

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		kg
			B5		kg
			V1	227B2060AB07	189 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
			2011-04-14	W.H.BACK	S. J. RA
					CHKD
					APPD
					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.

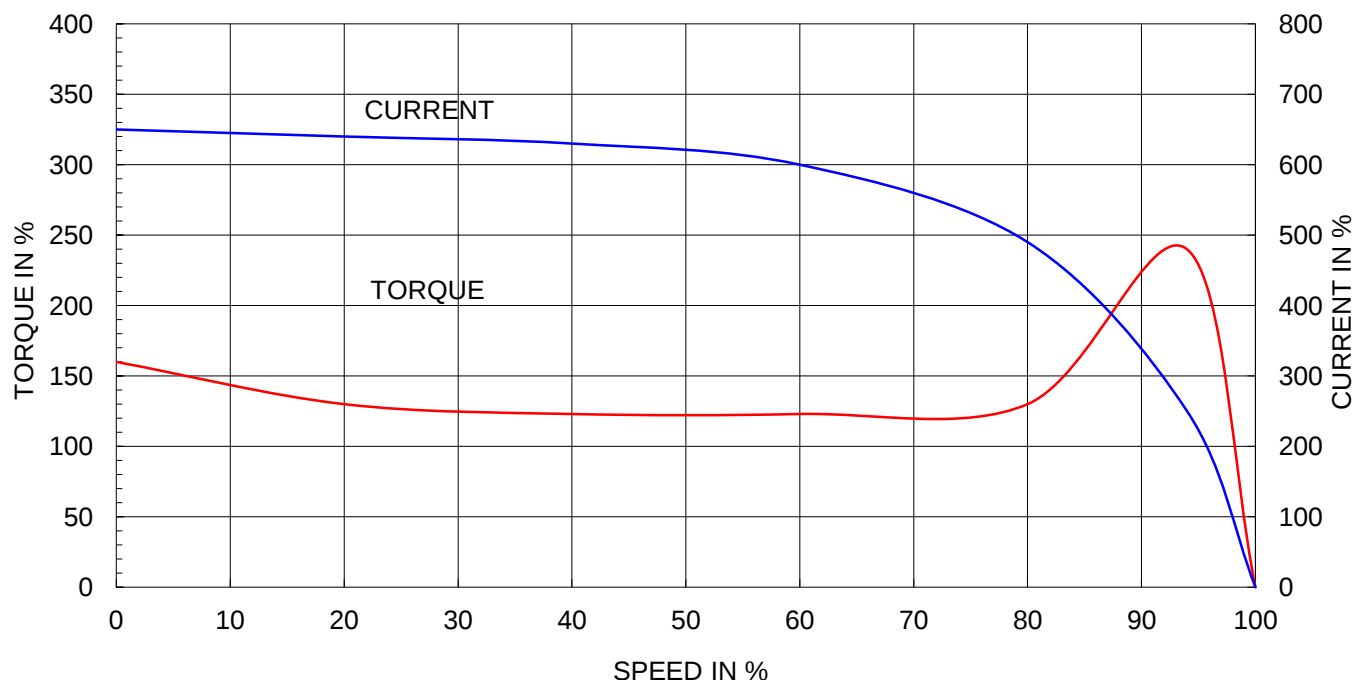
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

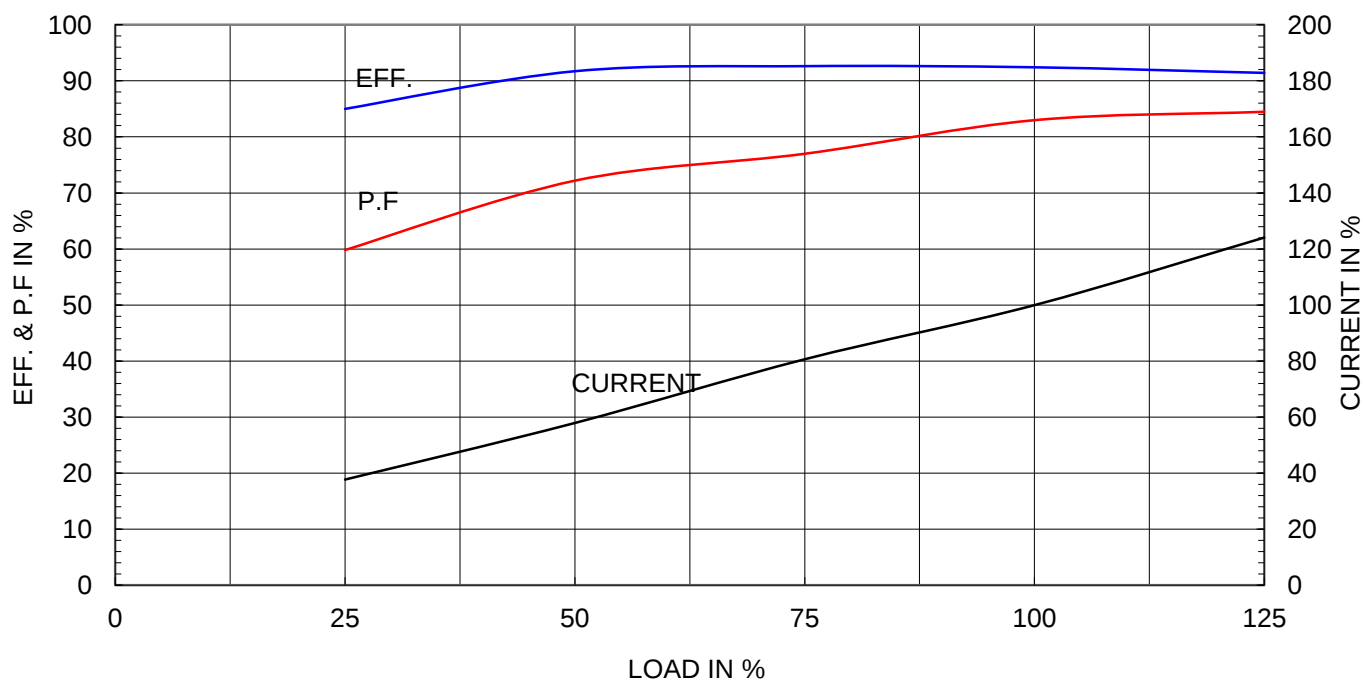
Type	:	HS
Full Load Torque	:	10.2 Kg.m
Motor moment of Inertia (J)	:	0.166 Kg.m ²
Load moment of Inertia (J)	:	13.750 Kg.m ²

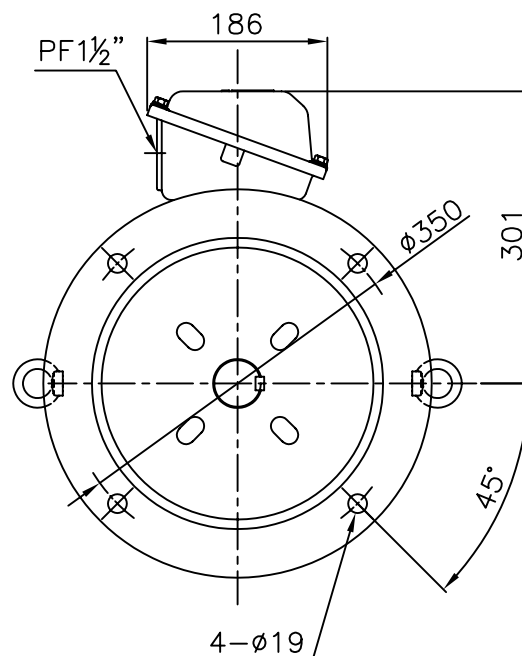
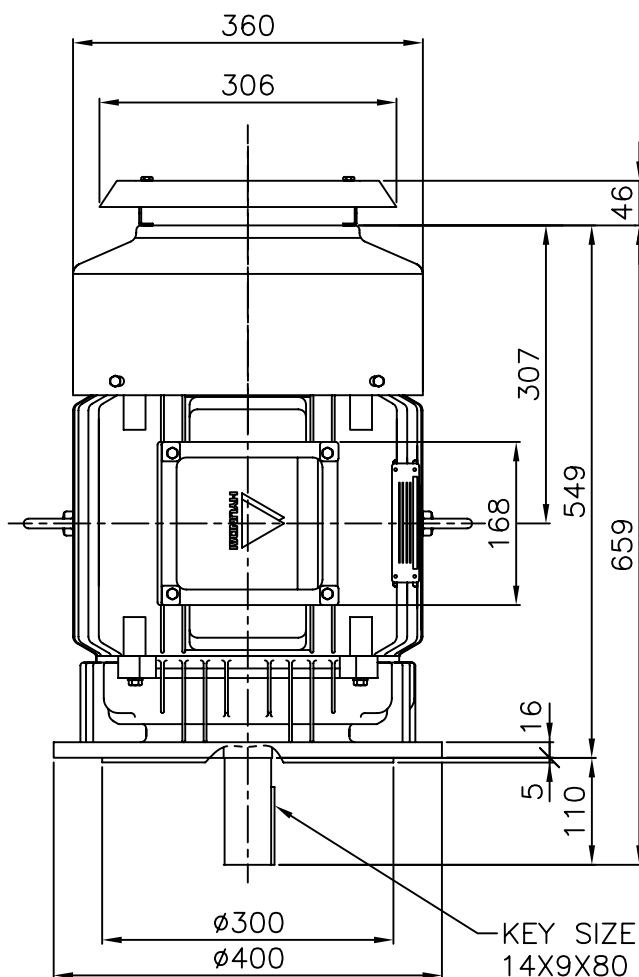
18.5 kW		4 P		60 Hz	
Speed at Full Load :				1775 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	31.7A	36.7A	63.3A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





VIEW "A"

NOTE

1.TOLERANCE :

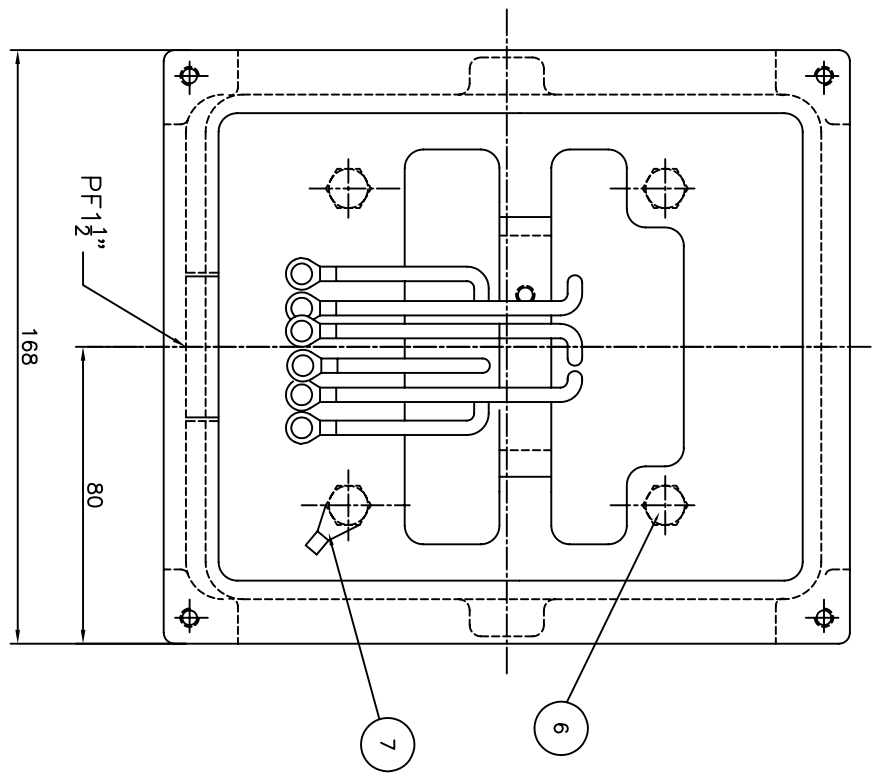
FLANGE HOLES	$\phi 19 \begin{smallmatrix} +0.43 \\ -0. \end{smallmatrix}$
RABBET DIAMETER	$\phi 300 \begin{smallmatrix} +0.016 \\ -0.013 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 48 \begin{smallmatrix} +0.018 \\ +0.002 \end{smallmatrix}$
KEYWAY WIDTH	$14 \begin{smallmatrix} +0 \\ -0.043 \end{smallmatrix}$
KEYWAY DEPTH	$42.5 \begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$

2.REMARK

DRIP COVER WILL BE ATTACHED PER REQUEST FROM CUSTOMER ONLY.

* CAST IRON CONDUIT BOX

APPD BY	KIM Y.S.	UNIT	mm	SUBJECT	KS 180M	CAD PROJ \ FILE
CHKD BY	LEE K.S.	SCALE	1/8			XSDNKS\B2060AB07
CHKD BY	KIM I.K.	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	JANG Y.G.	DATE	2007.12.05			
 HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	B2060AB07	Sheet No. of
				DWG NO	227B2060AB07	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	CHK'D BY	APP'D BY
1						

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				REF. NO.	227B8008LA2	Sheet No. of	
TERMINAL BOX ASSEMBLY				DWG NO.	227B8008LA2	Revision No.	0