

AC INDUCTION MOTOR DATA SHEET

Model No. or RFQ No.		Item No.	Rev. No. [0]
Project Name		Project No.	Quantity sets

GENERAL SPECIFICATION		PERFORMANCE DATA		
Frame Size	200L	Rated Output	37 kW	50 HP
Type	HS	Number of Poles	4	
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	380 V 220 V
Number of Phases	3	Current	Full Load	62.1 A 72.0 A 124.3 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	670 % 670 % 670 %
Temp. Rise at full load (by resistance method)		Efficiency		
at 1.0 S.F	80 deg. C	50% Load 92.5 %		
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load 93.2 %		
Altitude	Less than 1000 meter	100% Load 93.0 %		
Relative Humidity	Less than 80 %	Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)	50% Load 0.730		
Duty Type	Continuos (S1)	75% Load 0.795		
Service Factor	1.15	100% Load 0.840		
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	1780 r.p.m	
Bearing	Type	Anti-Friction		
	DE/N-DE	6313ZC3 / 6211ZC3		
	Lubricant	Grease(Gadus S2 V100 2)		
External Thrust	Not applicable			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Torque		
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	Full Load 20.2 kg·m		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Location	Refer to Outline Drawing			
Application		Moment of Inertia (J)		
Area classification	Non-Hazardous	Load(Max.) 24.000 kg·m ²		
Type of Ex-Protection	Not applicable	Motor 0.280 kg·m ²		
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)	Sound Pressure Level (No-load & mean value at 1m from motor)		
		77 dB(A)		
		Vibration		
		2.2 mm/sec (r.m.s)		
		Permissible number of consecutive starts		
		Cold 3 times		
		Hot 2 times		
		Paint	Munsell No. 4.0PB5.4/5.5(VL-451)	

ACCESSORIES	SUBMITTAL DRAWING		
	Outline Dimension Drawing \ Motor Weight(Approx.)		
	B3	227B1930CB02	297 kg
	B5	227B1931CB02	327 kg
	V1	227B1932CB02	327 kg
	B3/B5	227B1931PB02	327 kg
	Main T-Box Ass'y	227B8003CB5	

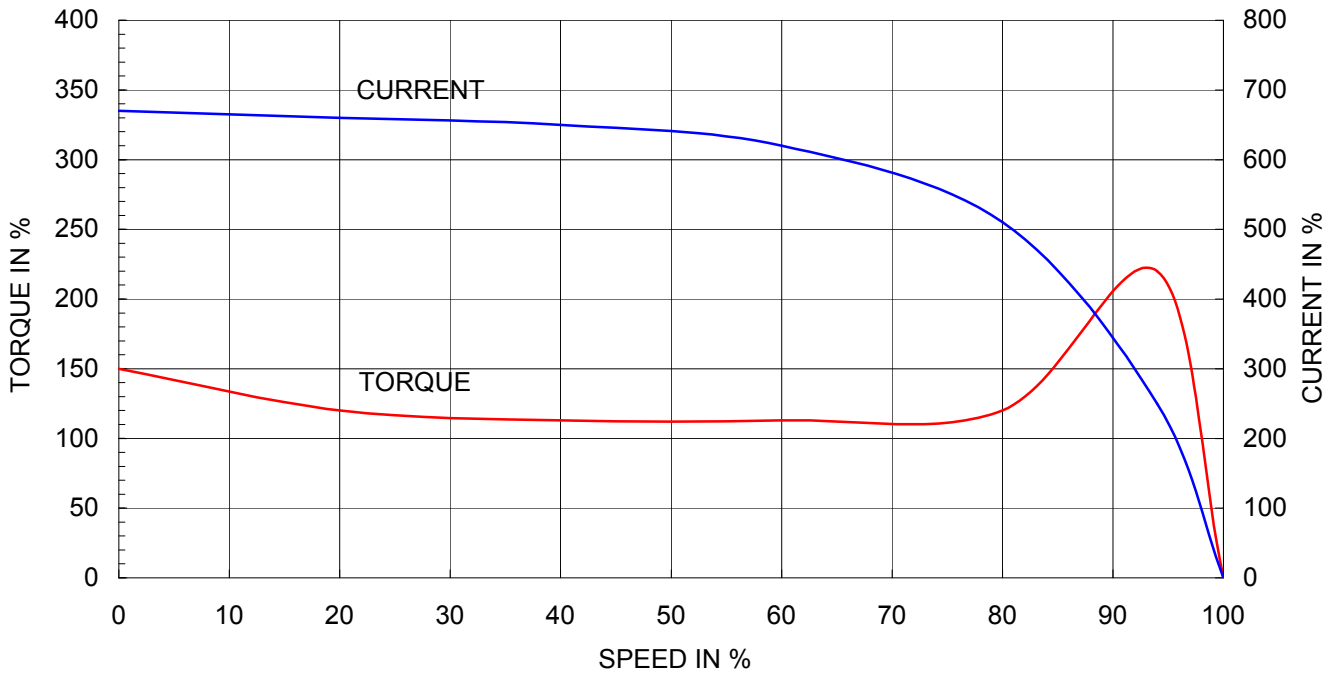
SPARE PARTS	REMARK										
	High Efficiency * For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise										
<table border="1"> <thead> <tr> <th>Date</th> <th>DSND</th> <th>CHKD</th> <th>CHKD</th> <th>APPD</th> </tr> </thead> <tbody> <tr> <td>2011-04-14</td> <td>W.H.BACK</td> <td>S. J. RA</td> <td>O. J. KIM</td> <td>J. H. KIM</td> </tr> </tbody> </table>		Date	DSND	CHKD	CHKD	APPD	2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM
Date	DSND	CHKD	CHKD	APPD							
2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM							

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.
** Data is based on when the motor is supplied at rated voltage & frequency, and the data is expressed as a percentage of full-load value.

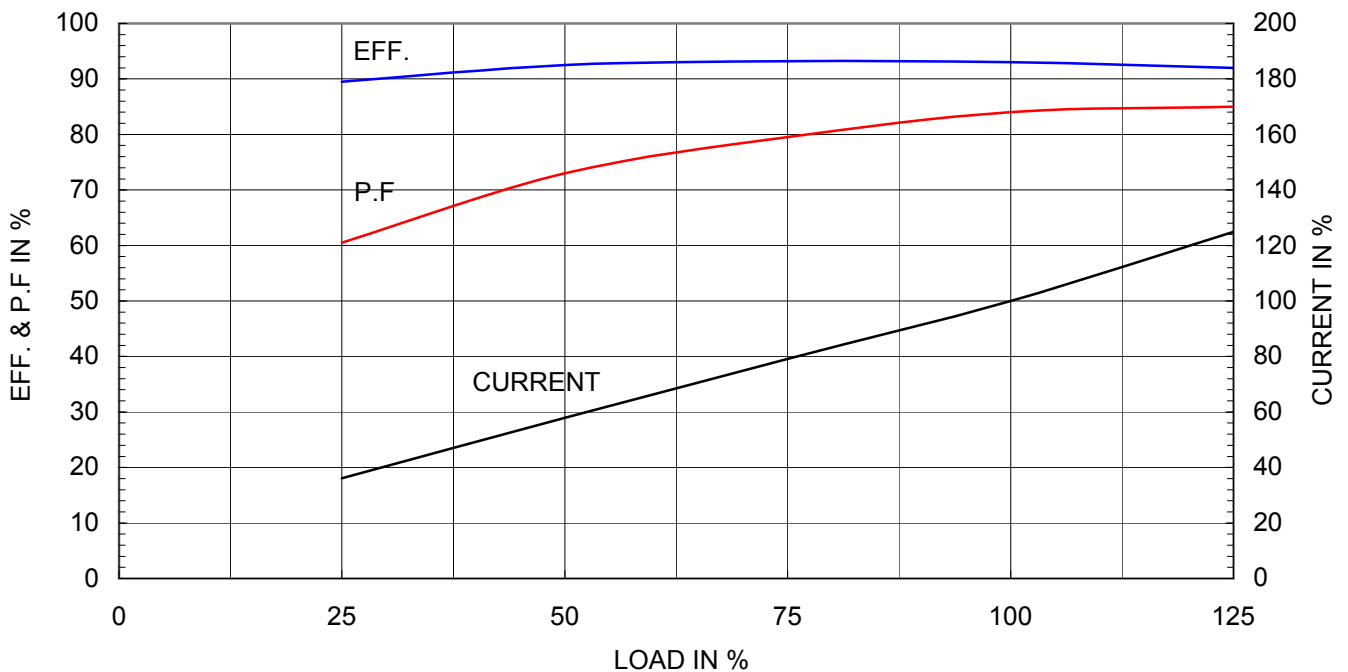
Type	:	HS
Full Load Torque	:	20.2 Kg.m
Motor moment of Inertia (J)	:	0.280 Kg.m ²
Load moment of Inertia (J)	:	24.000 Kg.m ²

37 kW	4 P	60 Hz	
Speed at Full Load :		1780 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	62.1A	72.0A	124.3A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





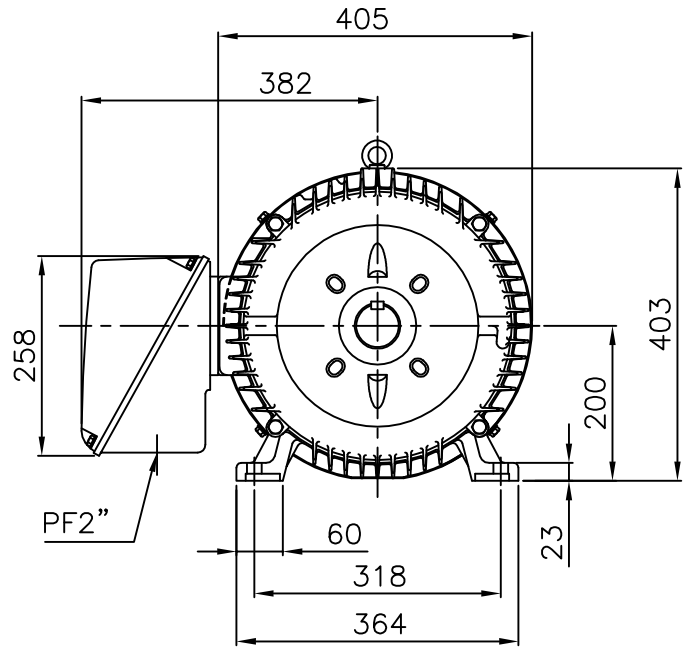
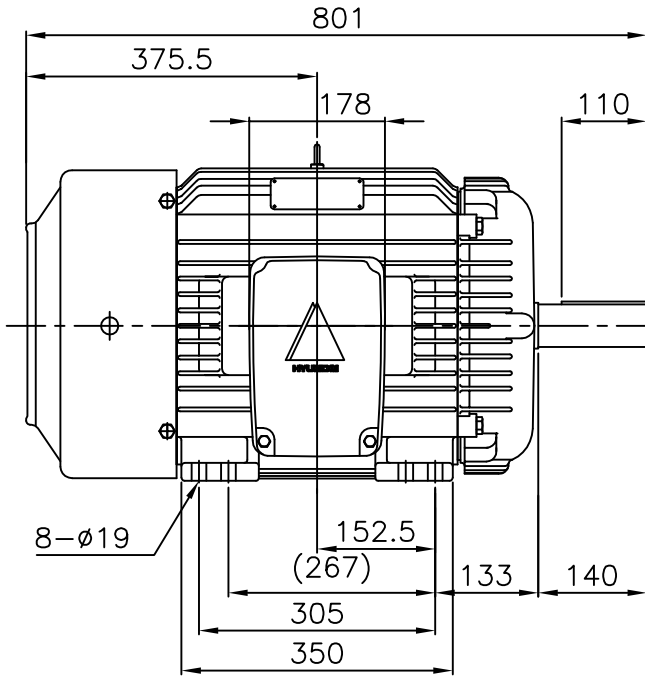
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HKS , HK

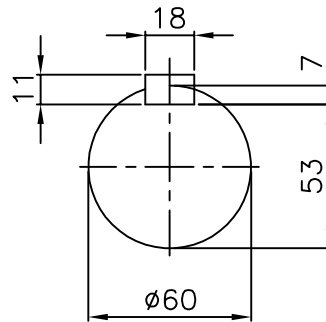
CAST IRON FRAME



NOTE

1.TOLERANCE :

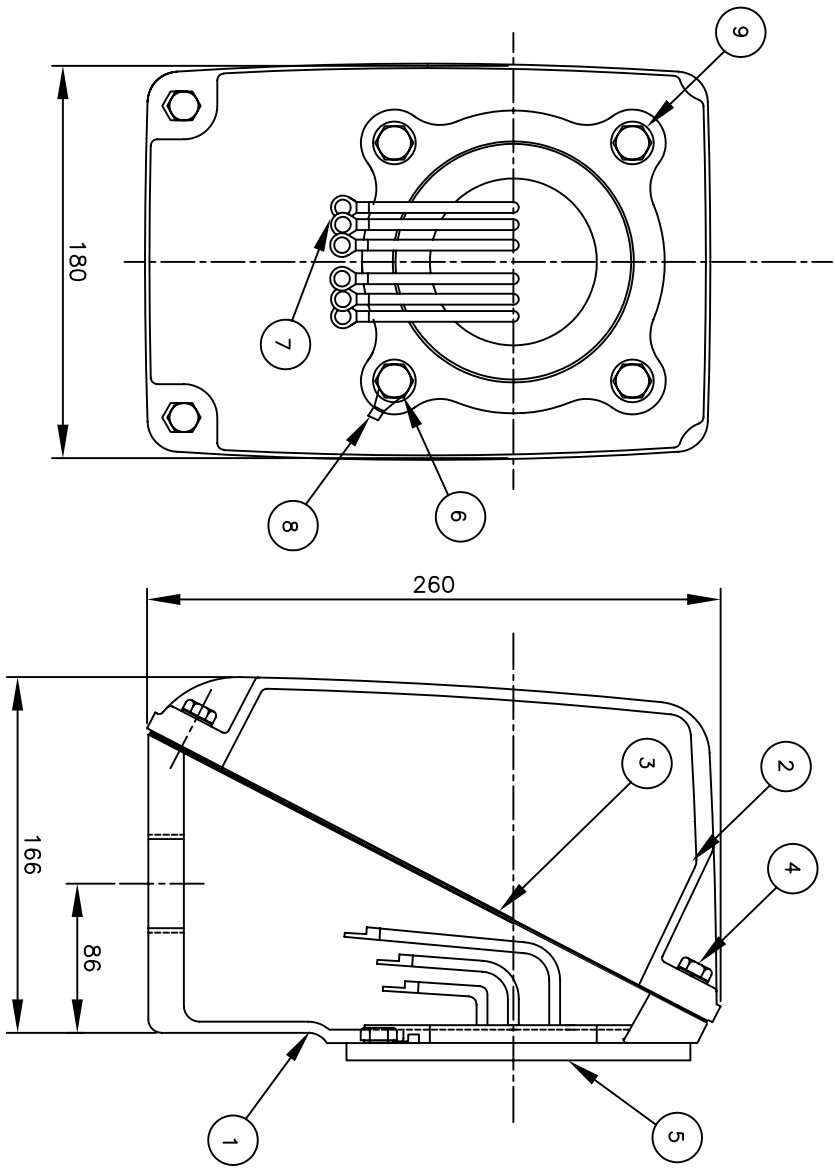
CENTER HEIGHT	200	⁺⁰ / _{-0.5}
BASE HOLES	ø19	^{+0.43} / ₋₀
SHAFT DIAMETER	ø60	^{+0.030} / _{+0.011}
KEYWAY WIDTH	18	⁺⁰ / _{-0.043}
KEYWAY DEPTH	53	⁺⁰ / _{-0.2}



* CAST IRON CONDUIT BOX

APPD BY	KIM.Y.S	UNIT	mm	SUBJECT	XSD KS 200L 4,6P	CAD PROJ \ FILE	
CHKD BY	---	SCALE	1/10	TITLE	OUTLINE		
CHKD BY	KO.S.H	PROJEC'N	3rd Angle	REF. NO	B1930CB2	Sheet No.	of
DSND BY	LEE KWANG SOO	DATE	2001.2.20	DWG NO	227B1930CB2	Revision No.	0





PT	DESCRIPTION	MATERIAL	DIMENSION	Q.TY
1	CONDUIT BOX	FC20		1
2	C/B COVER	FC20		1
3	GASKET(COVER)	N.B.R	T2X170X210	1
4	SCREW(COVER)	S45C	MBXL20	4
5	GASKET(C/B)	N.B.R		1
6	SCREW(C/B)	S45C	MBXL20	4
7	TERMINAL LUG	CU	T1.6	
8	TERMINAL GROUND	CU	T1.6	1
9	WASHER	S45C	MB X L10	4

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
	APPD BY KIM JIN HONG	UNIT	MM				
	CHKD BY KIM YU SUNG	SCALE	1/2				
	CHKD BY GO SECK HAN	PROJEC'N	3*45 (3rd Angle)				
	DSND BY LEE KWANG SOO	DATE	94.12.20				
	TITLE			CONDUIT BOX & COVER ASS'Y			
	REF. NO	B8003CB5		Sheet No. of			
	DWG NO	227B8003CB5		Revision No. 0			



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XSMOUT\B8003CB4