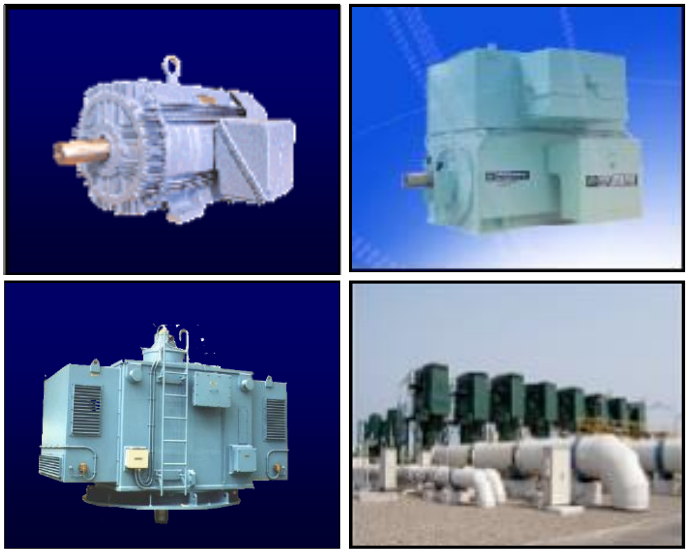
HYUNDAI ELECTRIC

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

SPECIFICATION for INDUCTION MOTOR



HYUNDAI ELECTRIC

Contents

HYUNDAI ELECTRIC

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.	4406KSTD40SSDS1STFE3V11DL0SDS	Item No.		Rev. No.	[ ]
Project Name		Project No.		Quantity	

GENERAL SPECIFICATION

Frame Size		132M
Type		HKP-5.5/6
Enclosure(Protection)		Totally Enclosed (IP55)
Method of Cooling		IC411(FC)
Rated Frequency		60 Hz
Number of Phases		3
Insulation Class		■ F ☐ B ☐ H
Temp. Rise at full load (by resistance method)		
	at 1.0 S.F	80 deg. C
Motor Location		■ Indoor ☐ Outdoor
Altitude		Less than 1000
Relative Humidity		Less than 80 %
Ambient Temp.		40 deg. C (Max.)
Duty Type		Continuous(S1)
Service Factor		1.15
Mounting		☐ B3 ☐ B5 ■ V1 ☐ B3/B5
Bearing	Type	Anti-Friction
	DE/N-DE	6308ZZC3 / 6308ZZC3
	Lubricant	Grease(Polyrex-EM)
External Thrust		Not applicable
Coupling Method		■ Direct ☐ V-Belt
Shaft Extension		■ Single ☐ Double
Terminal Box	Main	☐ Steel ■ Cast Iron
	Aux.	☐ Yes ■ No
	Location	Refer to Outline Drawing
Application		
Area classification		Not applicable
Type of Ex-Protection		Non-Hazardous
Applicable Standard		KS, IEC, NEMA MG1 Part30(Vpeak)

PERFORMANCE DATA

Rated Output		5.5 kW		8 HP
Number of Poles		6		
Rotor Type		Squirrel Cage		
Starting Method*		■ D.O.L	☐ Y-Δ	
Rated Voltage		440 V		
Current	Full Load	10.9 A		
	Locked-rotor**	750 %		
Efficiency				
	50% Load	91.0 %		
	75% Load	91.6 %		
	100% Load	91.0 %		
Power Factor(p.u)				
	50% Load	0.573		
	75% Load	0.681		
	100% Load	0.731		
Speed at Full Load		1175 r.p.m		
Torque				
	Full Load	4.6 kg·m		
	Locked-rotor**	170 %		
	Breakdown**	250 %		
Moment of Inertia (J)				
	Load(Max.)	13.000 kg·m²		
	Motor	0.052 kg·m²		
Sound Pressure Level (No-load & mean value at 1m from motor)		62 dB(A)		
Vibration		1.6 mm/sec (r.m.s)		
Permissible number of consecutive starts		Cold 3 times		
		Hot 2 times		
Paint	Munsell No.	4.4PB5.5/5.6(VL-451)		

ACCESSORIES

SUBMITTAL DRAWING

Outline Dimension Drawing	\ Motor Weight(Approx.)	
V1	LM-T0133V1PL001	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.

HYUNDAI ELECTRIC

PERFORMANCE CURVE

CURVE NO.

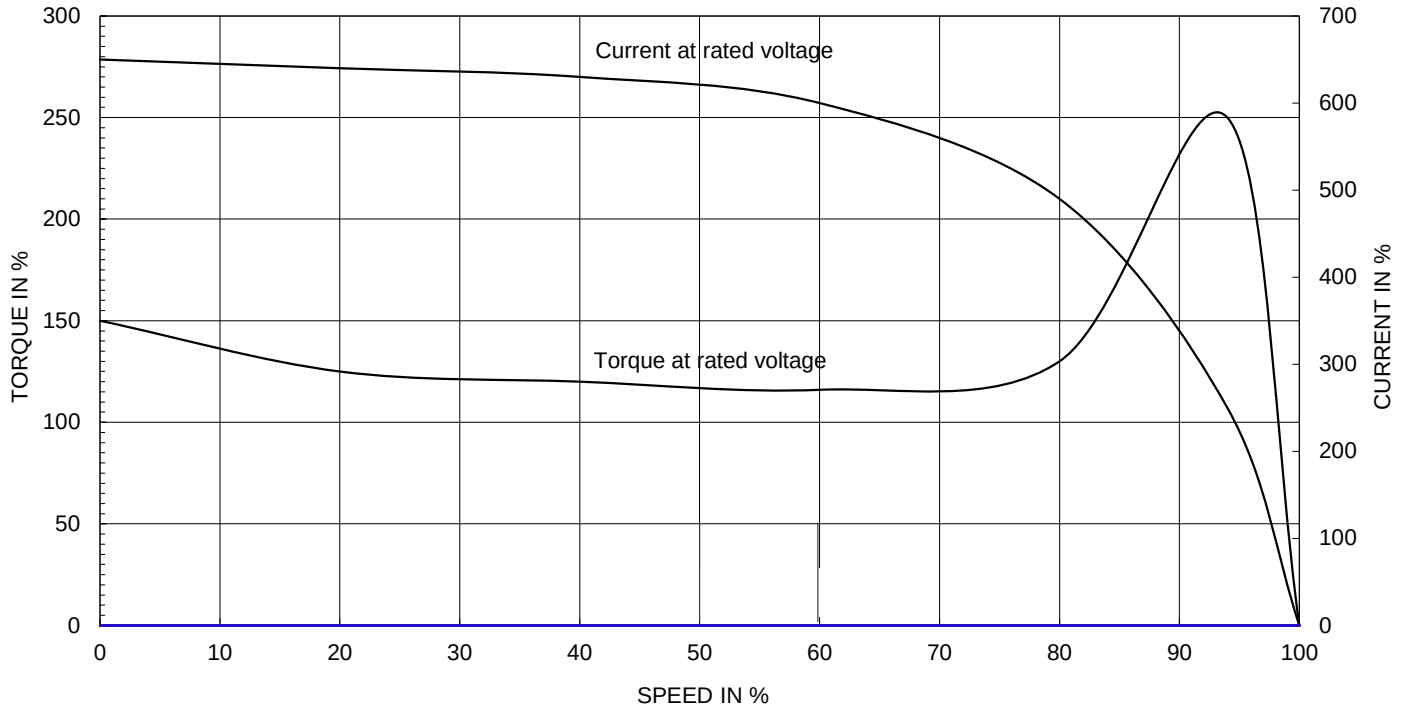
P-5P534406KSTD40S

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	$kg.m^2$

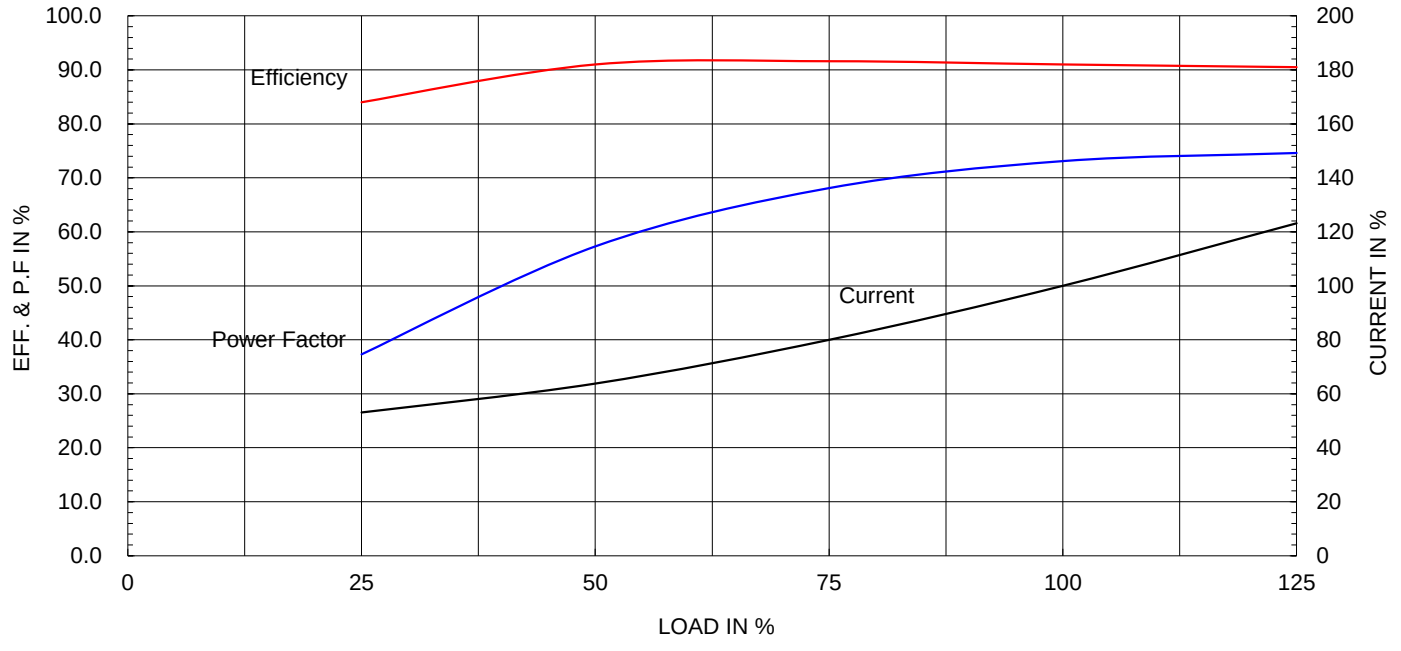
5.5 kW	6 P	60 Hz
Speed at Full Load :		1175 RPM

Rated Voltage	440V		
Full Load Current	10.8A		

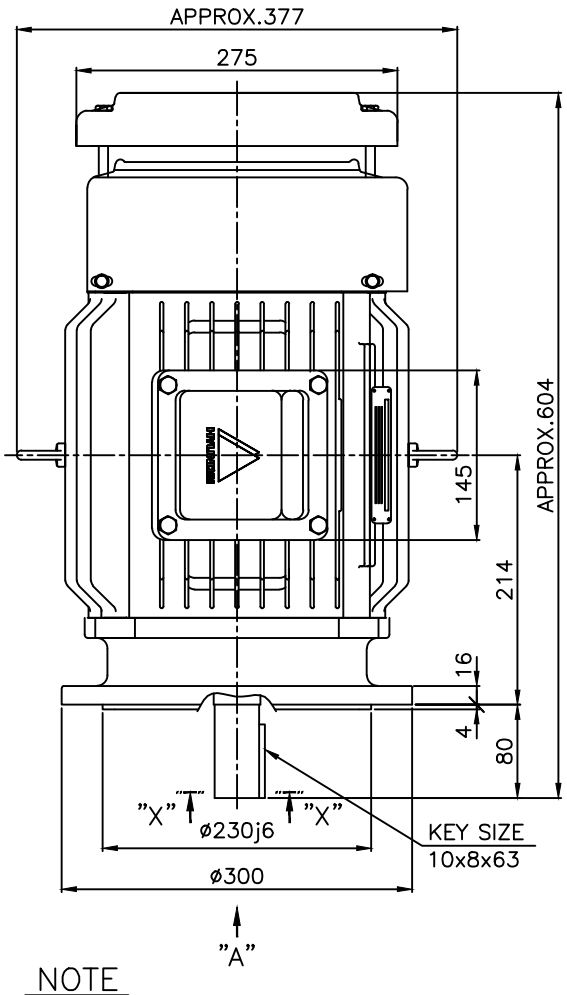
SPEED VS TORQUE & CURRENT CURVE

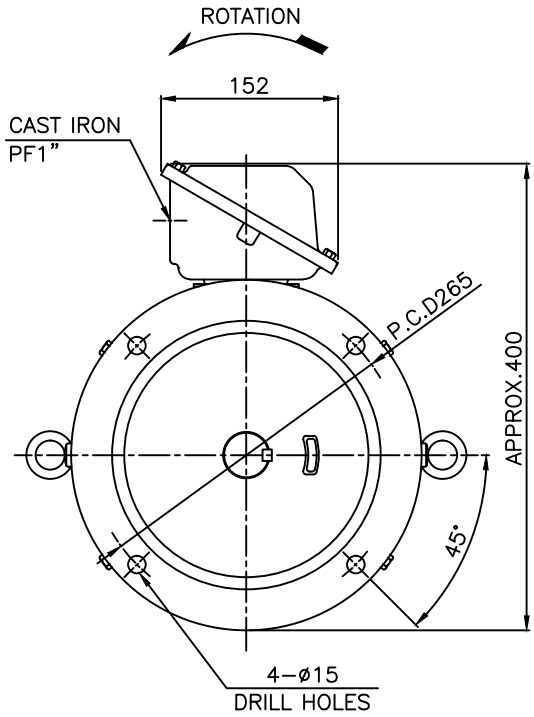


OUTPUT VS EFF., P.F & CURRENT CURVE



▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



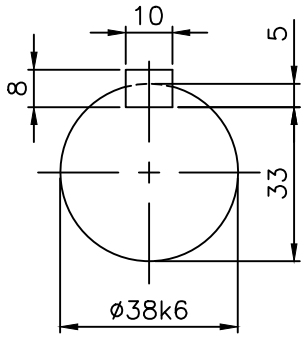


VIEW "A"

NOTE

1.TOLERANCE :

FLANGE HOLES	ø15	+0.43 0
RABBET DIAMETER	ø230	+0.016 −0.013
SHAFT DIAMETER	ø38	+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

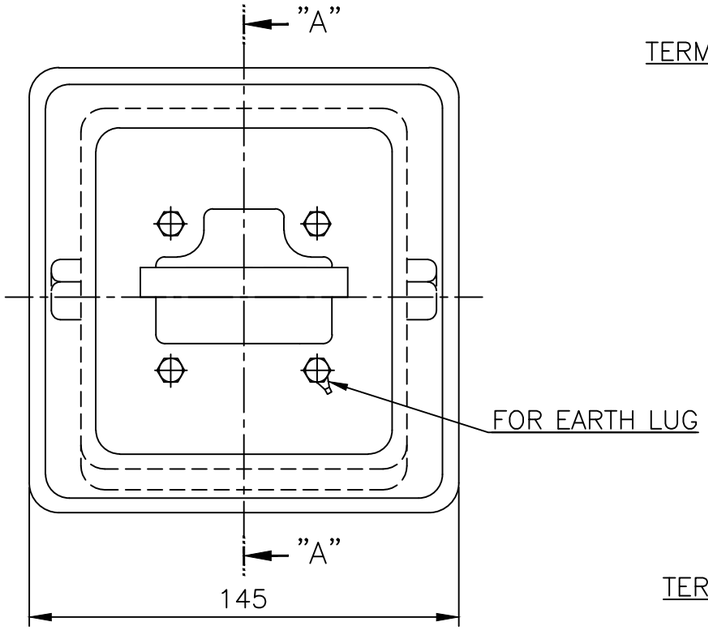


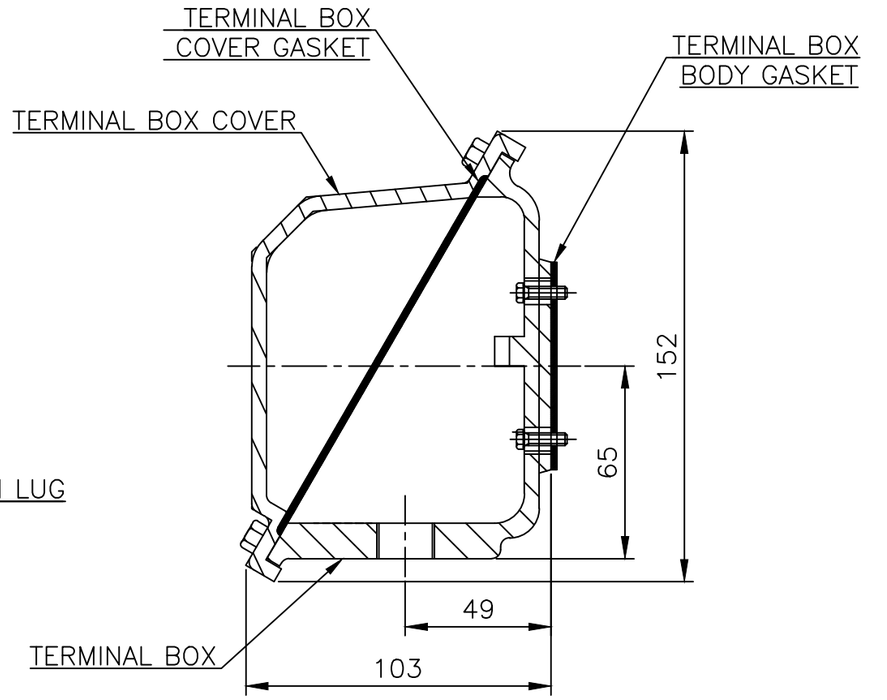
SECTION "X-X"
SCALE 4/6

APPD BY	S.K.HAN	UNIT	mm
CHKD BY	S.Y.KIM	SCALE	1/6
CHKD BY	R.G.KIM	PROJEC'N	3각법(3rd Angle)
DSND BY	S.H.YUN	DATE	2018-09-19

HYUNDAI ELECTRIC

SUBJECT	KS, IEC Fr.132M(IE3, HK TYPE)		DWG SIZE A4 (1:6)
TITLE	OUTLINE		
REF. NO		Sheet No.	of
DWG NO	LM-T0133V1PL001	Revision No.	0





SEC. "A"–"A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
.						

일반가공공차		일반계곤공차	
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.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)				
DSND BY	H.K.LEE	DATE	2011–10–26	REF. NO	227B8004CB	Sheet No.	of
HYUNDAI ELECTRIC				DWG NO	3M–148549	Revision No.	2