

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	180L	Rated Output	30 kW 40 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	47.2 A	54.6 A 94.3 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		91.2 %	
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load		92.2 %	
Altitude	Less than 1000 meter	100% Load		91.7 %	
Relative Humidity	Less than 80 %	Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)	50% Load		0.865	
Duty Type	Continuos (S1)	75% Load		0.900	
Service Factor	1.15	100% Load		0.910	
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	3540 r.p.m		
Bearing	Type	Anti-Friction			
	DE/N-DE	6212ZZC3 / 6310ZZC3			
	Lubricant	Grease(Polyrex-EM)			
External Thrust	Not applicable				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Torque			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	Full Load		8.3 kg-m	
Terminal	Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Locked-rotor**		150 %	
Box	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Breakdown**	
	Location	Refer to Outline Drawing			
Application		Moment of Inertia (J)			
Area classification	Non-Hazardous	Load(Max.)		3.000 kg-m ²	
Type of Ex-Protection	Not applicable	Motor		0.088 kg-m ²	
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)	Sound Pressure Level (No-load & mean value at 1m from motor)			
		86 dB(A)			
		Vibration			
		2.2 mm/sec (r.m.s)			
		Permissible number of consecutive starts		Cold 3 times	
				Hot 2 times	
		Paint	Munsell No.	4.OPB5.4/5.5(VL-451)	

ACCESSORIES	SUBMITTAL DRAWING												
	Outline Dimension Drawing \ Motor Weight(Approx.)												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">B3</td> <td style="width: 40%;">227B2000AB08</td> <td style="width: 40%; text-align: center;">181 kg</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	B3	227B2000AB08	181 kg									
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	Main T-Box Ass'y 227B8008LA2												

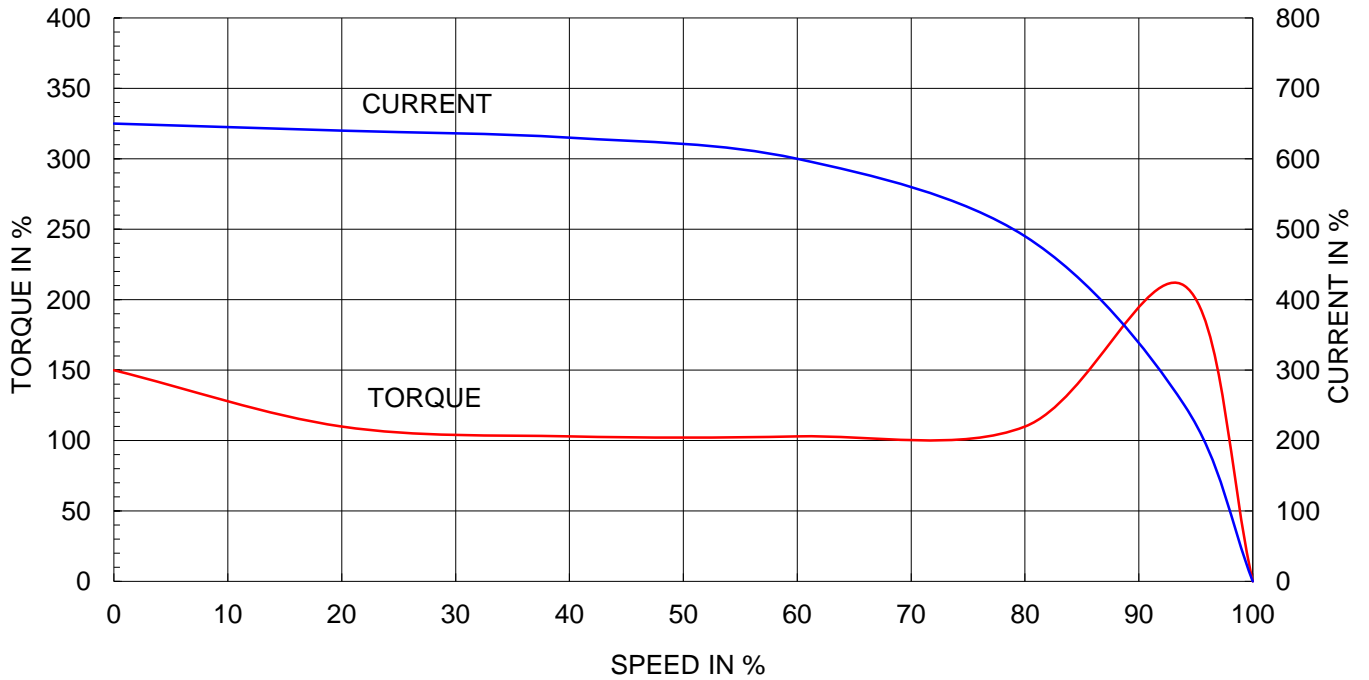
SPARE PARTS	REMARK										
	High Efficiency										
	* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Date</td> <td style="width: 15%;">DSND</td> <td style="width: 15%;">CHKD</td> <td style="width: 15%;">CHKD</td> <td style="width: 15%;">APPD</td> </tr> <tr> <td>2011-04-14</td> <td>W.H.BACK</td> <td>S. J. RA</td> <td>O. J. KIM</td> <td>J. H. KIM</td> </tr> </table>	Date	DSND	CHKD	CHKD	APPD	2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM
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.

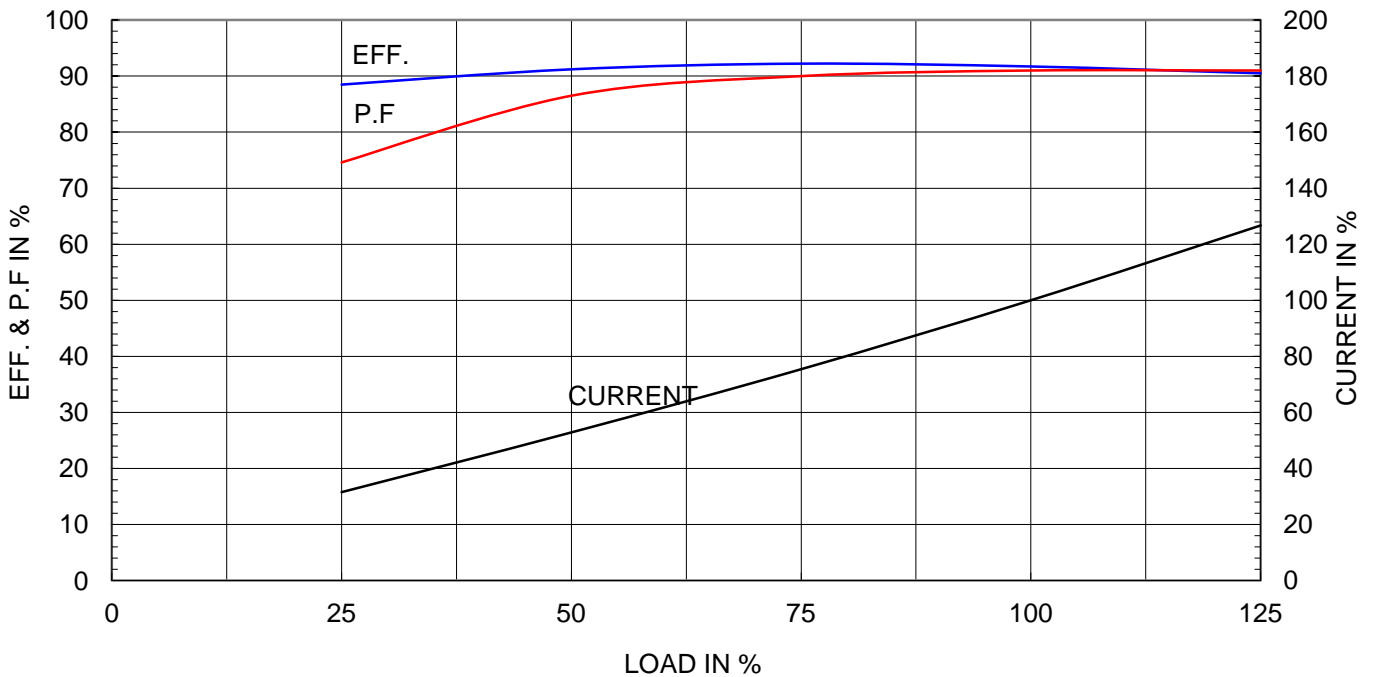
Type	:	HS
Full Load Torque	:	8.3 Kg.m
Motor moment of Inertia (J)	:	0.088 Kg.m ²
Load moment of Inertia (J)	:	3.000 Kg.m ²

30 kW	2 P	60 Hz	
Speed at Full Load : 3540 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	47.2A	54.6A	94.3A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





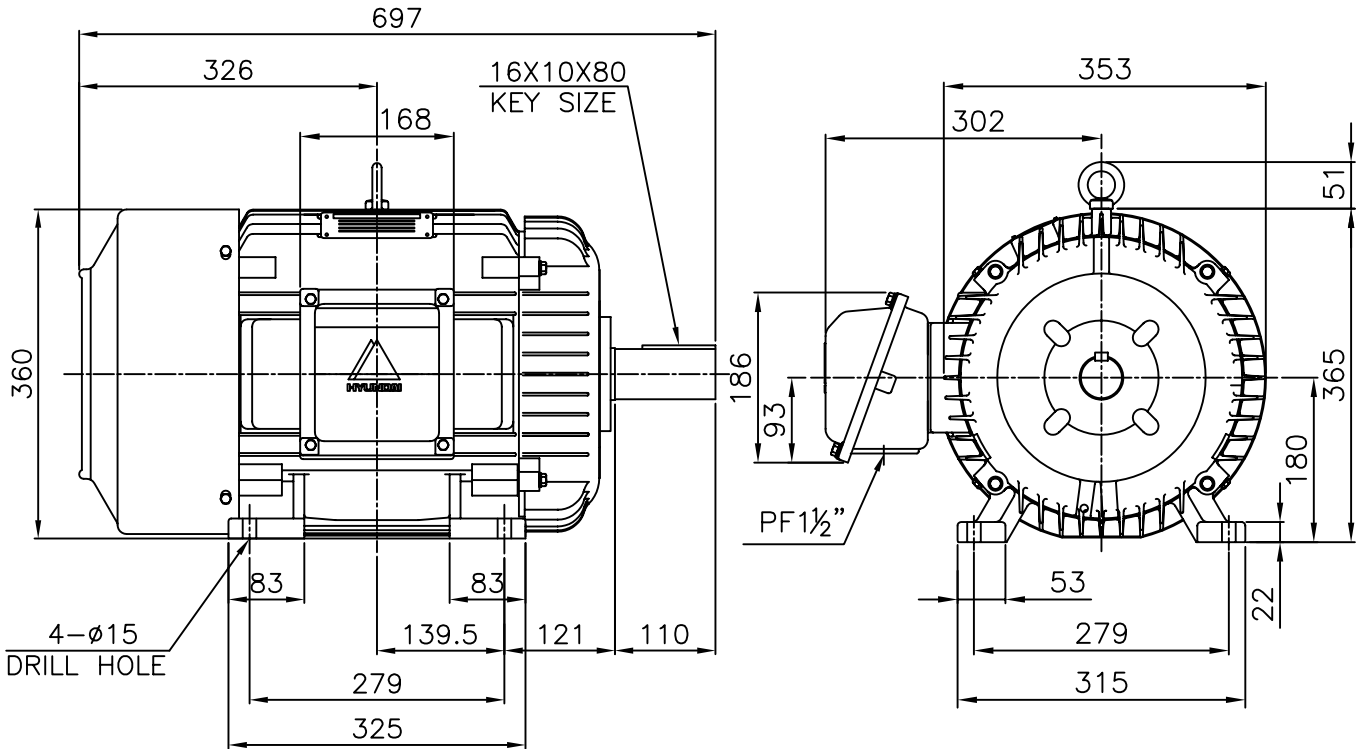
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

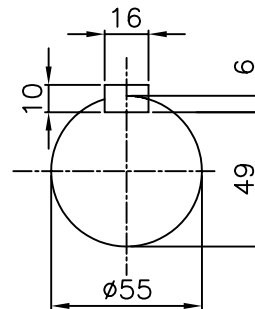
CAST IRON FRAME



NOTE

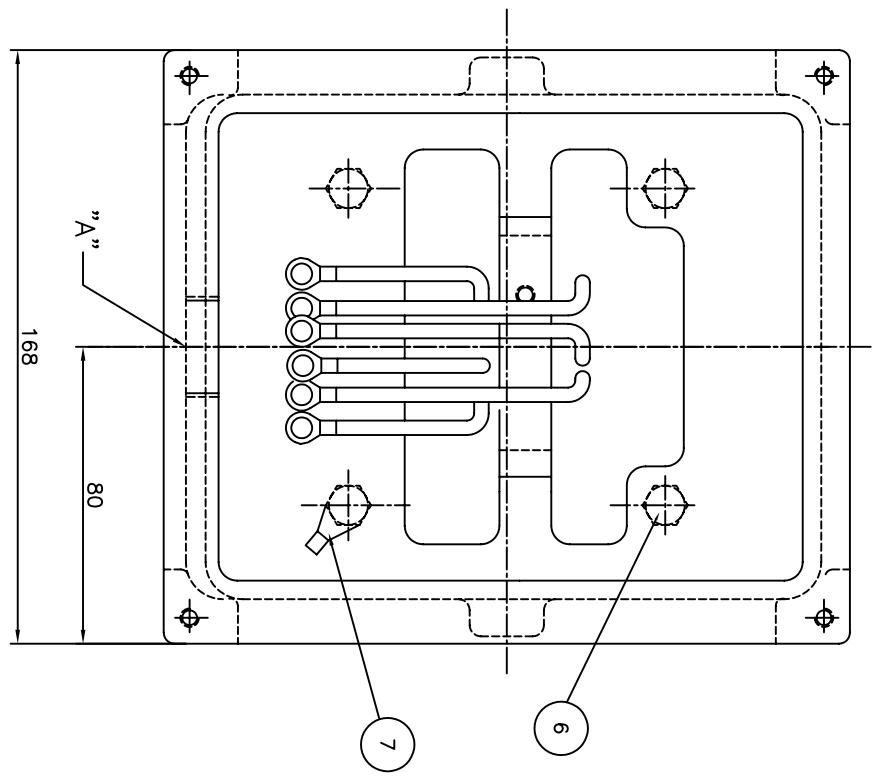
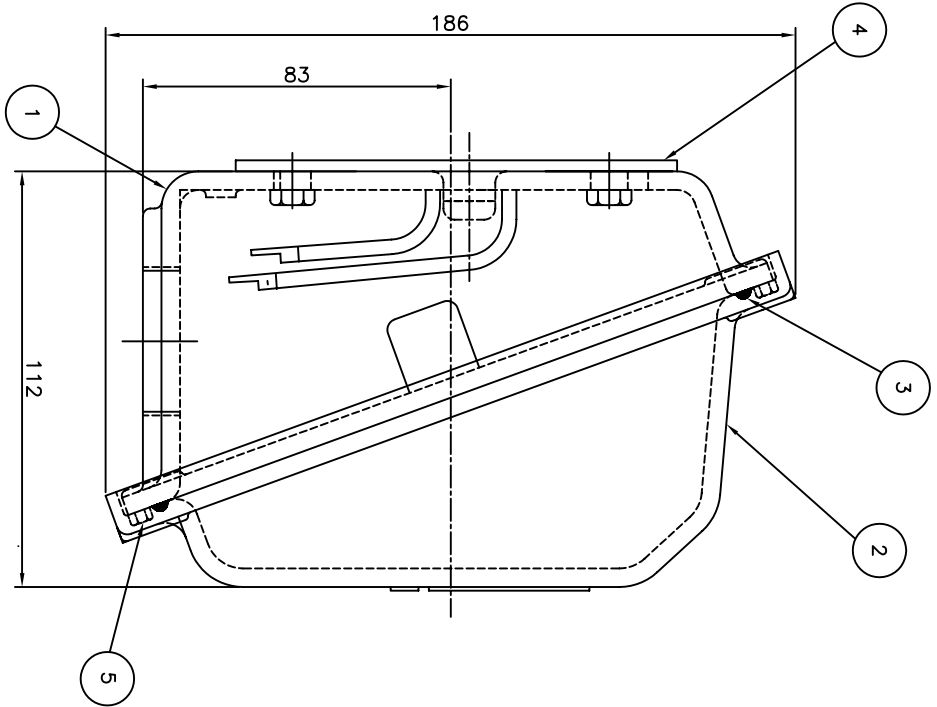
1.TOLERANCE :

CENTER HEIGHT	180	⁰ _{-0.5}
BASE HOLES	ø15	^{+0.43} ₀
SHAFT DIAMETER	ø55	^{+0.030} _{+0.011}
KEYWAY WIDTH	16	⁰ _{-0.043}
KEYWAY DEPTH	6	^{+0.2} ₀



CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 180L	CAD PROJ \ FILE
CHKD BY	Y. S. KIM	SCALE	1/8.5			XSDNKS\B2000AB08
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	I. K. KIM	DATE	2007.02.28			
				REF. NO	B2000AB08	Sheet No. of
				DWG NO	227B2000AB08	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	1:1	IEC 160/180FR	CAD PROJ \FILE	
CHKD BY	---	PROJECT N	3 * (3rd Angle)			227B8008LA	
DSND BY	Y.J.HWANG	DATE	2005.02.16				
TITLE				REF. NO	227B8008LA	Sheet No.	
TERMINAL BOX ASSEMBLY				DWG NO	227B8008LA	Revision No.	0

