

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

SPECIFICATION for INDUCTION MOTOR



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AC INDUCTION MOTOR DATA SHEET

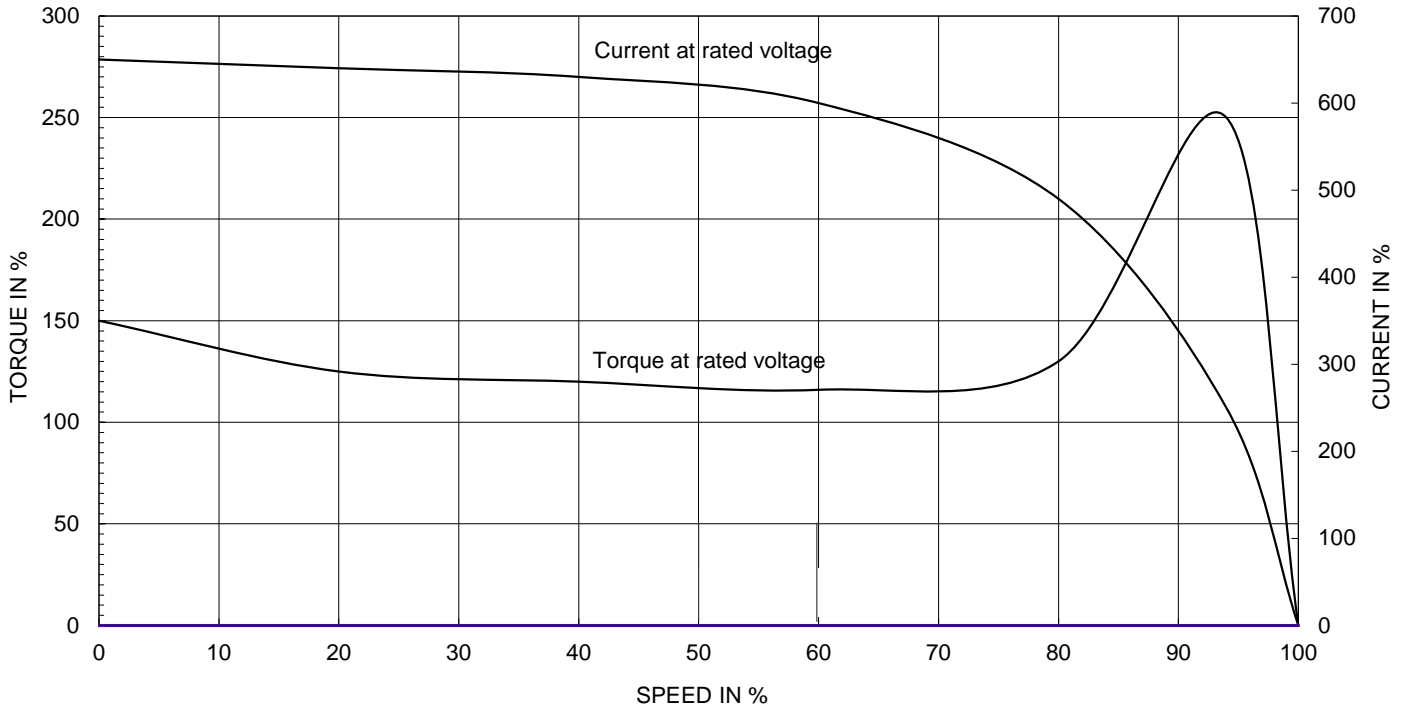
Model No.or RFQ No.	2206KSTD40SSDS1STFE3B51DL0SDS	Item No.		Rev. No.	[]					
Project Name		Project No.		Quantity						
GENERAL SPECIFICATION			PERFORMANCE DATA							
Frame Size	132M	Rated Output	5.5 kW	8 HP						
Type	HKP-5.5/6	Number of Poles	6							
Enclosure(Protection)	Totally Enclosed (IP55)	Rotor 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	220 V							
Number of Phases	3	Current	Full Load	21.7 A						
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)		Efficiency								
at 1.0 S.F	80 deg. C									
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	50% Load		91.0 %						
Altitude	Less than 1000	75% Load		91.6 %						
Relative Humidity	Less than 80 %	100% Load		91.0 %						
Ambient Temp.	40 deg. C (Max.)	Power Factor(p.u)								
Duty Type	Continuous(S1)									
Service Factor	1.15									
Mounting	<input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load		1175 r.p.m						
Bearing	Type	Anti-Friction								
	DE/N-DE	6308ZZC3 / 6308ZZC3								
	Lubricant	Grease(Polyrex-EM)								
External Thrust	Not applicable									
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									
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Load(Max.)		13.000 kg·m ²					
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Motor		0.052 kg·m ²					
	Location	Refer to Outline Drawing								
Application		Sound Pressure Level (No-load & mean value at 1m from motor)								
Area classification	Not applicable	62 dB(A)								
Type of Ex-Protection	Non-Hazardous	Vibration								
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)	1.6 mm/sec (r.m.s)								
ACCESSORIES										
						SUBMITTAL DRAWING				
						Outline Dimension Drawing		Motor Weight(Approx.)		
						B5	LM-T0133B5PL001	79 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.

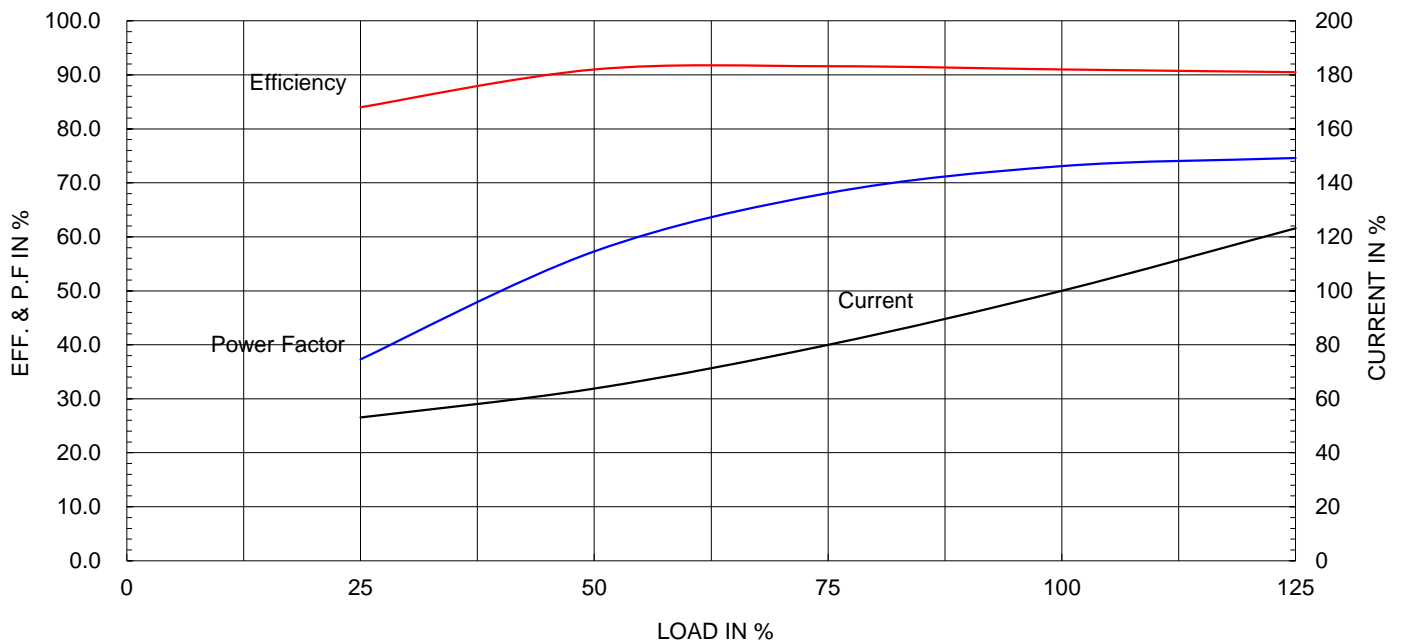
Type :	HKP-5.5/6
Full Load Torque :	4.6 kg.m
Motor moment of Inertia (J) :	0.052 kg.m ²
Load moment of Inertia (J) :	13.000 kg.m ²

5.5 kW	6 P	60 Hz
Speed at Full Load :		1175 RPM
Rated Voltage	220V	
Full Load Current	21.7A	

SPEED VS TORQUE & CURRENT CURVE



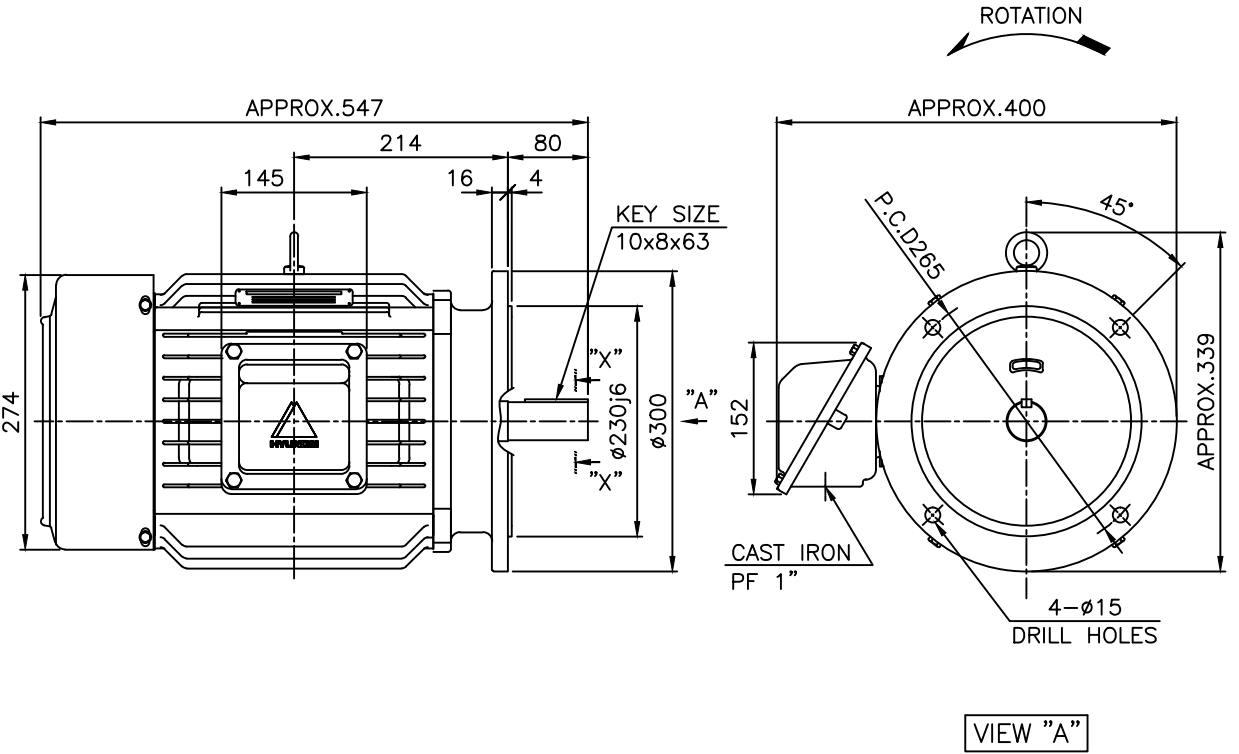
OUTPUT VS EFF., P.F & CURRENT CURVE



본 도면은 현대일렉트릭(주) 재산이므로
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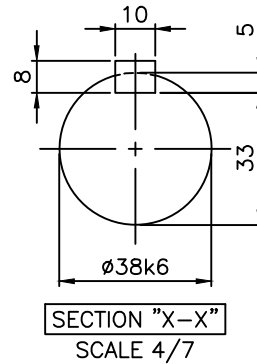
	1	2	3	4				
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



NOTE

1.TOLERANCE :

FLANGE HOLES	$\phi 15$	$+0.43$ 0
RABBET DIAMETER	$\phi 230$	$+0.016$ -0.013
SHAFT DIAMETER	$\phi 38$	$+0.018$ $+0.002$
KEYWAY WIDTH	10	0 -0.036
KEYWAY DEPTH	5	$+0.2$ 0
KEY WIDTH	10	0 -0.036
KEY HEIGHT	8	0 -0.090



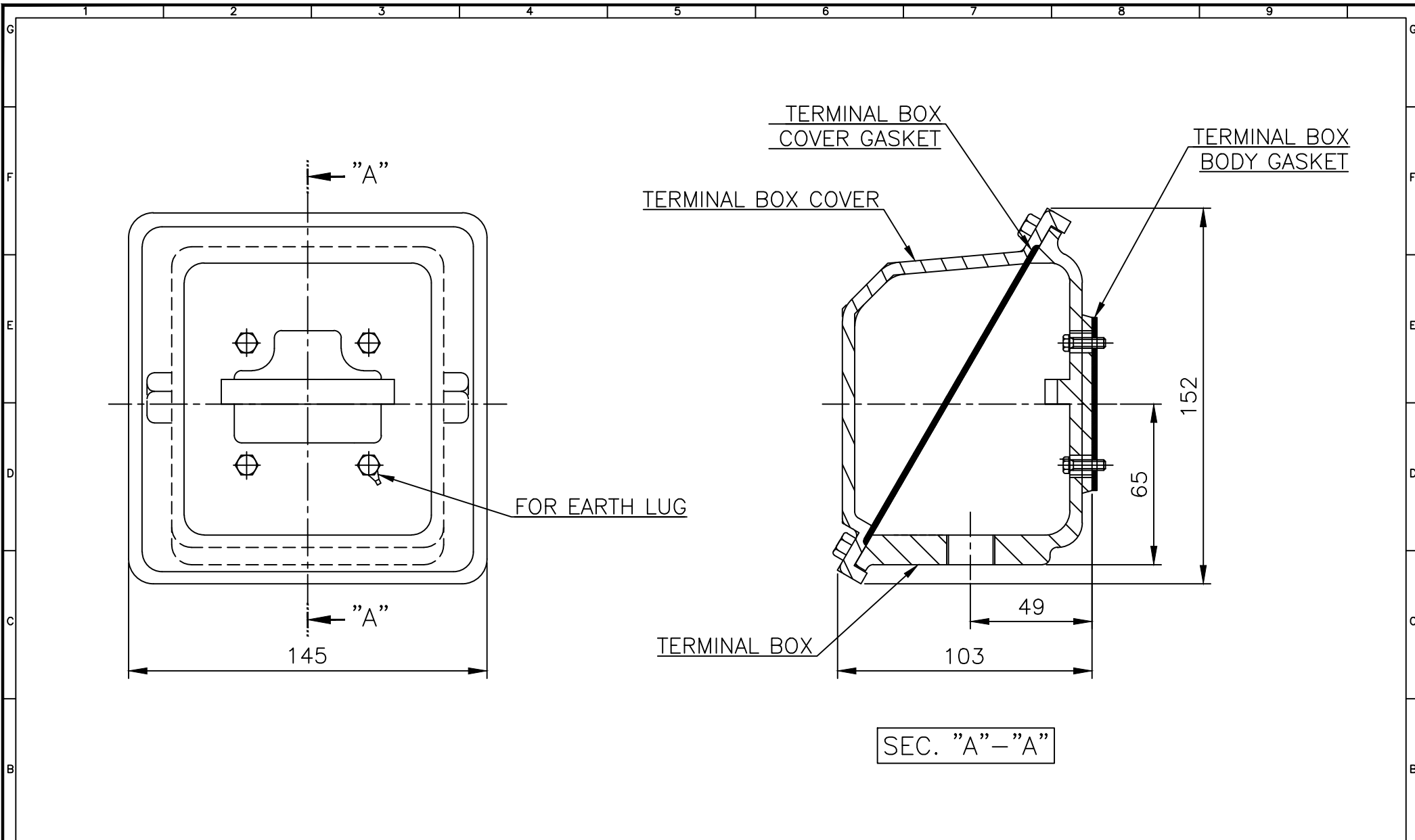
APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.132M(IE3, HK TYPE)	DWG SIZE	A4 (1:1)
CHKD BY	S.Y.KIM	SCALE	1/7	TITLE	OUTLINE		
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	REF. NO		Sheet No.	of
DSND BY	S.H.YUN	DATE	2018-09-19	DWG NO	LM-T0133B5PL001	Revision No.	0



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▽	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	Terminal Box Arrangement		
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	DATE	2011-10-26	REF. NO	227B8004CB
DSND BY	H.K.LEE	DATE	2011-10-26	DWG NO	3M-148549	Sheet No.	of
				Revision No.	2		

일반가공공차		일반기계공차	
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