

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	30 kW 40 HP			
Type	HS		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	380 V 220 V		
Number of Phases	3		Current	Full Load	52.3 A 60.5 A 104.5 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)			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 93.5 %				
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 0.710				
Duty Type	Continuos (S1)		75% Load 0.785				
Service Factor	1.15		100% Load 0.810				
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	6313ZC3 / 6211ZC3		Full Load 24.9 kg-m			
	Lubricant	Grease(Gadus S2 V100 2)		Locked-rotor** 170 %			
External Thrust	Not applicable		Breakdown** 220 %				
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.) 50.000 kg-m ²				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor 0.380 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		70 dB(A)			
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification	Non-Hazardous		Permissible number of consecutive starts				
Type of Ex-Protection	Not applicable		Cold 3 times				
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		Hot 2 times				
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B2000AB09	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				
			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.

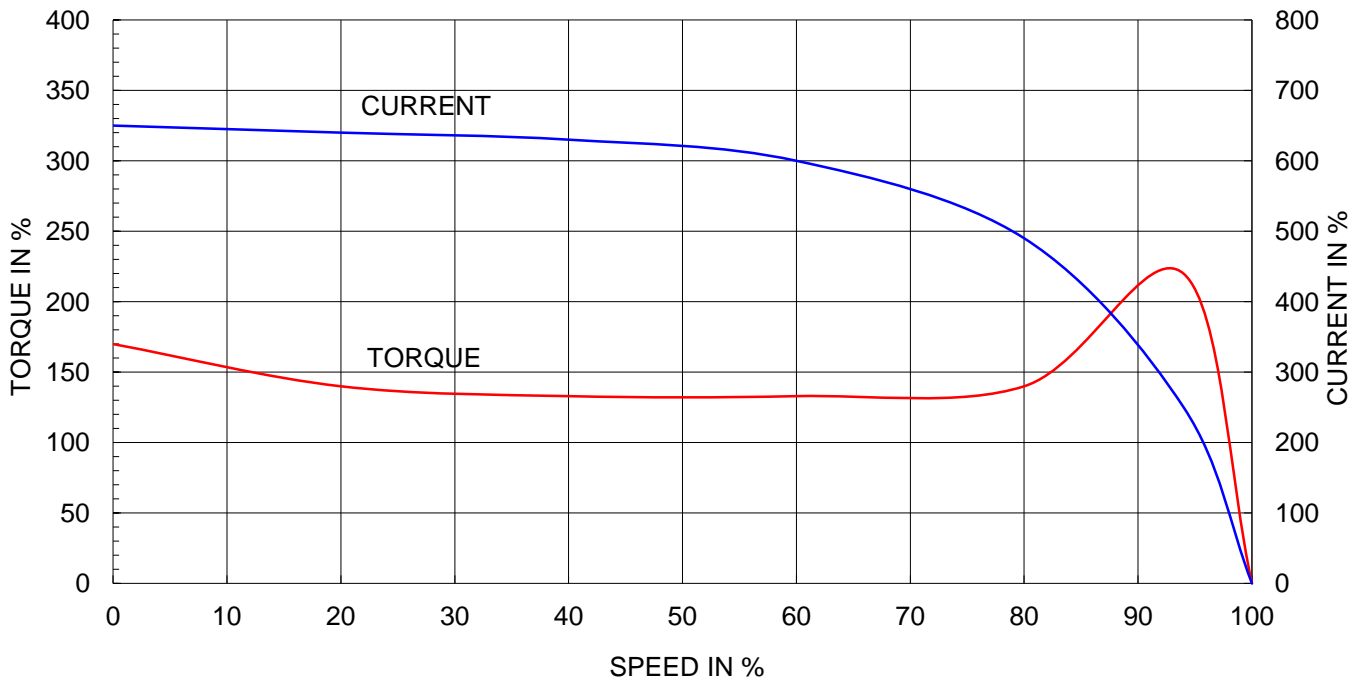
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

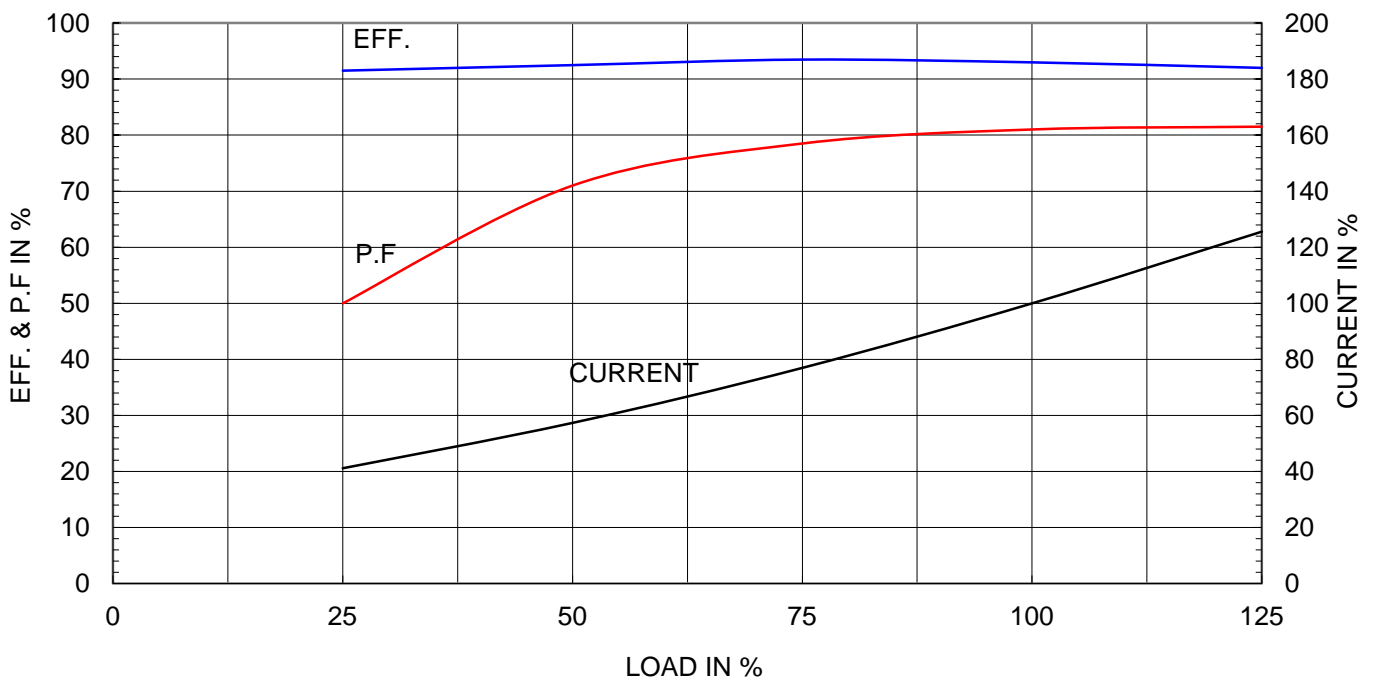
Type	HS	
Full Load Torque	24.9	Kg.m
Motor moment of Inertia (J)	0.380	Kg.m ²
Load moment of Inertia (J)	50.000	Kg.m ²

30 kW	6 P	60 Hz	
Speed at Full Load :		1175 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	52.3A	60.5A	104.5A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





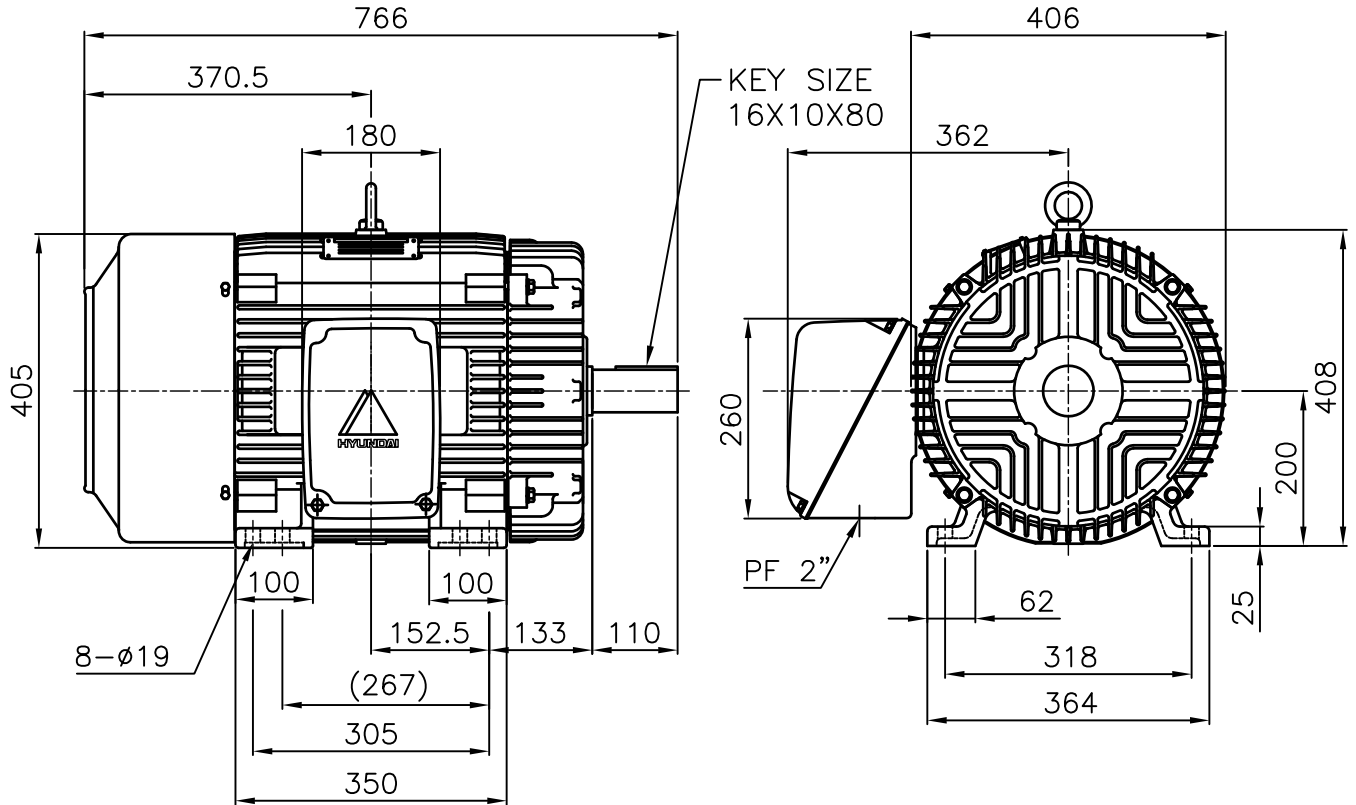
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HS

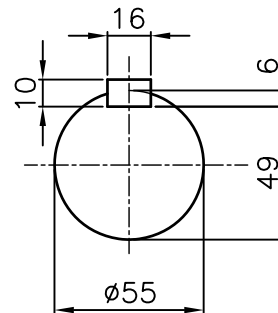
CAST IRON FRAME



NOTE

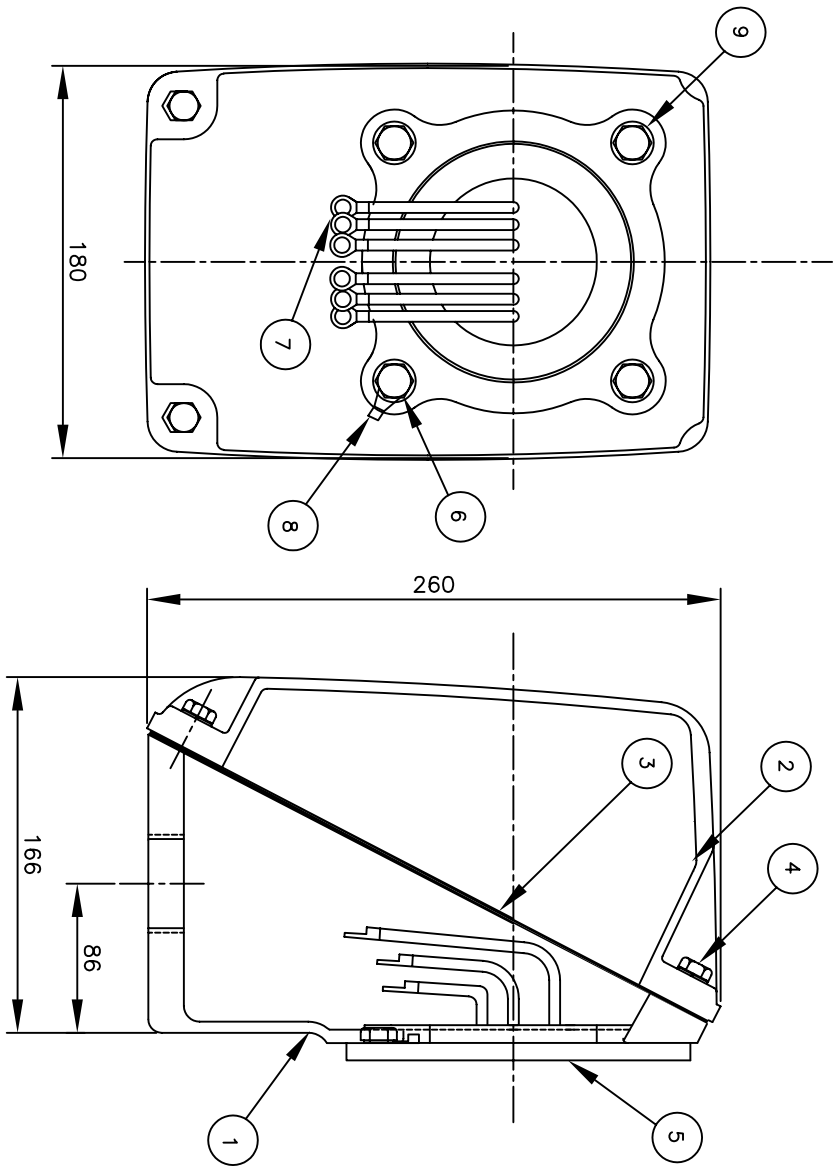
1.TOLERANCE :

CENTER HEIGHT	200	$+0$ -0.5
BASE HOLES	$\phi 19$	$+0.43$ -0
SHAFT DIAMETER	$\phi 55$	$+0.030$ $+0.011$
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			