



## AC INDUCTION MOTOR DATA SHEET

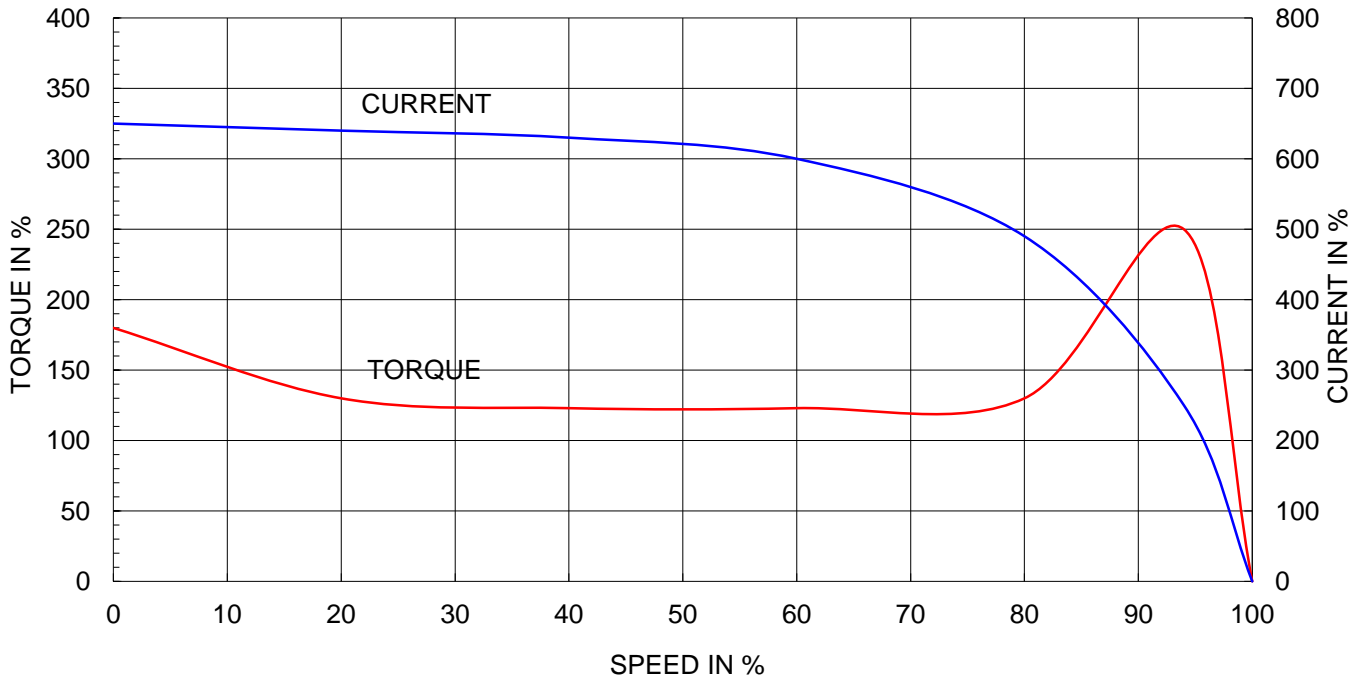
Model No.or RFQ No.		Item No.		Rev. No. [ 0 ]										
Project Name		Project No.		Quantity sets										
GENERAL SPECIFICATION			PERFORMANCE DATA											
Frame Size	160M		Rated Output	15 kW 20 HP										
Type	HS		Number of Poles	2										
Enclosure(Protection)	Totally Enclosed ( IP55 )		Rotor 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	25.1 A 29.0 A 50.2 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    89.7 % 75% Load    90.7 % 100% Load    90.2 %										
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		Power Factor(p.u)	50% Load    0.800 75% Load    0.857 100% Load    0.870										
Altitude	Less than 1000 meter		Speed at Full Load	3535 r.p.m										
Relative Humidity	Less than 80 %		Torque	Full Load    4.1 kg-m Locked-rotor**    180 % Breakdown**    250 %										
Ambient Temp.	40 deg. C (Max.)		Moment of Inertia (J)	Load(Max.)    2.300 kg-m <sup>2</sup> Motor    0.049 kg-m <sup>2</sup>										
Duty Type	Continuos ( S1 )		Sound Pressure Level (No-load & mean value at 1m from motor)	79 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.OPB5.4/5.5(VL-451)									
	DE/N-DE	6309ZZC3 / 6309ZZC3	SUBMITTAL DRAWING											
	Lubricant	Grease(Polyrex-EM)	Outline Dimension Drawing \ Motor Weight(Approx.)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>B3</td> <td>227B2000AB05</td> <td>117 kg</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		B3	227B2000AB05	117 kg						
B3	227B2000AB05	117 kg												
External Thrust	Not applicable		Main T-Box Ass'y	227B8008LA1										
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		REMARK											
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	High Efficiency											
Application														
Area classification	Non-Hazardous		* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise											
Type of Ex-Protection	Not applicable													
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		Date	DSND	CHKD	CHKD	APPD							
ACCESSORIES			2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM							
SPARE PARTS			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.											

HHI W230-131-1 \* In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

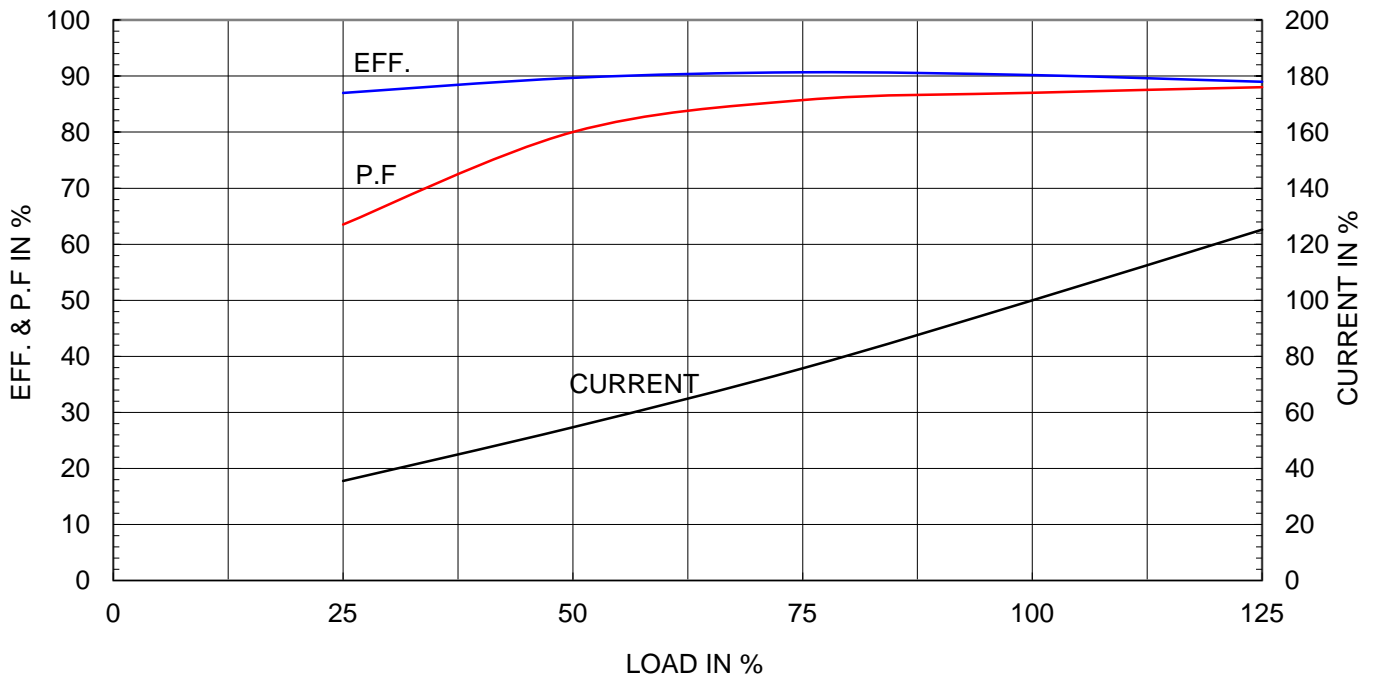
Type	:	HS
Full Load Torque	:	4.1 Kg.m
Motor moment of Inertia (J)	:	0.049 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	2.300 Kg.m <sup>2</sup>

15 kW	2 P	60 Hz	
Speed at Full Load :		3535 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	25.1A	29.0A	50.2A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





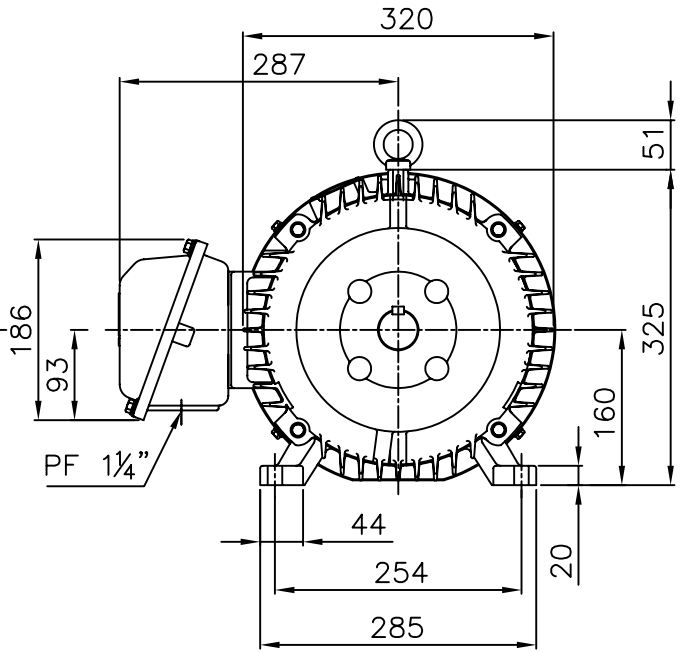
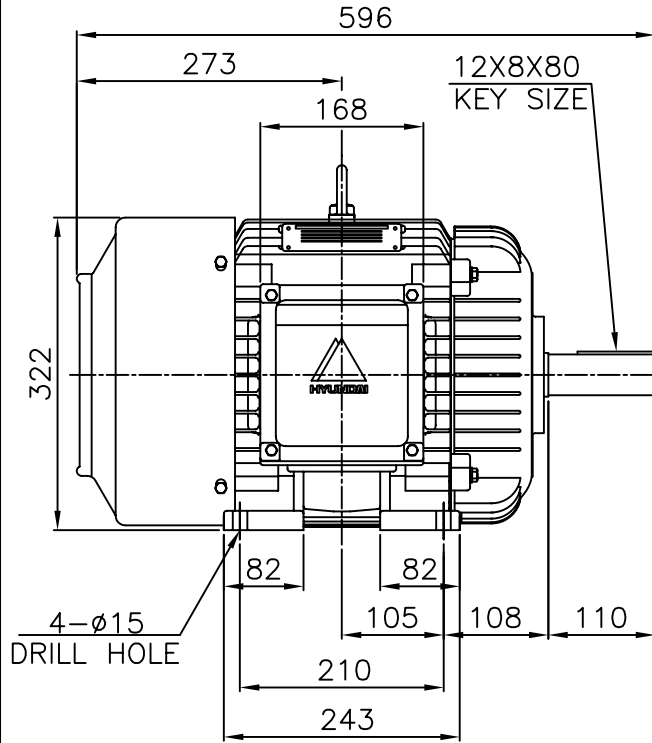
# TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

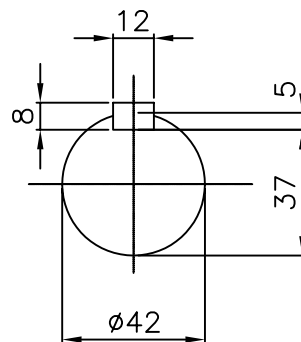
CAST IRON FRAME



NOTE

1.TOLERANCE :

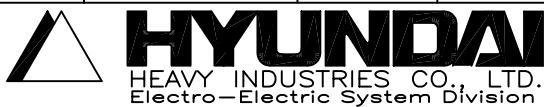
CENTER HEIGHT	160	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 15$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 42$	$\begin{matrix} +0.018 \\ +0.002 \end{matrix}$
KEYWAY WIDTH	12	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEYWAY DEPTH	5	$\begin{matrix} +0.2 \\ 0 \end{matrix}$



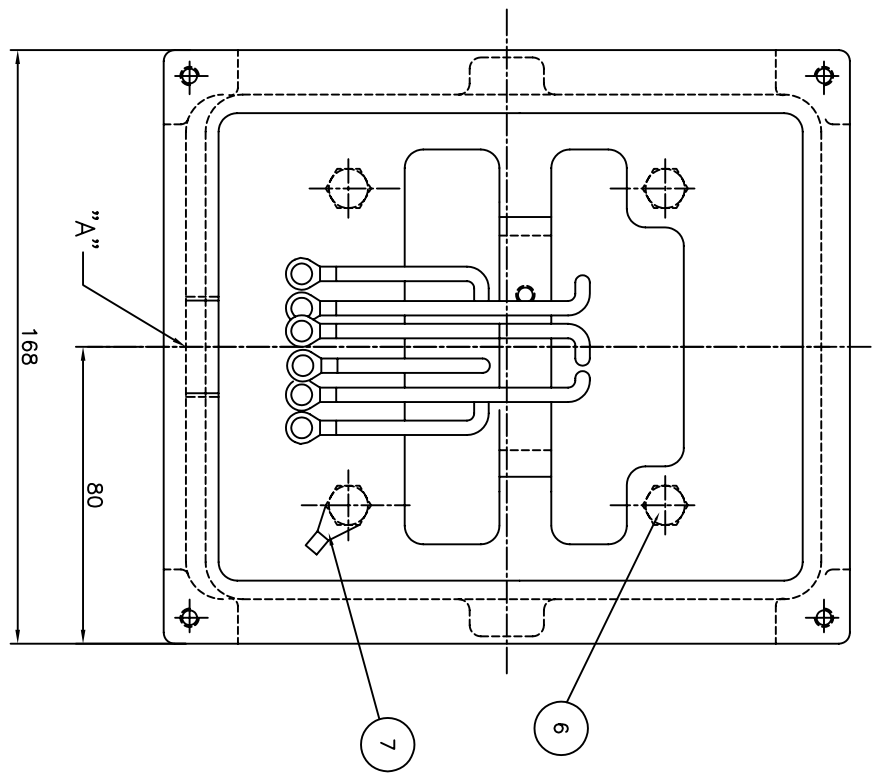
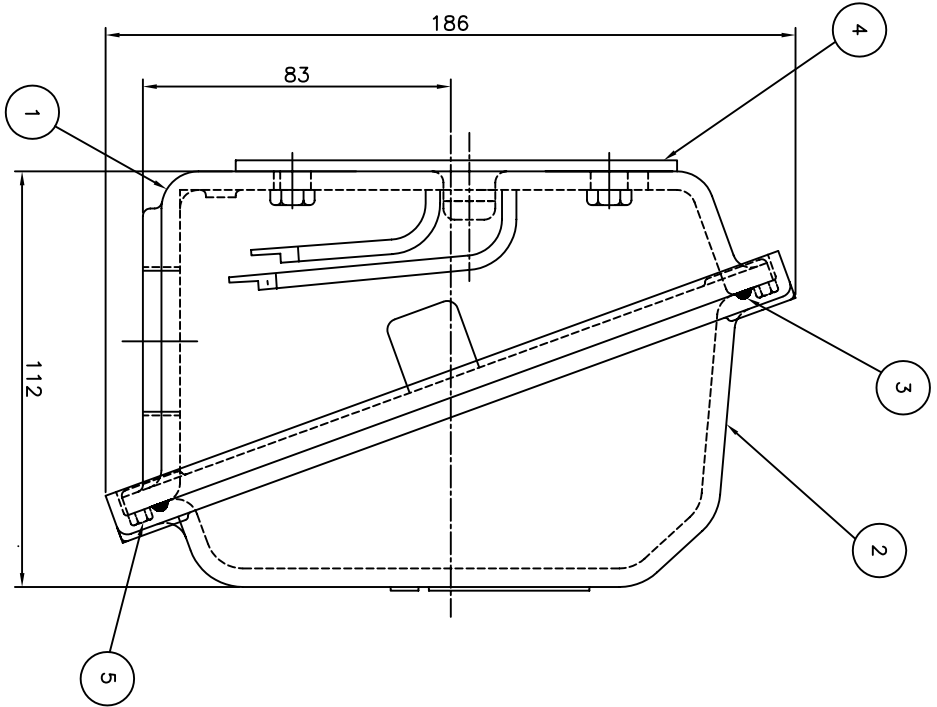
CAST IRON CONDUIT BOX

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

PT	"A"	FRAME	REMARK
1	PF 1 1/4"	160FR	---
2	PF 1 1/2"	180FR	---

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	KIM,Y.S	MM					
CHKD BY	KO,S.H	UNIT	SCALE				
CHKD BY	---	SCALE	1:1				
CHKD BY	---	PROJEC'N	3*# (3rd Angle)				
DSND BY	Y.J.HWANG	DATE	2005.02.16				
TITLE		TERMINAL BOX ASSEMBLY					
REF. NO.	227B8008LA	Sheet No. of					
DWG NO.	227B8008LA	Revision No. 0					

