



AC INDUCTION MOTOR DATA SHEET

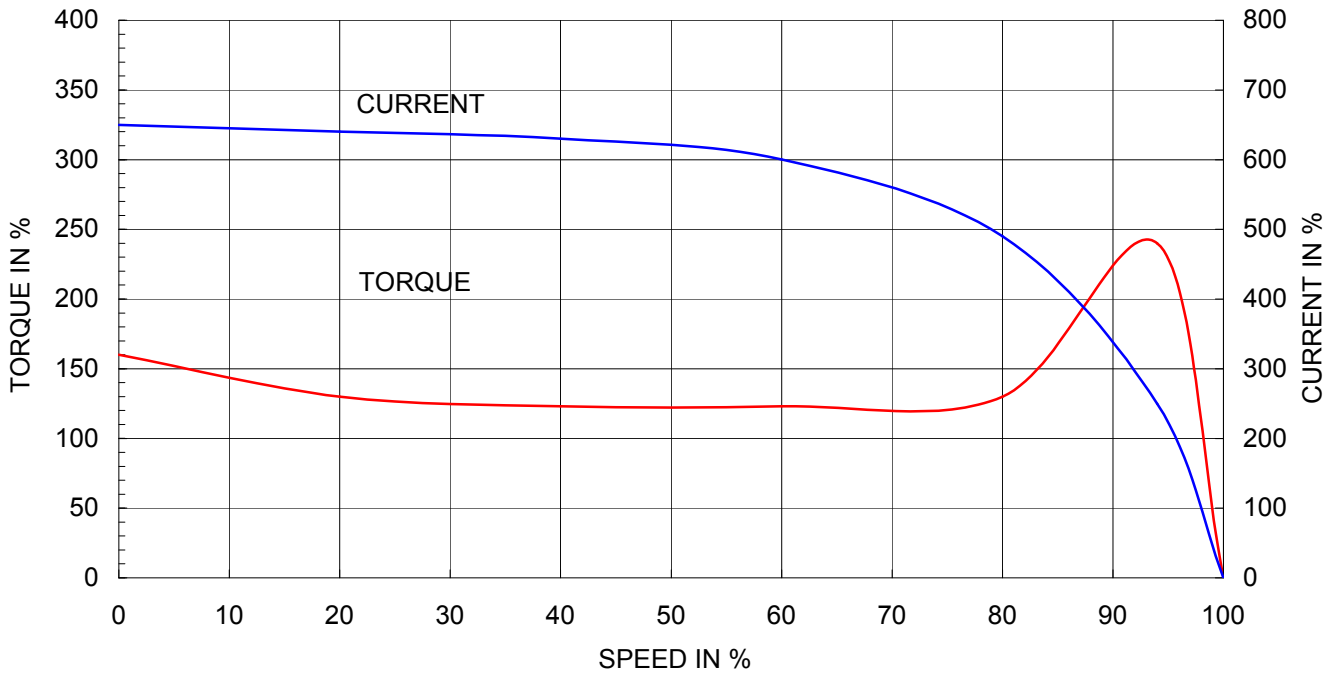
Model No.or RFQ No.		Item No.	Rev. No.	[0]		
Project Name		Project No.	Quantity	sets		
GENERAL SPECIFICATION		PERFORMANCE DATA				
Frame Size	180M	Rated Output	18.5 kW	25 HP		
Type	HS	Number of Poles	4			
Enclosure(Protection)	Totally Enclosed (IP55)	Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)	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	31.7 A 36.7 A 63.3 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	91.7 %			
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load	92.6 %			
Altitude	Less than 1000 meter	100% Load	92.4 %			
Relative Humidity	Less than 80 %	Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)	50% Load	0.722			
Duty Type	Continuos (S1)	75% Load	0.770			
Service Factor	1.15	100% Load	0.830			
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	1775 r.p.m			
Bearing	Type	Anti-Friction	Torque			
	DE/N-DE	6310ZZC3 / 6310ZZC3	Full Load	10.2 kg·m		
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**	160 %		
External Thrust	Not applicable	Breakdown**	240 %			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Moment of Inertia (J)				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	Load(Max.)	13.750 kg·m ²			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor	0.166 kg·m ²		
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)			
Location	Refer to Outline Drawing	77 dB(A)				
Application		Vibration				
Area classification	Non-Hazardous	2.2 mm/sec (r.m.s)				
Type of Ex-Protection	Not applicable	Permissible number of				
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)	consecutive starts	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	227B2000AB07	177 kg		
		B5	227B2020AB07	189 kg		
		V1	227B2060AB07	189 kg		
		B3/B5	227B2040AB07	189 kg		
		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				
		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.

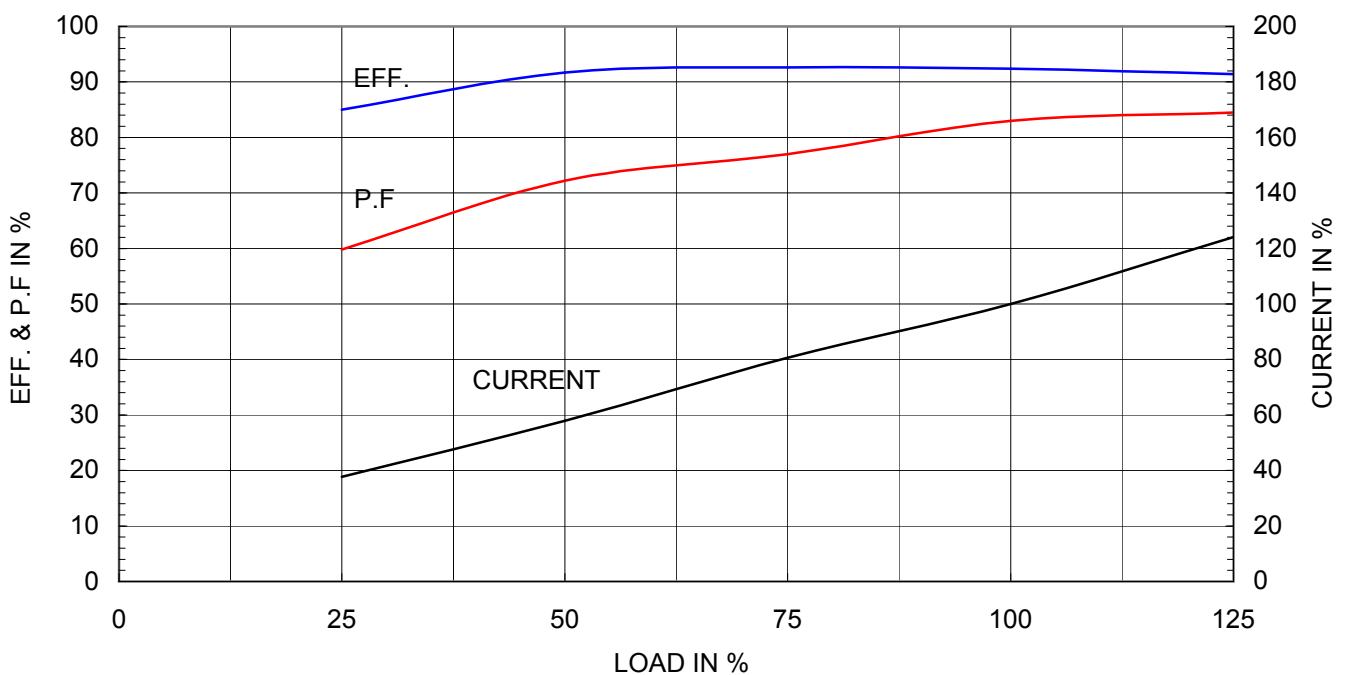
Type	:	HS
Full Load Torque	:	10.2 Kg.m
Motor moment of Inertia (J)	:	0.166 Kg.m ²
Load moment of Inertia (J)	:	13.750 Kg.m ²

18.5 kW	4 P	60 Hz	
Speed at Full Load :		1775 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	31.7A	36.7A	63.3A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





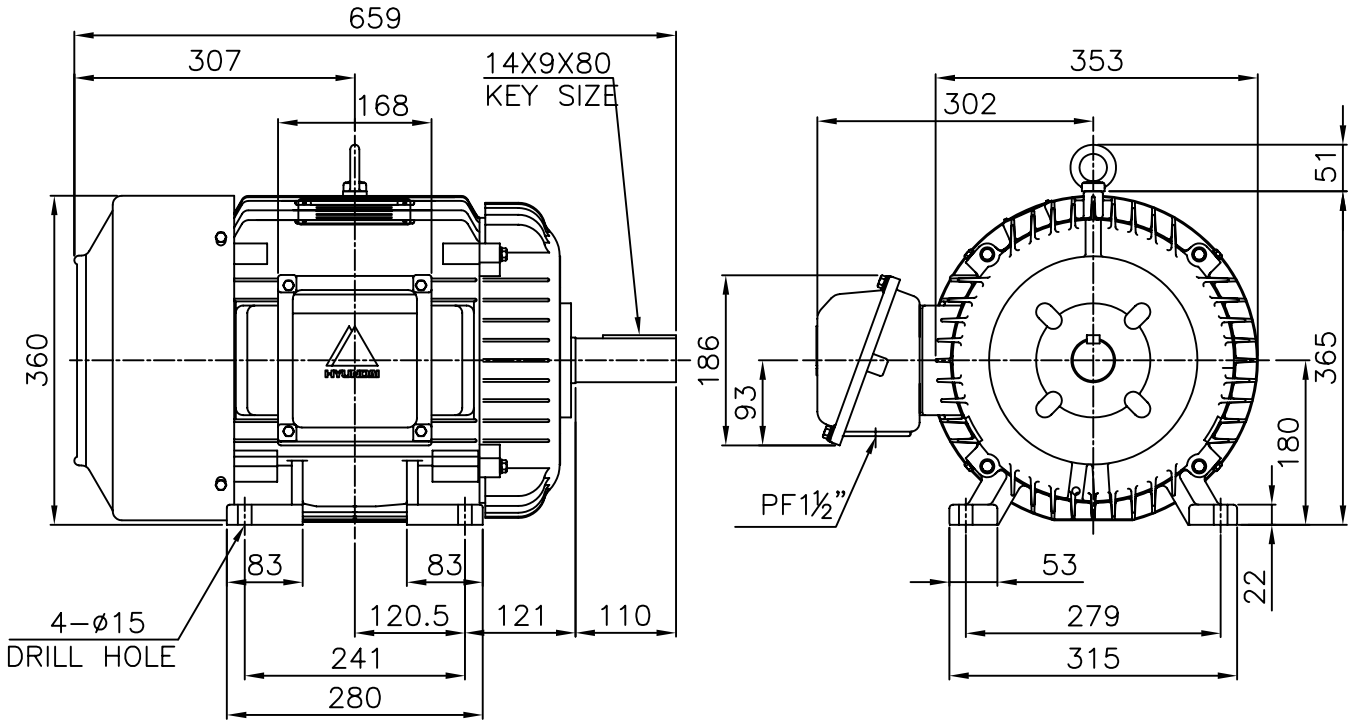
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL,HLS

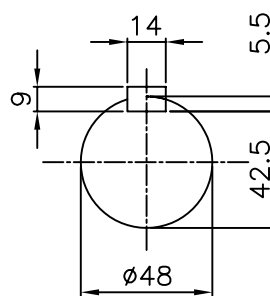
CAST IRON FRAME



NOTE

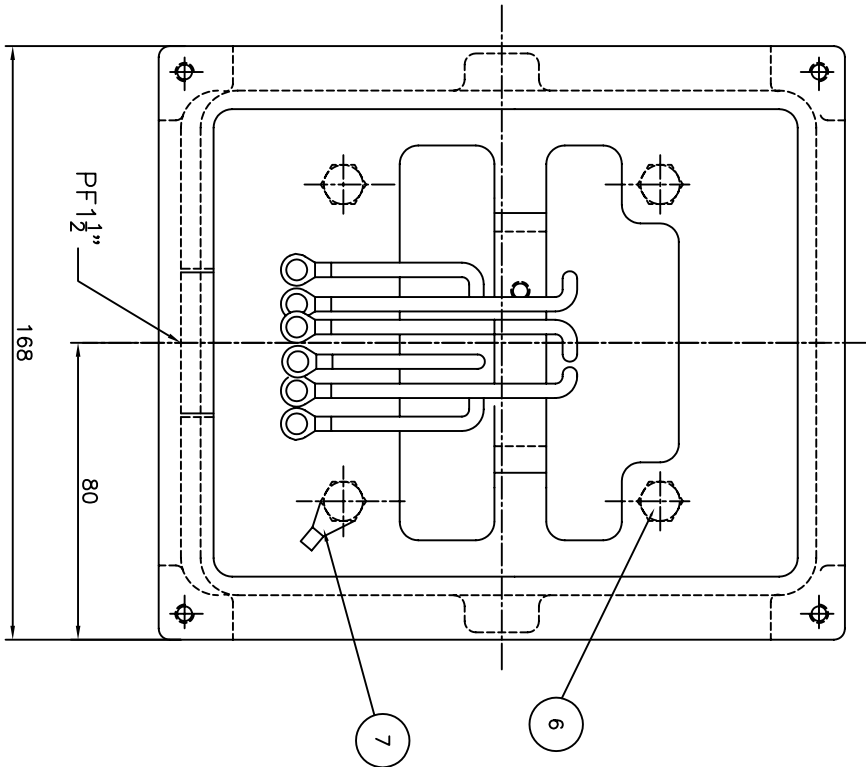
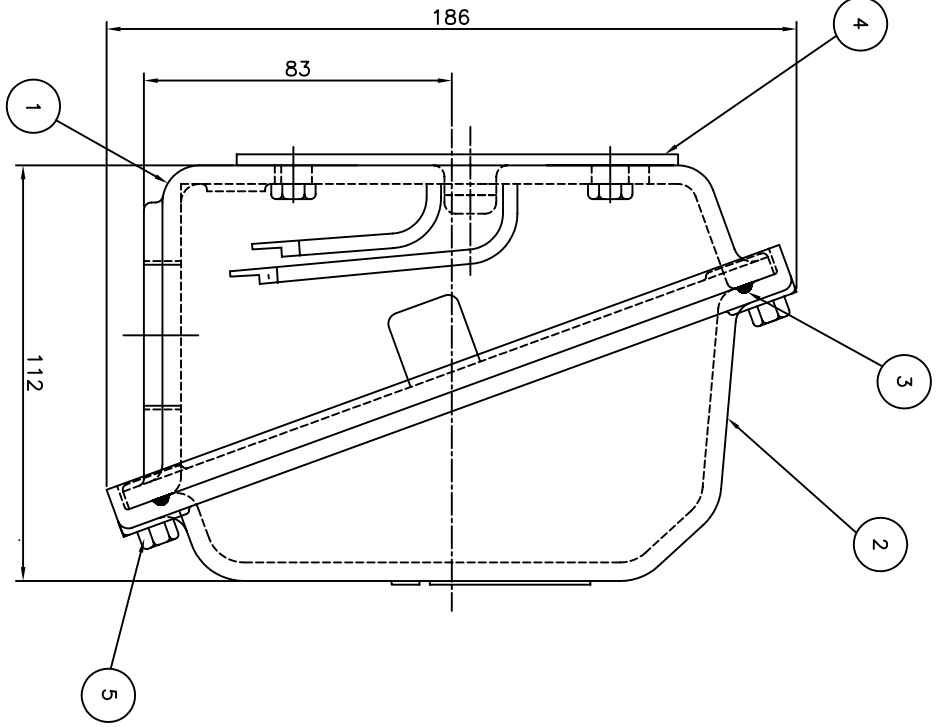
1.TOLERANCE :

CENTER HEIGHT	180	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 15$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 48$	$\begin{matrix} +0.018 \\ +0.002 \end{matrix}$
KEYWAY WIDTH	14	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEYWAY DEPTH	5.5	$\begin{matrix} +0.2 \\ 0 \end{matrix}$



CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 180M	CAD PROJ \ FILE
CHKD BY	Y. S. KIM	SCALE	1/8.5			XSDNKS\B2000AB07
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	I. K. KIM	DATE	2002.10.26			
				REF. NO	B2000AB07	Sheet No. of
				DWG NO	227B2000AB07	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	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.	227B8008LA2	Sheet No. of					
DWG NO.	227B8008LA2	Revision No.		0			

