

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	160M		Rated Output	7.5 kW 10 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	14.5 A 16.8 A 28.9 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			50% Load				
80 deg. C			75% Load				
75% Load			100% Load				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		Power Factor(p.u)				
Altitude	Less than 1000 meter		50% Load				
Relative Humidity	Less than 80 %		75% Load				
Ambient Temp.	40 deg. C (Max.)		100% Load				
Duty Type	Continuos (S1)		Speed at Full Load				
Service Factor	1.15		1170 r.p.m				
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Torque				
Bearing	Type	Anti-Friction	Full Load				
	DE/N-DE	6309ZZC3 / 6309ZZC3	Locked-rotor**				
	Lubricant	Grease(Polyrex-EM)	Breakdown**				
External Thrust	Not applicable		Moment of Inertia (J)				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Load(Max.)				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Motor				
Terminal	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Sound Pressure Level (No-load & mean value at 1m from motor)				
Box	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	64 dB(A)				
	Location	Refer to Outline Drawing	Vibration				
Application			2.2 mm/sec (r.m.s)				
Area classification	Non-Hazardous		Permissible number of				
Type of Ex-Protection	Not applicable		consecutive starts				
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		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	227B2000AB05	117 kg		
			B5	227B2020AB05	123 kg		
			V1	227B2060AB05	123 kg		
			B3/B5	227B2040AB05	123 kg		
			Main T-Box Ass'y				
			227B8008LA1				
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.

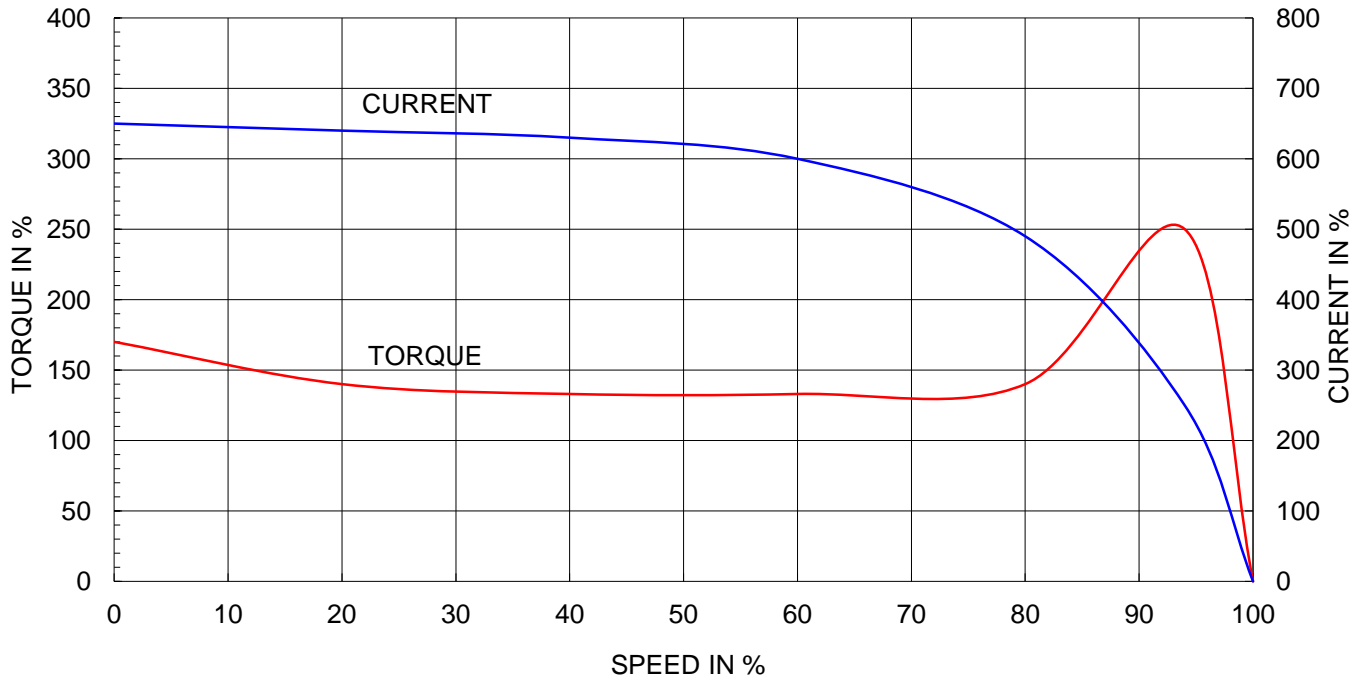
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

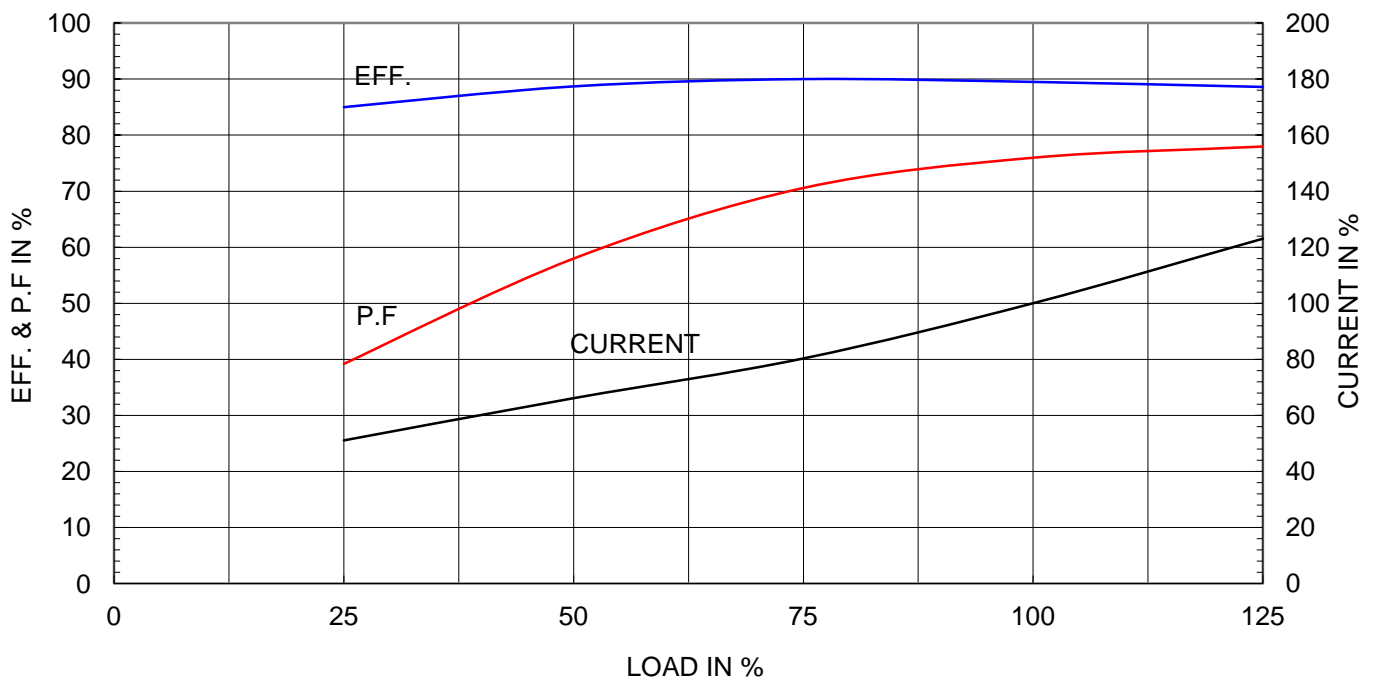
Type	:	HS
Full Load Torque	:	6.2 Kg.m
Motor moment of Inertia (J)	:	0.090 Kg.m ²
Load moment of Inertia (J)	:	15.000 Kg.m ²

7.5 kW	6 P	60 Hz	
Speed at Full Load :		1170 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	14.5A	16.8A	28.9A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





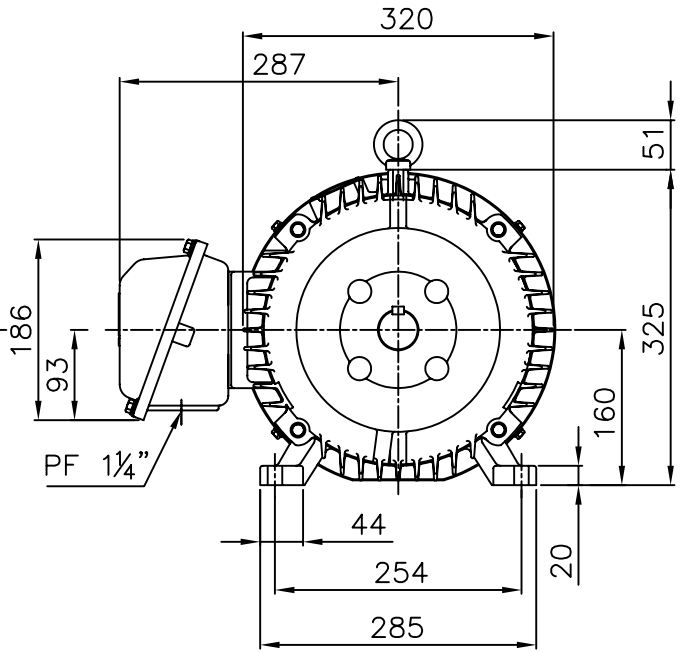
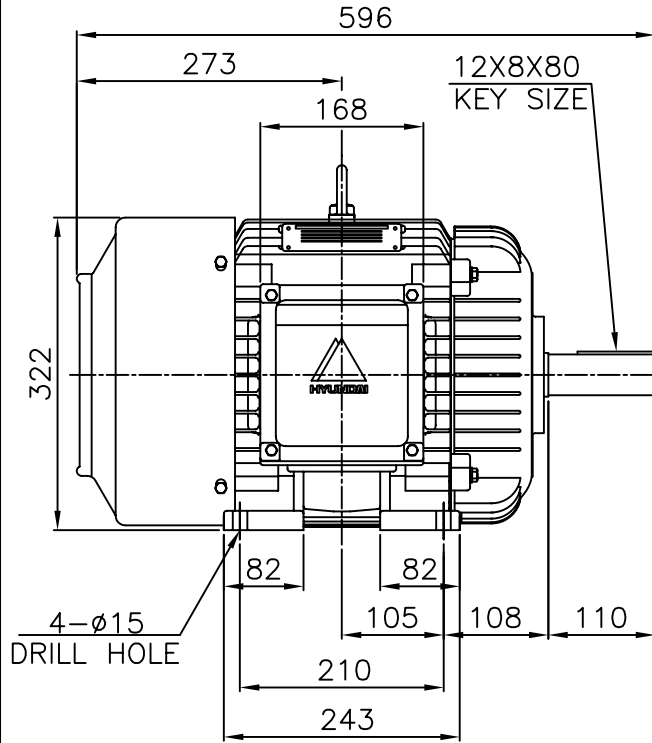
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

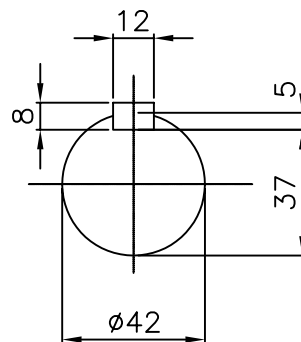
CAST IRON FRAME



NOTE

1.TOLERANCE :

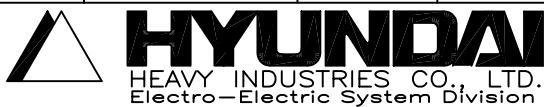
CENTER HEIGHT	160	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 15$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 42$	$\begin{matrix} +0.018 \\ +0.002 \end{matrix}$
KEYWAY WIDTH	12	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEYWAY DEPTH	5	$\begin{matrix} +0.2 \\ 0 \end{matrix}$



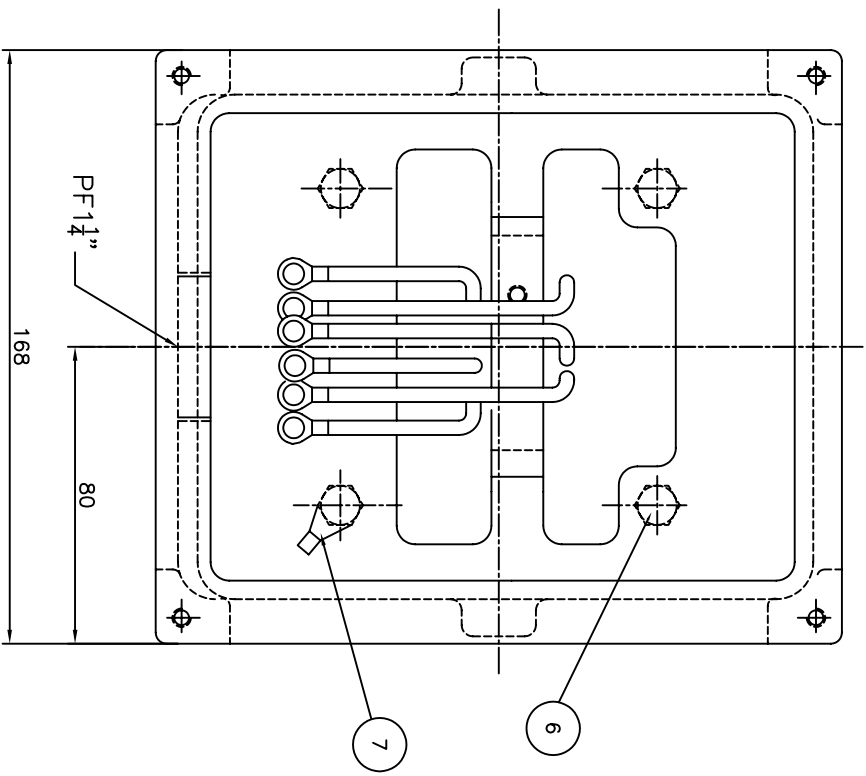
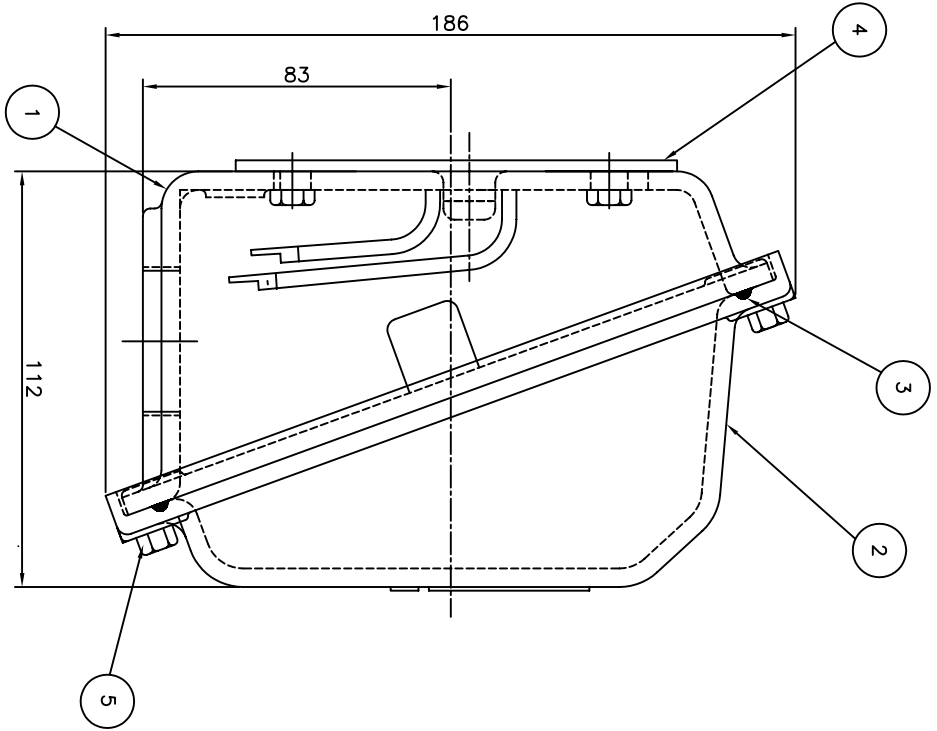
CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm
CHKD BY	Y. S. KIM	SCALE	1/8
CHKD BY	S. H. KO	PROJEC'N	3rd Angle
DSND BY	I. K. KIM	DATE	2001.10.27

SUBJECT	KS 160M	CAD PROJ \ FILE	XSDNKS\B2000AB05
TITLE	OUTLINE		



REF. NO	B2000AB05	Sheet No.	of
DWG NO	227B2000AB05	Revision No.	0



PT	DESCRIPTION	MATERIAL	DIMENSION	Q'TY
1	CONDUIT BOX	FC15	---	1
2	CONDUIT BOX COVER	FC15	---	1
3	O-RING / COVER	EPDM	φ4	1
4	BOX GASKET	NBR	---	1
5	COVER+BOX HEX BOLT	S45C	M6 X L20	4
6	BOX+FRAME HEX BOLT	S45C	M8 X L20	4
7	GROUND TERMINAL LUG	CU	---	1

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.Y.S	UNIT	MM				
	CHK'D BY KO.S.H	SCALE	1:1				
	CHK'D BY Y.J.HWANG	PROJEC'N	3*4 (3rd Angle)				
	DSND BY	DATE	2005.02.16				
	TITLE		TERMINAL BOX ASSEMBLY				
	REF. NO	227B8008LA1		Sheet No.	of		
	DWG NO	227B8008LA1		Revision No.	0		

