

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					
Type		HS					
Enclosure(Protection)		Totally Enclosed (IP55)					
Method of Cooling		IC411(FC)					
Rated Frequency		60 Hz					
Number of Phases		3					
Insulation Class		☒ F ☐ B ☐ H					
Temp. Rise at full load (by resistance method)		at 1.0 S.F 80 deg. C					
Motor Location		☒ Indoor ☐ Outdoor					
Altitude		Less than 1000 meter					
Relative Humidity		Less than 80 %					
Ambient Temp.		40 deg. C (Max.)					
Duty Type		Continuos (S1)					
Service Factor		1.15					
Mounting		☒ B3 ☐ B5 ☐ V1 ☐ B3/B5					
Bearing	Type	Anti-Friction					
	DE/N-DE	6310ZZC3 / 6310ZZC3					
	Lubricant	Grease(Polyrex-EM)					
External Thrust		Not applicable					
Coupling Method		☒ Direct ☐ V-Belt					
Shaft Extension		☒ Single ☐ Double					
Terminal Box	Main	☐ Steel ☒ Cast Iron					
	Aux.	☐ Yes ☒ No					
Location		Refer to Outline Drawing					
Application							
Area classification		Non-Hazardous					
Type of Ex-Protection		Not applicable					
Applicable Standard		KS,IEC,NEMA MG1 Part30(Vpeak)					
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B2000AB07	177 kg		
			B5		kg		
			V1		kg		
			B3/B5		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

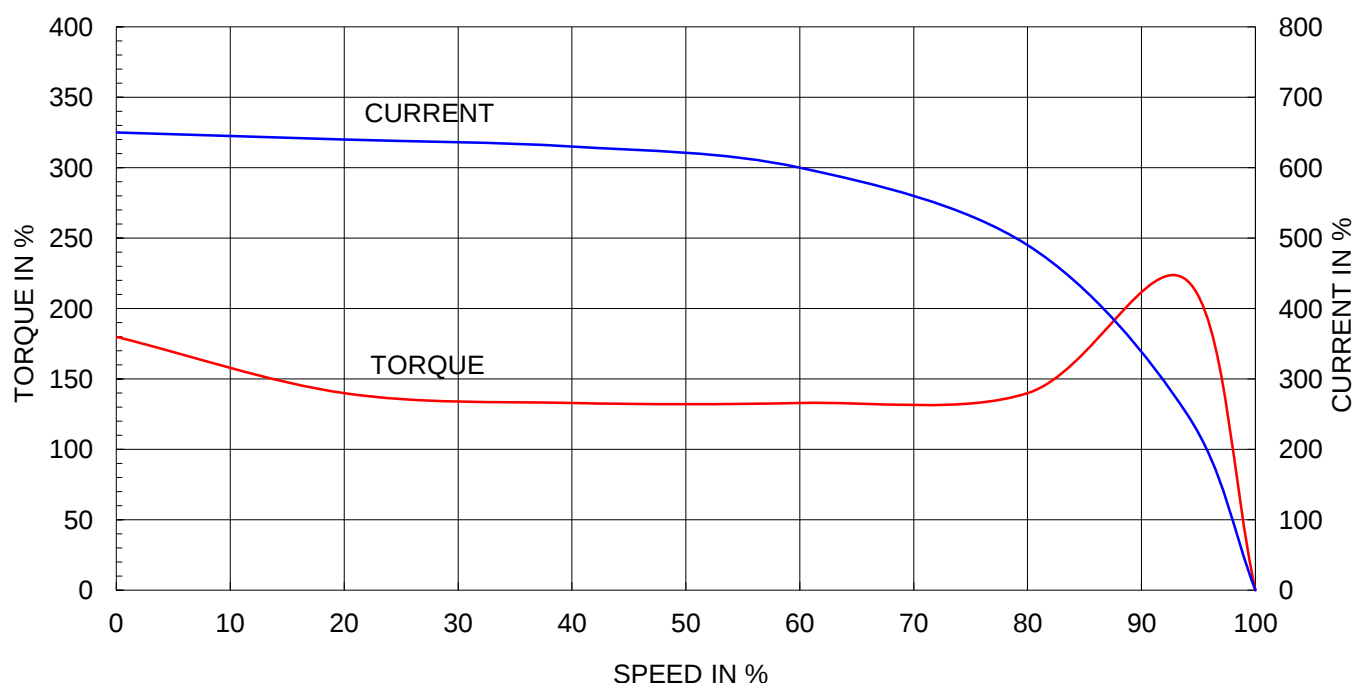
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed 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.

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)

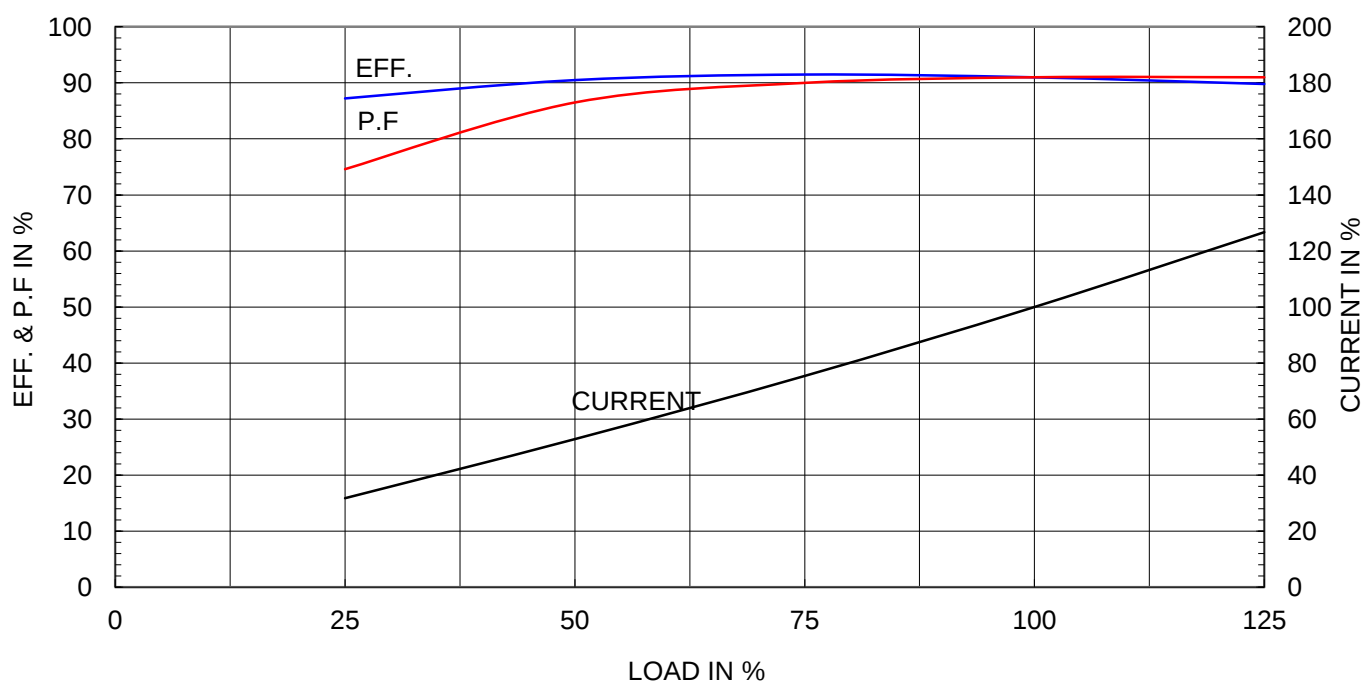
Type	:	HS
Full Load Torque	:	6.1 Kg.m
Motor moment of Inertia (J)	:	0.080 Kg.m ²
Load moment of Inertia (J)	:	2.850 Kg.m ²

22 kW		2 P		60 Hz	
Speed at Full Load :				3540 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	34.9A	40.4A	69.7A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





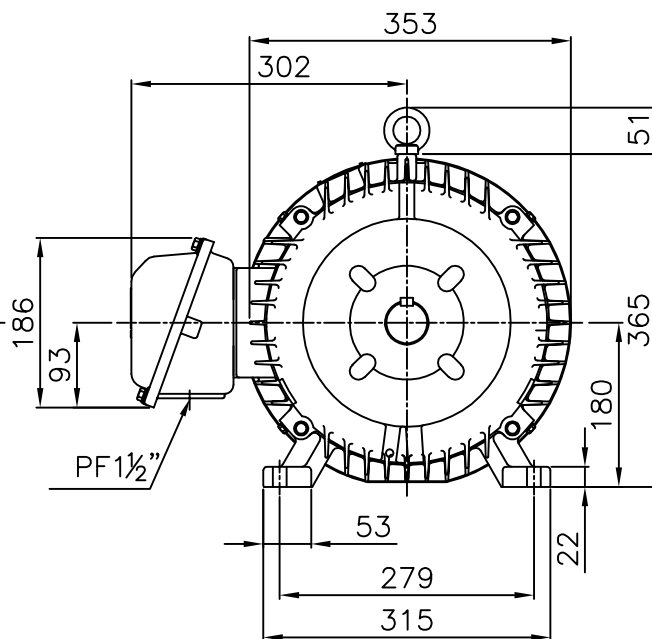
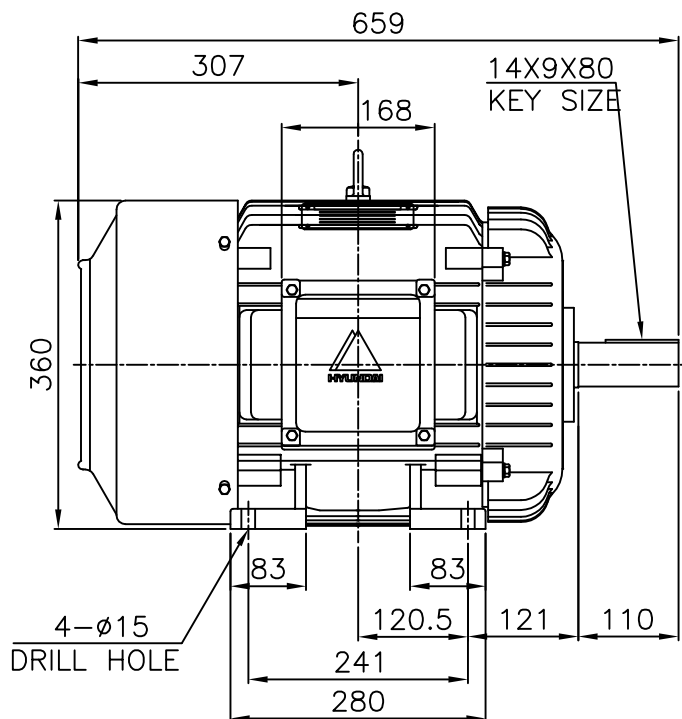
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL,HLS

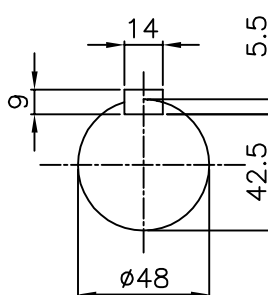
CAST IRON FRAME



NOTE

1.TOLERANCE :

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



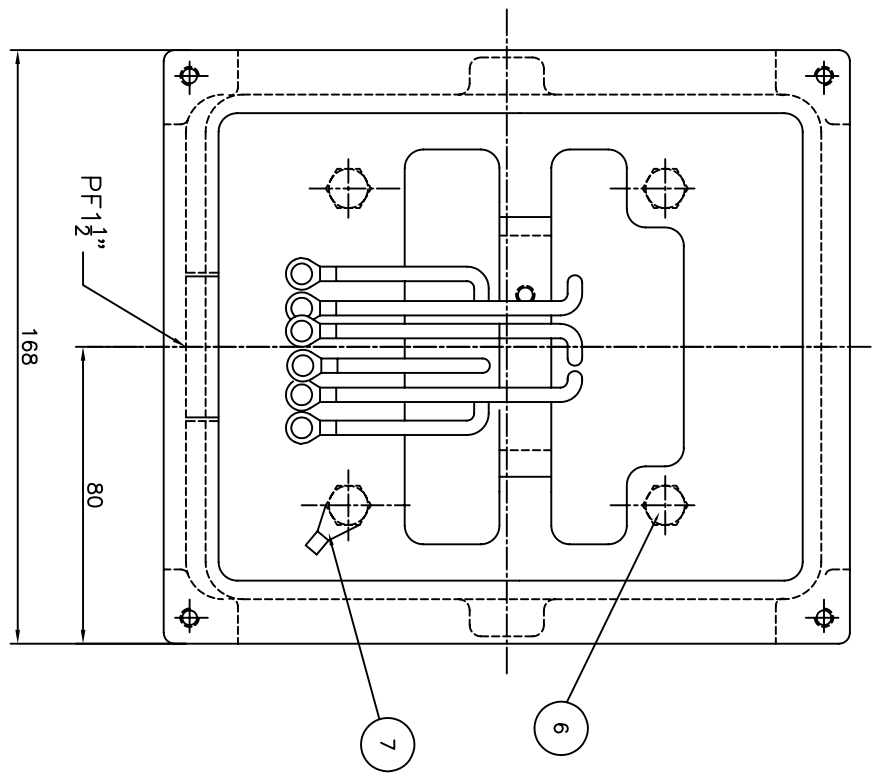
CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm
CHKD BY	Y. S. KIM	SCALE	1/8.5
CHKD BY	S. H. KO	PROJEC'N	3rd Angle
DSND BY	I. K. KIM	DATE	2002.10.26

SUBJECT	KS 180M	CAD PROJ \ FILE
TITLE	XSDNKS\B2000AB07	
OUTLINE		



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					
5					
6					
7					
8					
9					

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			
DWG NO.				227B8008LA2			
Revision No.				0			