



AC INDUCTION MOTOR DATA SHEET

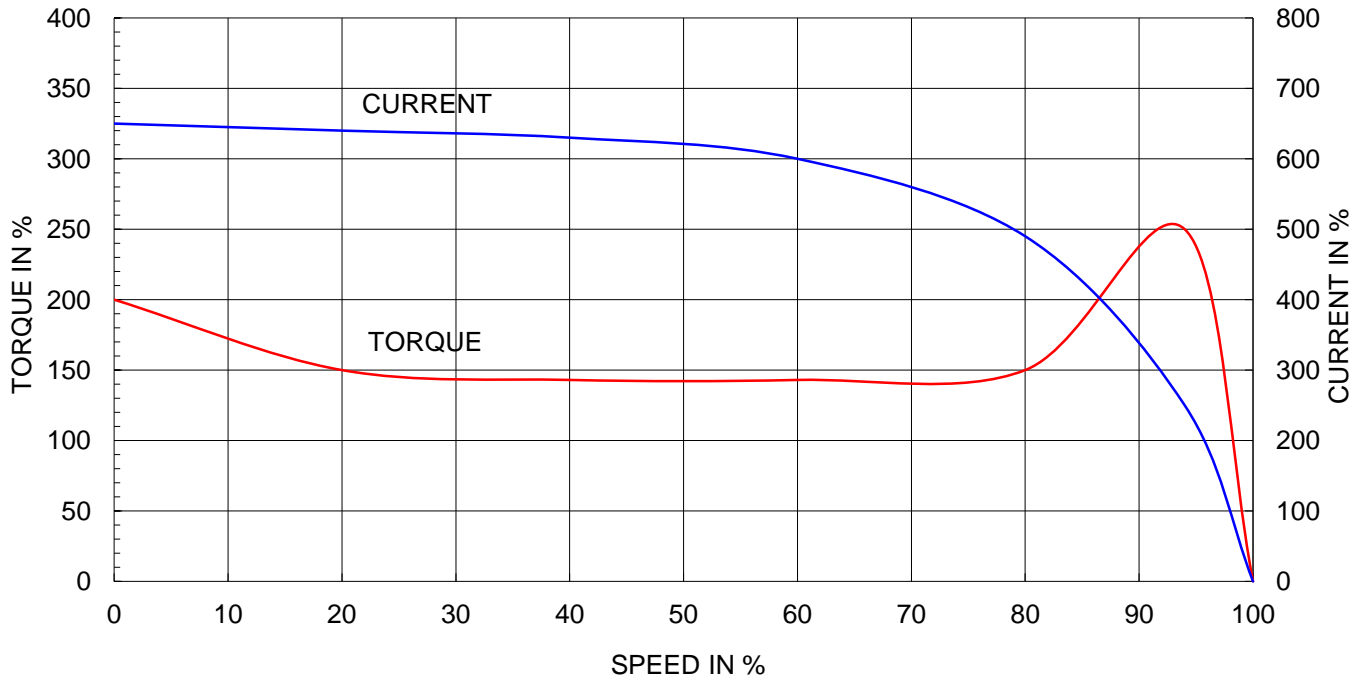
Model No.or RFQ No.		Item No.		Rev. No. [0]										
Project Name		Project No.		Quantity sets										
GENERAL SPECIFICATION			PERFORMANCE DATA											
Frame Size	160L		Rated Output	18.5 kW 25 HP										
Type	HS		Number of Poles	2										
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor 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	30.3 A 35.1 A 60.6 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 90.5 % 75% Load 91.5 % 100% Load 91.0 %										
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		Power Factor(p.u)	50% Load 0.836 75% Load 0.867 100% Load 0.880										
Altitude	Less than 1000 meter		Speed at Full Load	3535 r.p.m										
Relative Humidity	Less than 80 %		Torque	Full Load 5.1 kg-m Locked-rotor** 200 % Breakdown** 250 %										
Ambient Temp.	40 deg. C (Max.)		Moment of Inertia (J)	Load(Max.) 2.500 kg-m ² Motor 0.059 kg-m ²										
Duty Type	Continuos (S1)		Sound Pressure Level (No-load & mean value at 1m from motor)	80 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)												
External Thrust	Not applicable		Outline Dimension Drawing \ Motor Weight(Approx.)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>B3</td> <td>227B2000AB06</td> <td>135 kg</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		B3	227B2000AB06	135 kg						
B3	227B2000AB06	135 kg												
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Main T-Box Ass'y	227B8008LA1										
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		REMARK											
Terminal	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron												
Box	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	High Efficiency											
	Location	Refer to Outline Drawing												
Application			* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise											
Area classification	Non-Hazardous													
Type of Ex-Protection	Not applicable		Date	DSND	CHKD									
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		2011-04-14	W.H.BACK	S. J. RA									
ACCESSORIES			CHKD	CHKD	APPD									
SPARE PARTS														
REMARK														
High Efficiency														
* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise														
* 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.														
* In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)														

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.

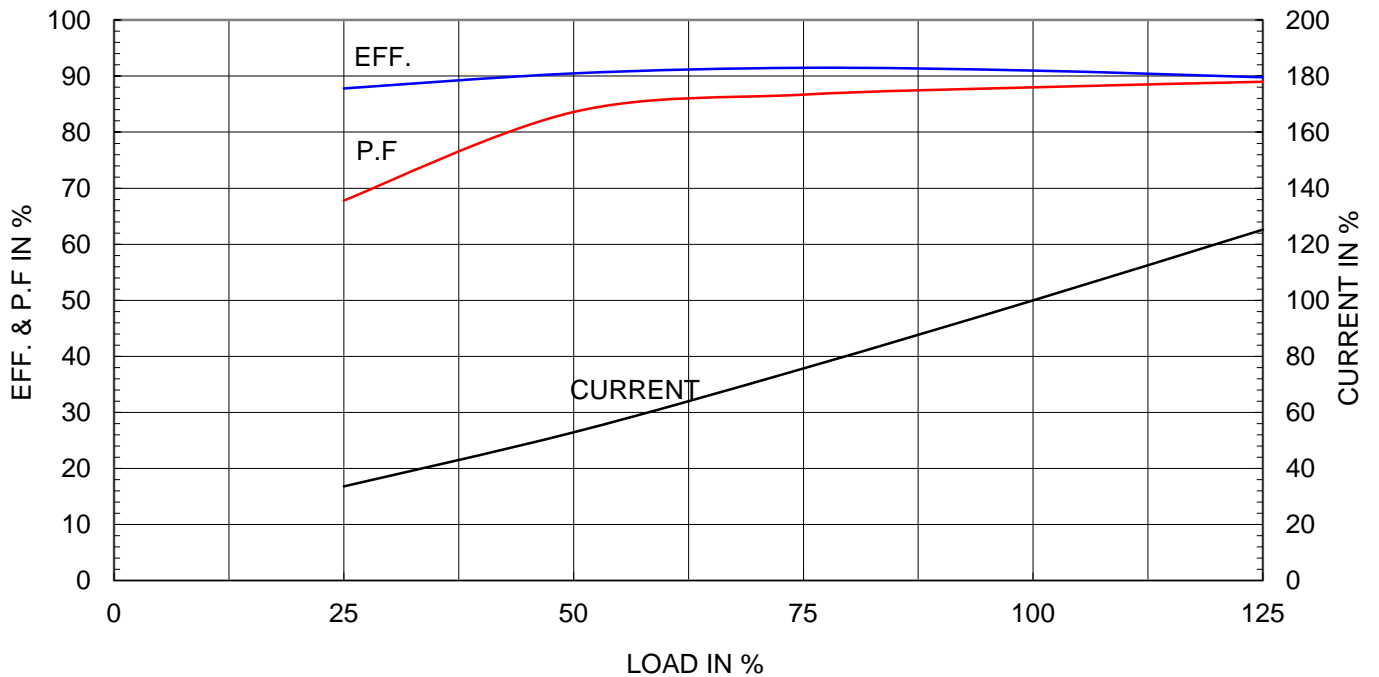
Type :	HS	
Full Load Torque :	5.1	Kg.m
Motor moment of Inertia (J) :	0.059	Kg.m ²
Load moment of Inertia (J) :	2.500	Kg.m ²

18.5 kW	2 P	60 Hz	
Speed at Full Load :		3535 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	30.3A	35.1A	60.6A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





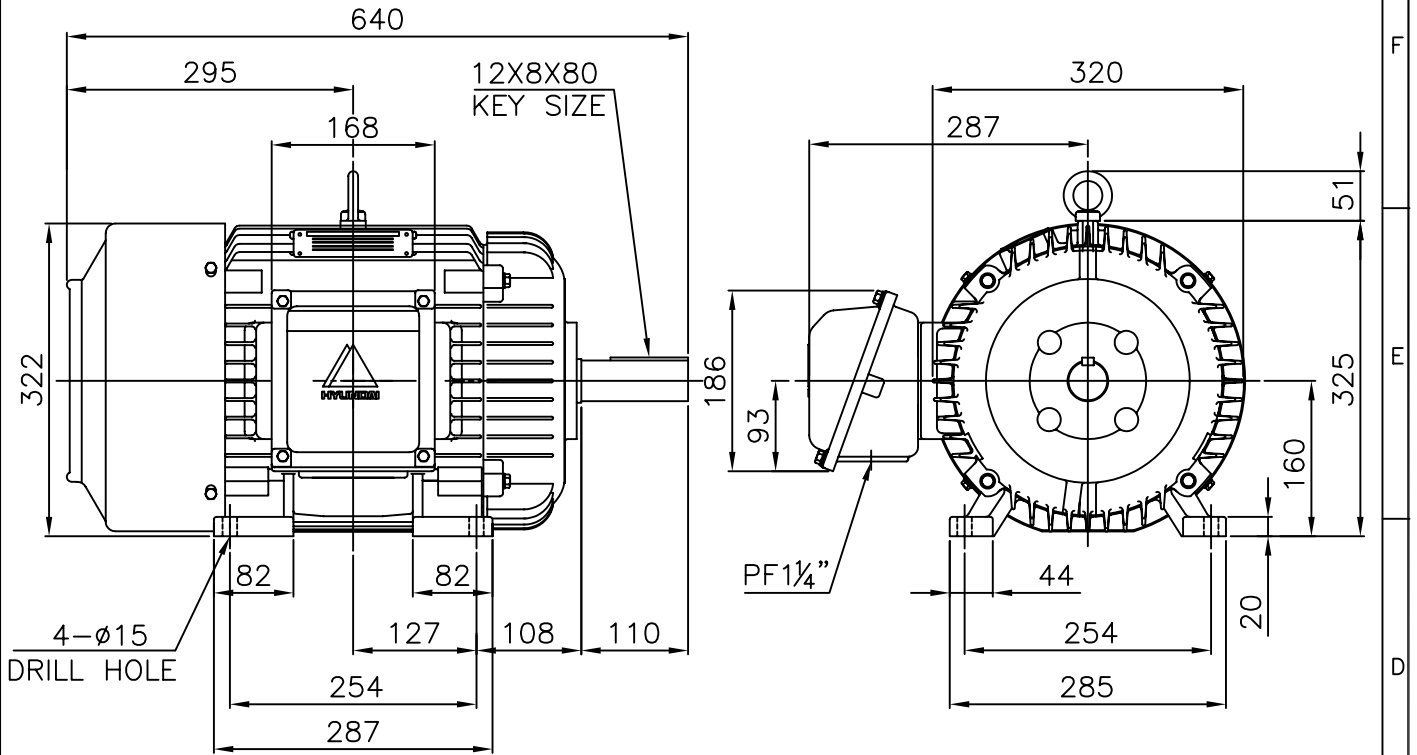
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

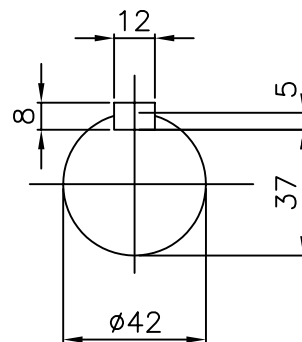
CAST IRON FRAME



NOTE

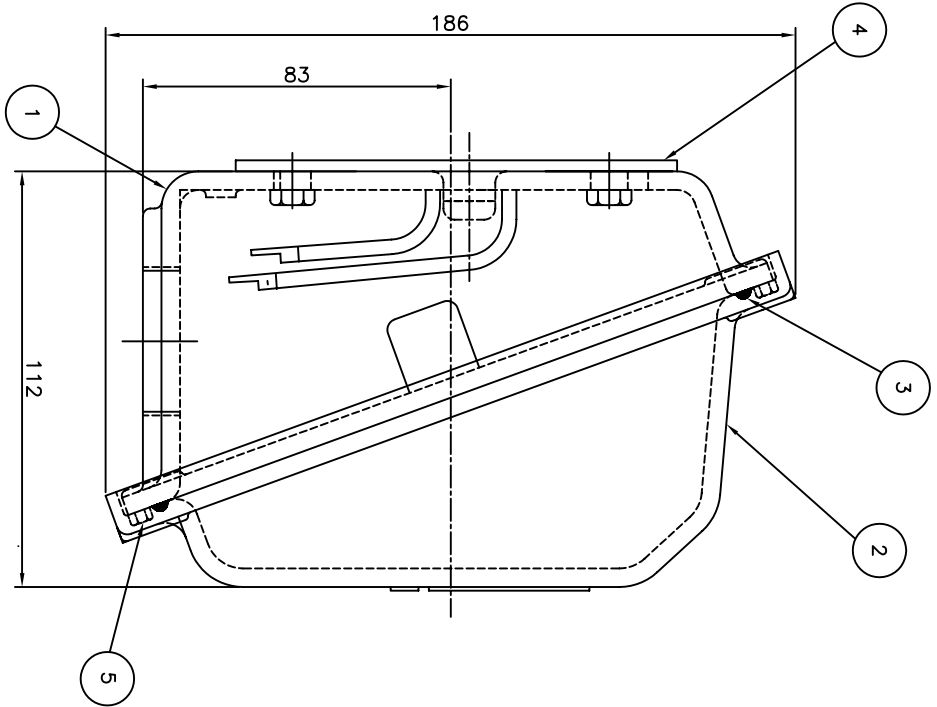
1.TOLERANCE :

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	$\begin{matrix} +0.2 \\ 0 \end{matrix}$

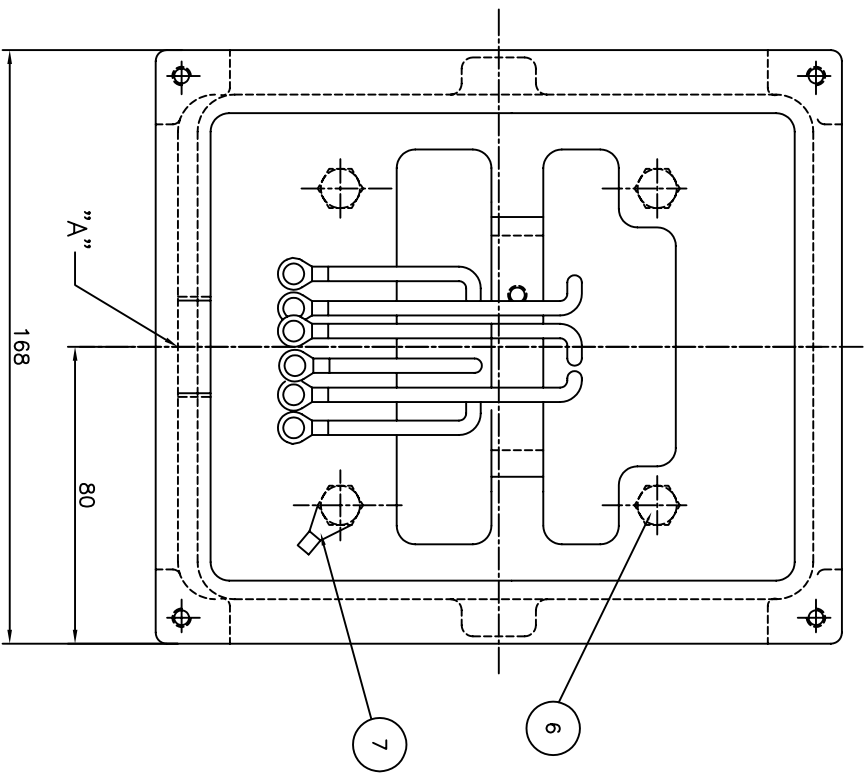


CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 160L	CAD PROJ \ FILE
CHKD BY	Y. S. KIM	SCALE	1/8			XSDNKS\B2000AB06
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	I. K. KIM	DATE	2002.10.27			
				REF. NO	B2000AB06	Sheet No. of
				DWG NO	227B2000AB06	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	REV'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	---	PROJEC'N	3*4 (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				

