

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*	☒ D.O.L ☐ 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	☒ F ☐ B ☐ 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	☒ Indoor ☐ 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	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1780 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6313ZC3 / 6211ZC3	Full Load 20.2 kg·m				
	Lubricant	Grease(Gadus S2 V100 2)	Locked-rotor** 150 %				
External Thrust	Not applicable		Breakdown** 220 %				
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.) 24.000 kg·m²				
Terminal	Main	☐ Steel ☒ Cast Iron	Motor 0.280 kg·m²				
Box	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	77 dB(A)				
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification	Non-Hazardous		Permissible number of				
Type of Ex-Protection	Not applicable		Cold 3 times				
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		Hot 2 times				
ACCESSORIES			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B1930CB02	297 kg		
			B5		kg		
SPARE PARTS			V1		kg		
			B3/B5		kg		
			Main T-Box Ass'y 227B8003CB5				
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.

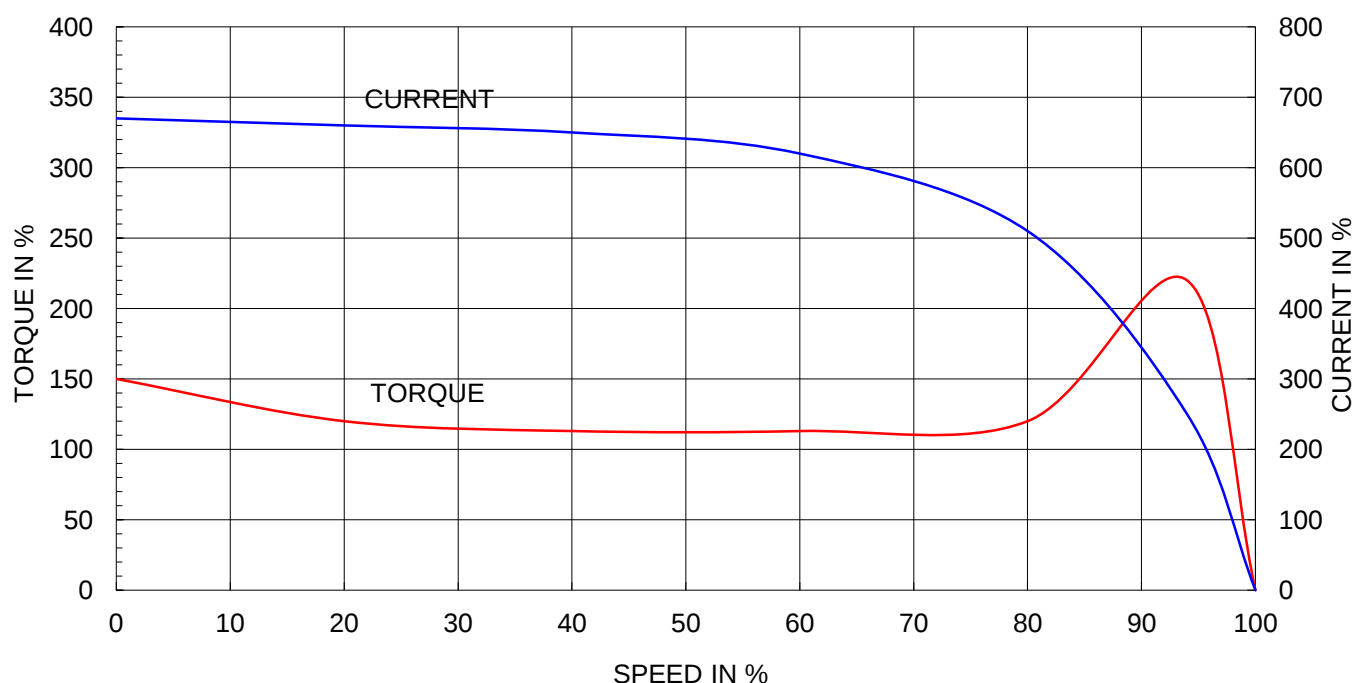
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

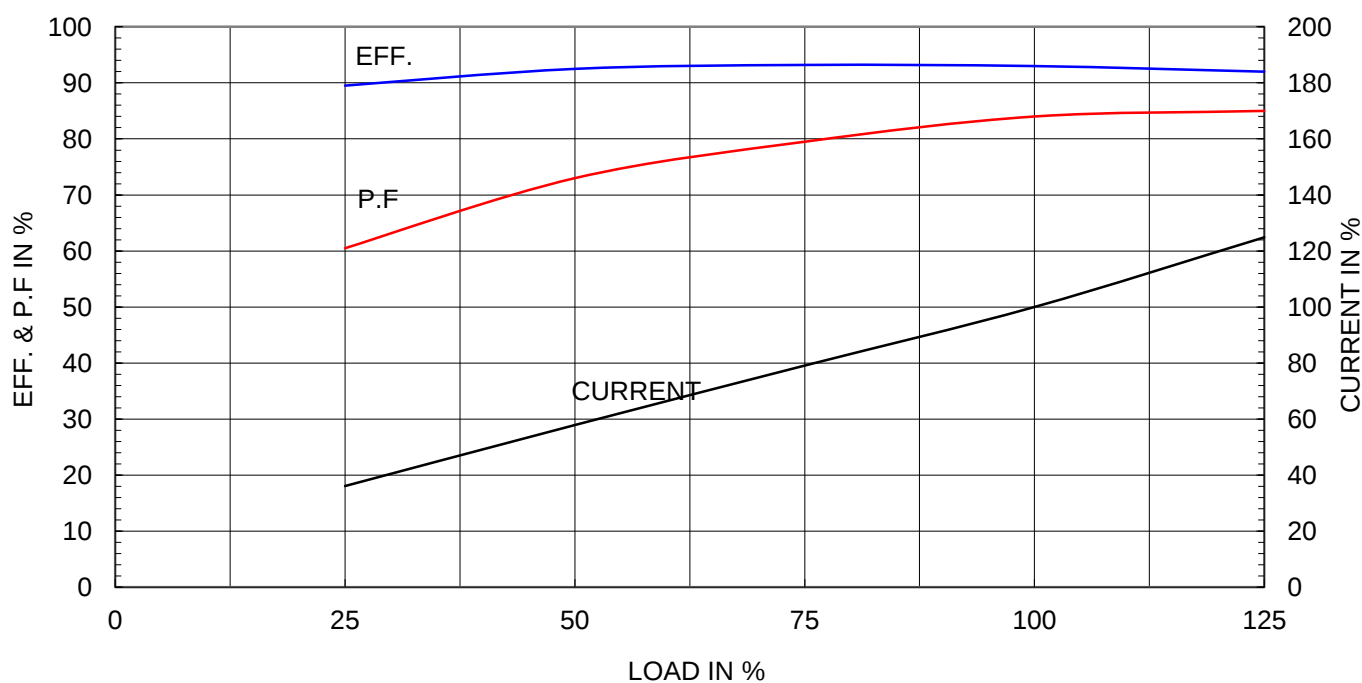
Type	:	HS
Full Load Torque	:	20.2 Kg.m
Motor moment of Inertia (J)	:	0.280 Kg.m ²
Load moment of Inertia (J)	:	24.000 Kg.m ²

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





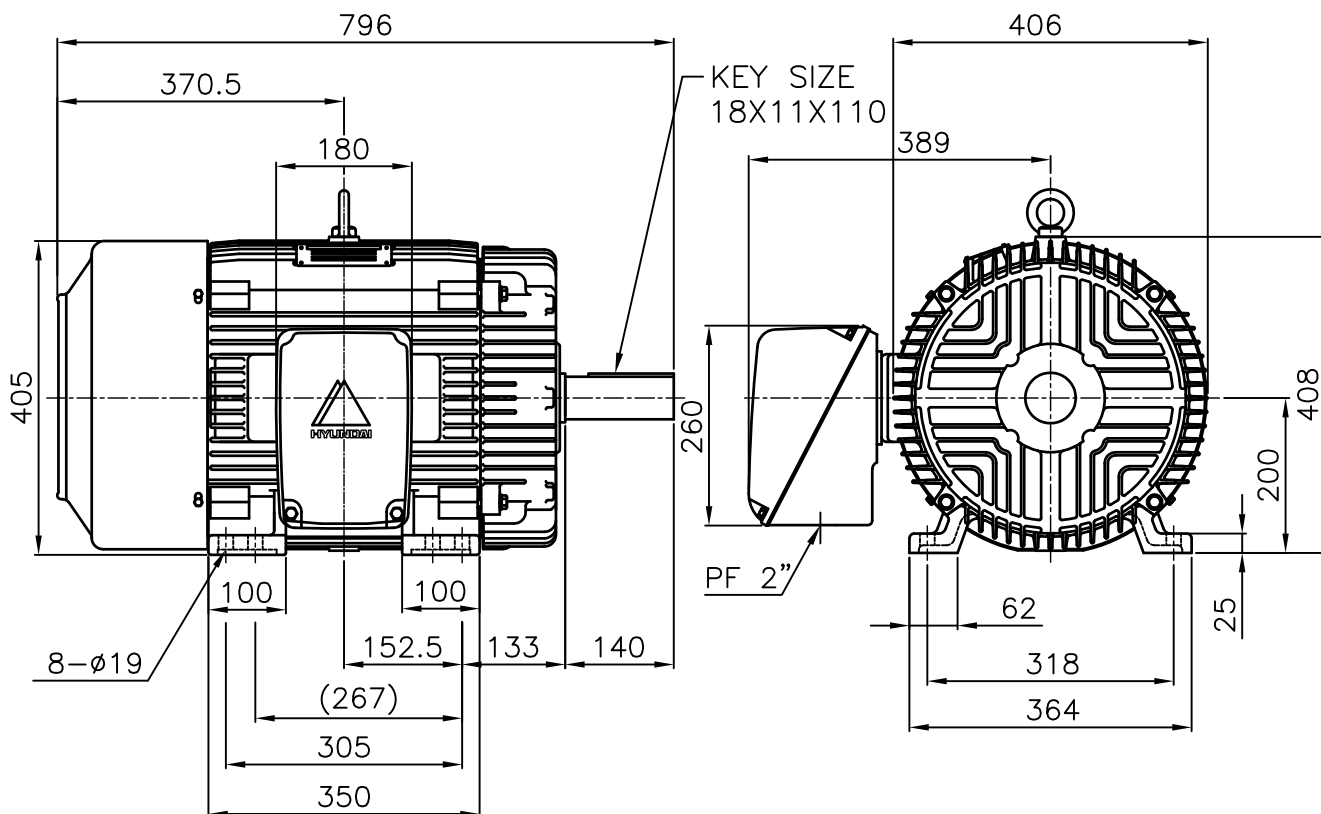
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HS

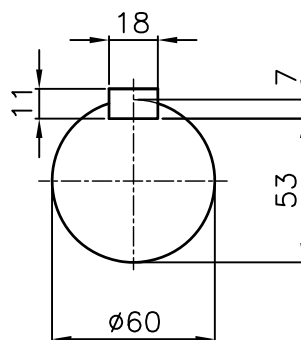
CAST IRON FRAME



NOTE

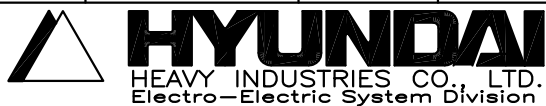
1.TOLERANCE :

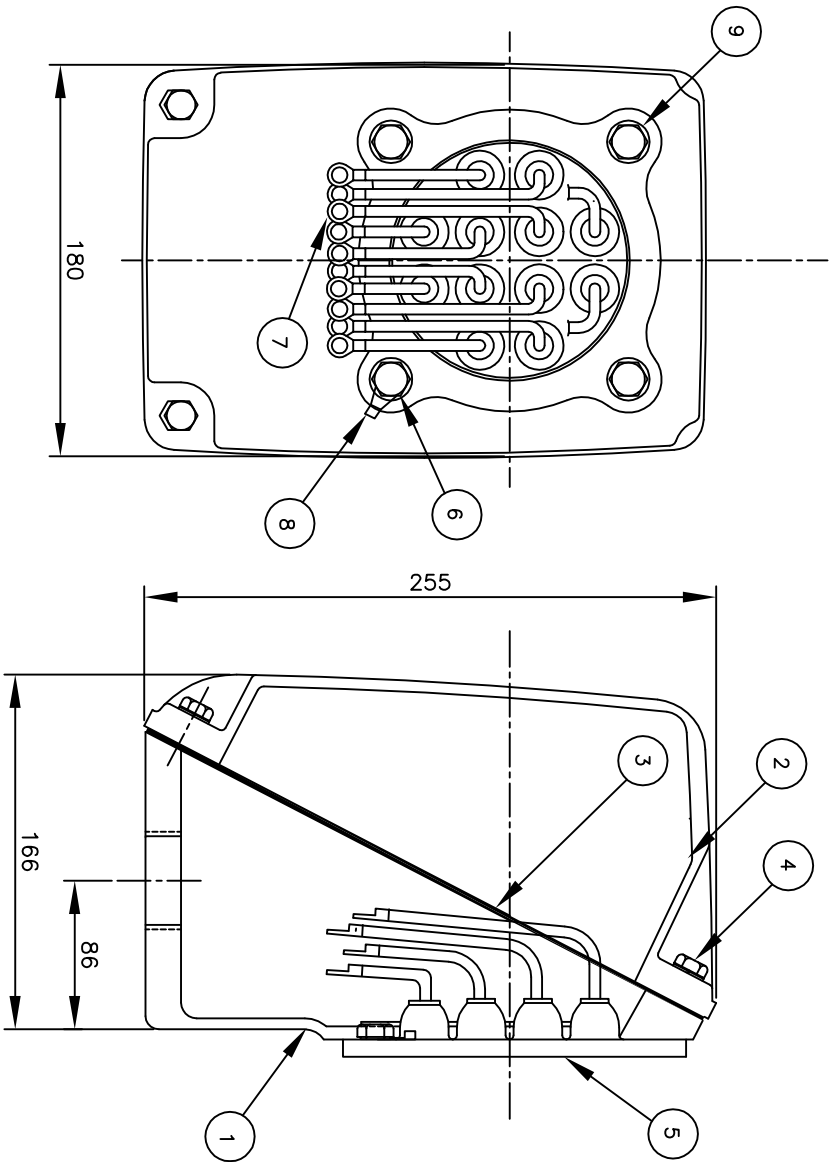
CENTER HEIGHT	200 ⁺⁰ _{-0.5}
BASE HOLES	$\phi 19$ ^{+0.43} ₋₀
SHAFT DIAMETER	$\phi 60$ ^{+0.030} _{+0.011}
KEYWAY WIDTH	18 ⁺⁰ _{-0.043}
KEYWAY DEPTH	7 ⁺⁰ _{-0.2}



CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 200L 4,6P	CAD PROJ \ FILE
CHKD BY	K. S. LEE	SCALE	1/10	TITLE	OUTLINE	XSDNKS\B2000AB10
CHKD BY	I. K. KIM	PROJEC'N	3rd Angle	REF. NO	B2000AB10	Sheet No. of
DSND BY	S. M. KIM	DATE	2002.10.31	DWG NO	227B2000AB10	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	M8XL20	4
5	GASKET(C/B)	N.B.R		1
6	SCREW(C/B)	S45C	M8XL20	4
7	TERMINAL LUG	CU	T1.6	
8	TERMINAL GROUND	CU	T1.6	1
9	WASHER	S45C	M8 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	PROJECT	3 [2] [1] [2] (3rd Angle)				
DSND	BY LEE KWANG SOO	DATE	94.12.20				
				REF. NO.	B8003CB5	Sheet No.	of
				DWG NO.	227B8003CB5	Revision No.	0



HYUNDAI
HEAVY INDUSTRIES CO., LTD.
& POWER SYSTEMS

CONDUIT BOX
& COVER ASS'Y