles		6							
Enclosure(Protection)		Totally Enclosed (IP55)		Rotor Type		Squirrel Cage							
Method of Cooling		IC411(FC)		Starting Method*		<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-Δ							
Rated Frequency		60 Hz		Rated Voltage		440 V							
Number of Phases		3		Current		Full Load							
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H				Locked-rotor**		750 %					
Temp. Rise at full load (by resistance method) at 1.0 S.F		80 deg. C		Efficiency									
				50% Load		91.0 %							
Motor Location		<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load		91.6 %							
Altitude		Less than 1000		100% Load		91.0 %							
Relative Humidity		Less than 80 %		Power Factor(p.u)									
Ambient Temp.		40 deg. C (Max.)		50% Load		0.573							
Duty Type		Continuous(S1)		75% Load		0.681							
Service Factor		1.15		100% Load		0.731							
Mounting		<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load		1175 r.p.m							
Bearing	Type	Anti-Friction		Torque									
	DE/N-DE	6308ZZC3 / 6308ZZC3		Full Load		4.6 kg·m							
	Lubricant	Grease(Polyrex-EM)		Locked-rotor**		170 %							
External Thrust		Not applicable		Breakdown**		250 %							
Coupling Method		<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)									
Shaft Extension		<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.)		13.000 kg·m ²							
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor		0.052 kg·m ²							
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sound Pressure Level (No-load & mean value at 1m from motor)									
	Location	Refer to Outline Drawing		62 dB(A)									
Application				Vibration									
Area classification		Not applicable		1.6 mm/sec (r.m.s)									
Type of Ex-Protection		Non-Hazardous		Permissible number of consecutive starts		Cold 3 times							
Applicable Standard		KS, IEC, NEMA MG1 Part30(Vpeak)		Hot		2 times							
				Paint	Munsell No.	4.4PB5.5/5.6(VL-451)							
ACCESSORIES				SUBMITTAL DRAWING									
				Outline Dimension Drawing		Motor Weight(Approx.)							
				B3		LM-T0133B3PL001	75 kg						
				Main T-Box Ass'y				3M-148549					
				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.

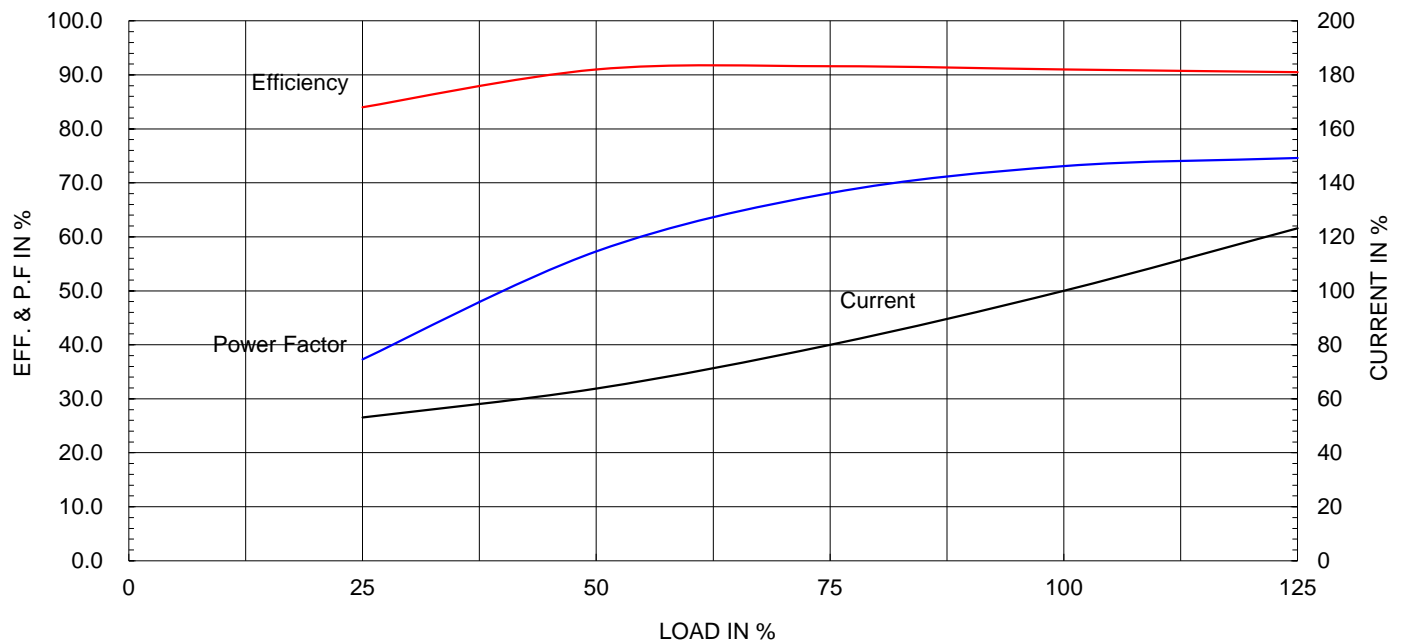
Type :	HKP-5.5/6	
Full Load Torque :	4.6	kg.m
Motor moment of Inertia (J) :	0.052	kg.m ²
Load moment of Inertia (J) :	13.000	kg.m ²

5.5 kW	6 P	60 Hz
Speed at Full Load :		1175 RPM
Rated Voltage	440V	
Full Load Current	10.8A	

SPEED VS TORQUE & CURRENT CURVE



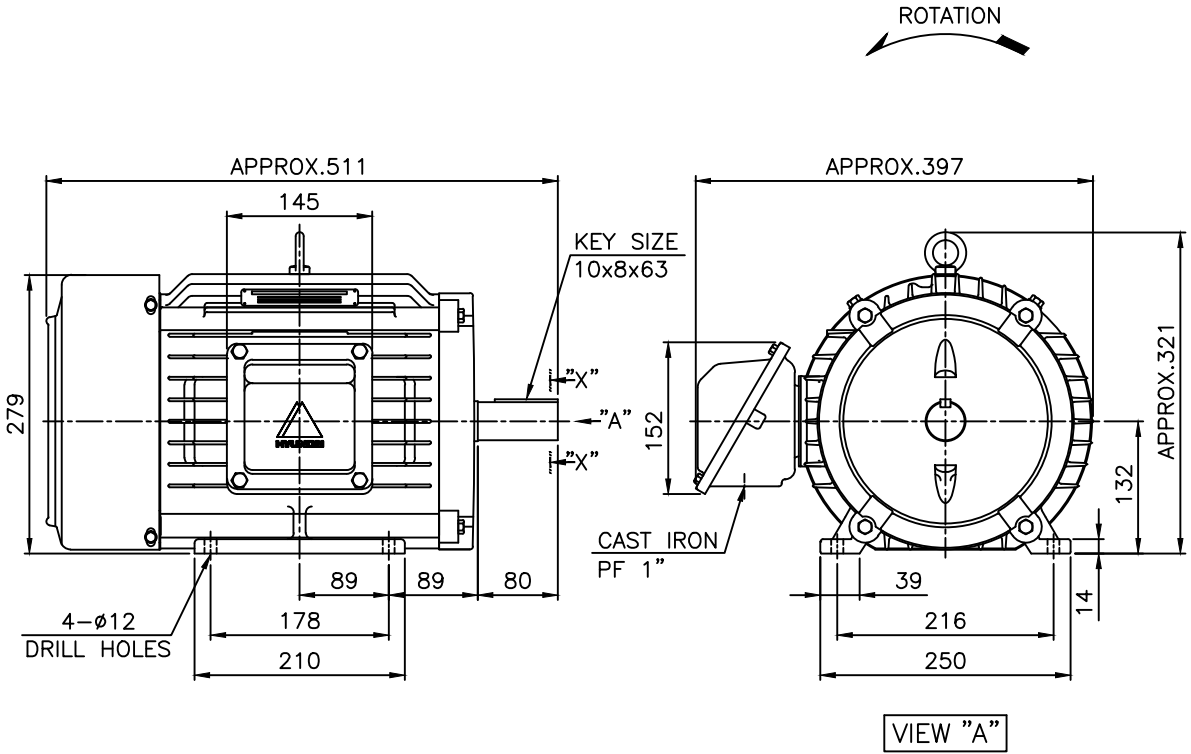
OUTPUT VS EFF., P.F & CURRENT CURVE



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

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

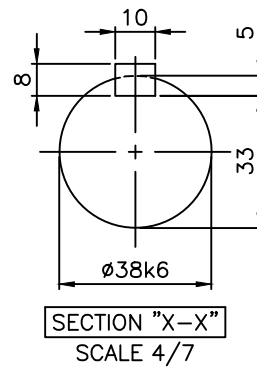
	1	2	3	4				
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



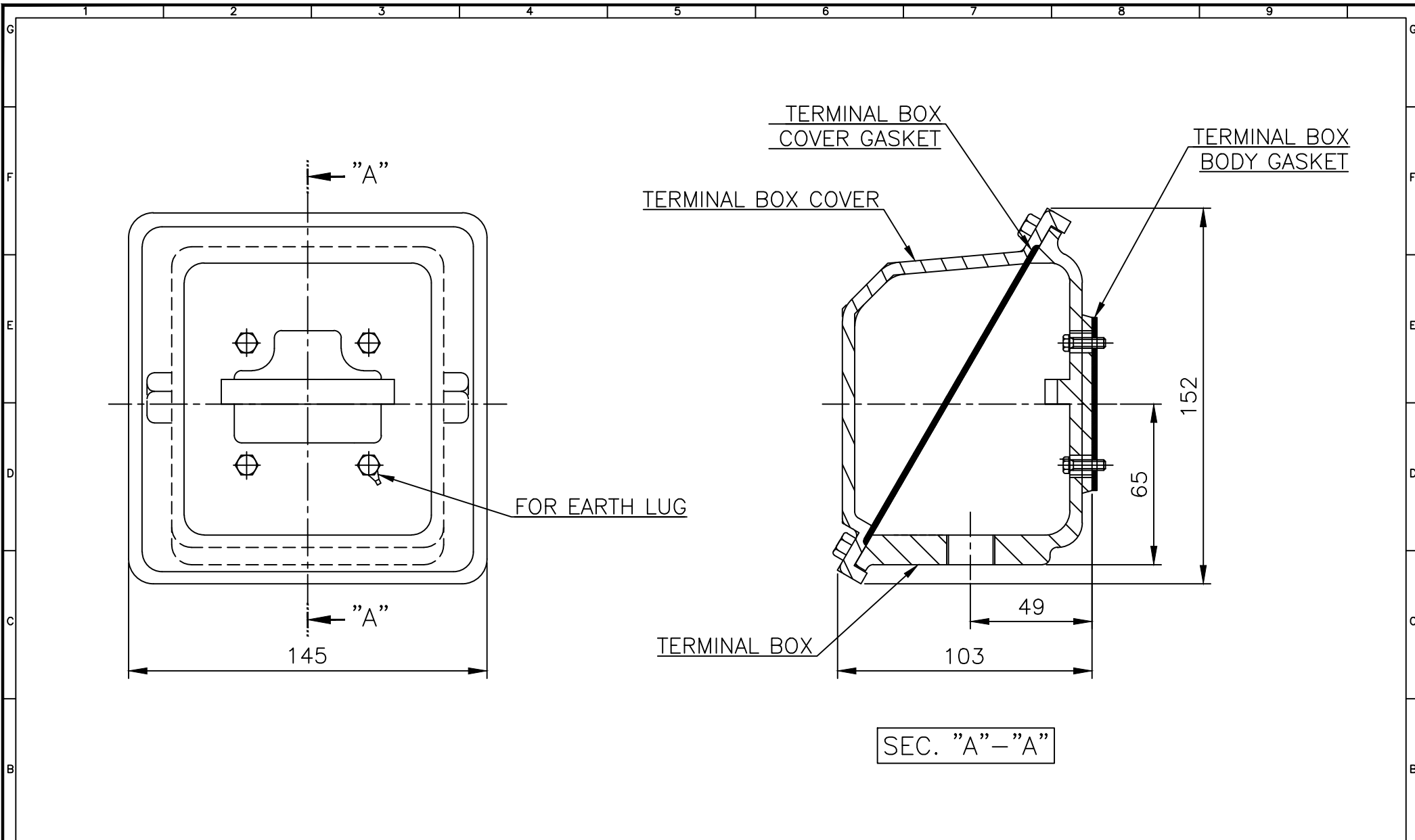
NOTE

1.TOLERANCE :

CENTER HEIGHT	132	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 12$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 38$	$\begin{matrix} +0.018 \\ +0.002 \end{matrix}$
KEYWAY WIDTH	10	$\begin{matrix} 0 \\ -0.036 \end{matrix}$
KEYWAY DEPTH	5	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	10	$\begin{matrix} 0 \\ -0.036 \end{matrix}$
KEY HEIGHT	8	$\begin{matrix} 0 \\ -0.090 \end{matrix}$



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.132M(IE3, HK TYPE)	DWG SIZE	A4 (1:7)
CHKD BY	S.Y.KIM	SCALE	1/7	TITLE OUTLINE			
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)				
DSND BY	S.H.YUN	DATE	2018-09-18				
				REF. NO	Sheet No. of		
				DWG NO	LM-T0133B3PL001	Revision No.	0



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.K.HAN	UNIT	mm	SUBJECT	FR.100~132 (CAST IRON)	DWG SIZE	A3 (1:2)
CHKD BY	S.Y.KIM	SCALE	1/2	TITLE			
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	Terminal Box Arrangement			
DSND BY	H.K.LEE	DATE	2011-10-26	REF. NO	227B8004CB	Sheet No.	of
				DWG NO	3M-148549	Revision No.	2

일반가공공차		일반재공공차	
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