



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	2			
Enclosure(Protection)	Totally Enclosed (IP55)	Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)	Starting Method*	<input 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	58.4 A	67.6 A 116.8 A	
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H	Locked-rotor**	650 %	650 %	650 %	
Temp. Rise at full load (by resistance method) at 1.0 S.F	80 deg. C	Efficiency	50% Load 91.9 % 75% Load 92.9 % 100% Load 92.4 %			
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	Power Factor(p.u)	50% Load 0.855 75% Load 0.890 100% Load 0.900			
Altitude	Less than 1000 meter	Speed at Full Load	3560 r.p.m			
Relative Humidity	Less than 80 %	Torque	Full Load 10.1 kg-m Locked-rotor** 160 % Breakdown** 230 %			
Ambient Temp.	40 deg. C (Max.)	Moment of Inertia (J)	Load(Max.) 4.750 kg-m ² Motor 0.168 kg-m ²			
Duty Type	Continuos (S1)	Sound Pressure Level (No-load & mean value at 1m from motor)	86 dB(A)			
Service Factor	1.15	Vibration	2.2 mm/sec (r.m.s)			
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Permissible number of consecutive starts	Cold 3 times Hot 2 times			
Bearing	Type	Anti-Friction	Paint Munsell No. 4.0PB5.4/5.5(VL-451)			
	DE/N-DE	6212ZC3 / 6211ZC3	SUBMITTAL DRAWING			
	Lubricant	Grease(Gadus S2 V100 2)				
External Thrust	Not applicable		Outline Dimension Drawing \ Motor Weight(Approx.)			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt			B3 227B2000AB09 297 kg		
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double					
Terminal	Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron					
Box	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	Location	Refer to Outline Drawing				
Application						
Area classification	Non-Hazardous					
Type of Ex-Protection	Not applicable					
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)					

ACCESSORIES	SUBMITTAL DRAWING																														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Main T-Box Ass'y</td> <td style="text-align: center;">227B8003CB5</td> </tr> <tr><td colspan="2"></td><td></td></tr> <tr><td colspan="2"></td><td></td></tr> <tr><td colspan="2"></td><td></td></tr> <tr><td colspan="2"></td><td></td></tr> <tr><td colspan="2"></td><td></td></tr> <tr><td colspan="2"></td><td></td></tr> <tr><td colspan="2"></td><td></td></tr> <tr><td colspan="2"></td><td></td></tr> <tr><td colspan="2"></td><td></td></tr> </table>	Main T-Box Ass'y		227B8003CB5																											
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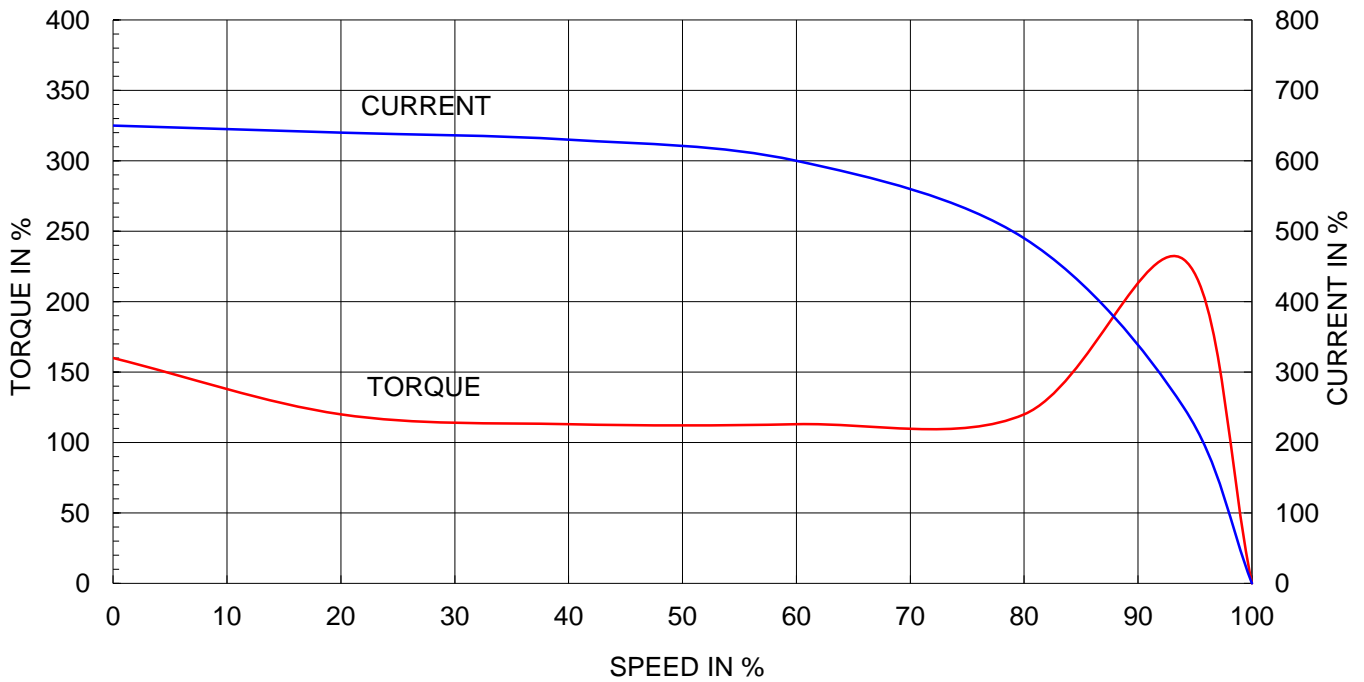
SPARE PARTS	REMARK										
	<p style="color: blue; margin: 0;">High Efficiency</p> <p style="font-size: small; margin: 0;">* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 15%;">Date</td> <td style="width: 15%;">DSND</td> <td style="width: 15%;">CHKD</td> <td style="width: 15%;">CHKD</td> <td style="width: 15%;">APPD</td> </tr> <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> </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.

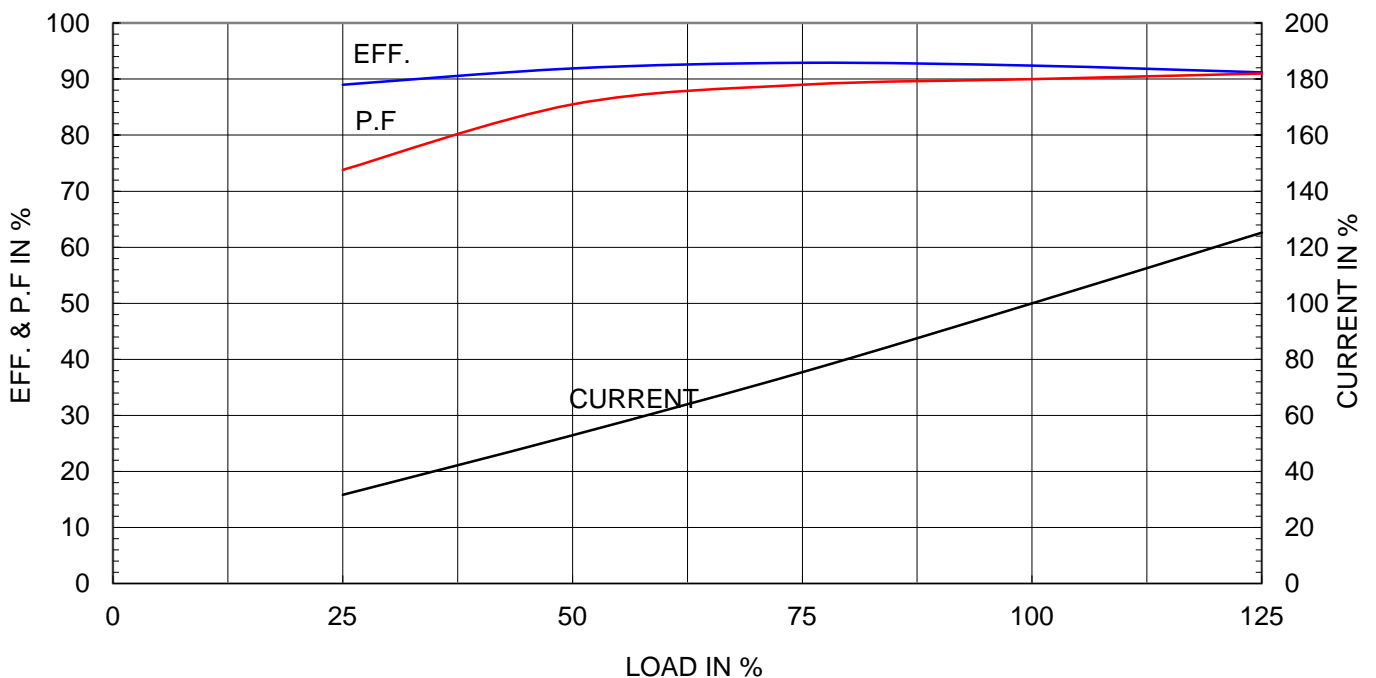
Type	:	HS
Full Load Torque	:	10.1 Kg.m
Motor moment of Inertia (J)	:	0.168 Kg.m ²
Load moment of Inertia (J)	:	4.750 Kg.m ²

37 kW	2 P	60 Hz	
Speed at Full Load :		3560 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	58.4A	67.6A	116.8A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





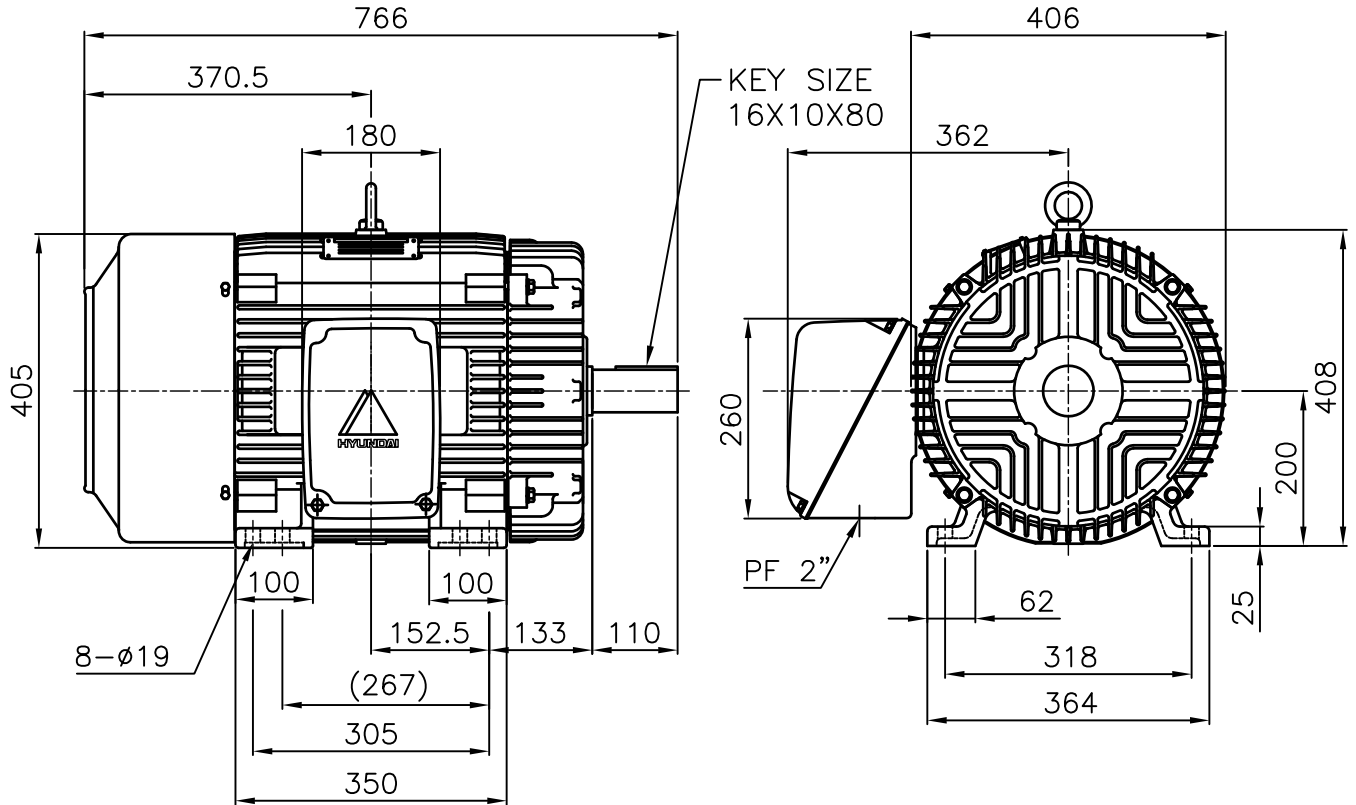
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HS

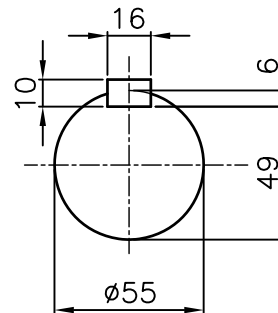
CAST IRON FRAME



NOTE

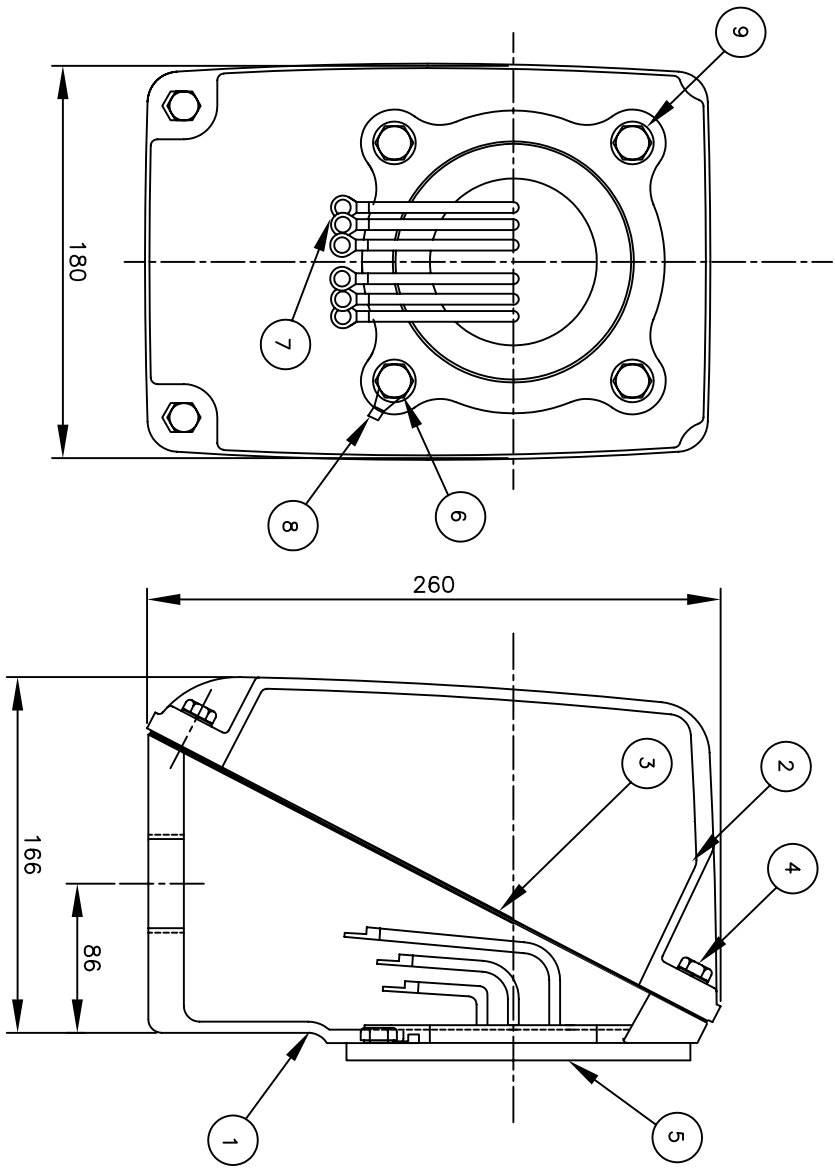
1.TOLERANCE :

CENTER HEIGHT	200	⁺⁰ / _{-0.5}
BASE HOLES	ø19	^{+0.43} / ₋₀
SHAFT DIAMETER	ø55	^{+0.030} / _{+0.011}
KEYWAY WIDTH	16	⁺⁰ / _{-0.043}
KEYWAY DEPTH	6	⁺⁰ / _{-0.2}



CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 200L 2P	CAD PROJ \ FILE
CHKD BY	K. S. LEE	SCALE	1/10			XSDNKS\B2000AB09
CHKD BY	I. K. KIM	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	S. M. KIM	DATE	2002.10.27			
				REF. NO	B2000AB09	Sheet No. of
				DWG NO	227B2000AB09	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

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APP'D BY	KIM JIN HONG	UNIT	MM				
CHK'D BY	KIM YU SUNG	SCALE	1/2				
CHK'D BY	GO SECK HAN	PROJEC'N	3*4 (3rd Angle)				
DSND BY	LEE KWANG SOO	DATE	94.12.20				
TITLE				CONDUIT BOX & COVER ASS'Y			
REF. NO	B8003CB5	DWG NO		227B8003CB5		Sheet No.	of
HYUNDAI HEAVY INDUSTRIES CO. LTD. INDUSTRIAL & POWER SYSTEMS				Revision No. 0			