

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	160M		Rated Output	11 kW 15 HP	
Type	HS		Number of Poles	2	
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage	
Method of Cooling	IC411(FC)		Starting Method*	☐ D.O.L ☒ Y- Δ	
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V
Number of Phases	3		Current	Full Load	18.4 A 21.3 A 36.8 A
Insulation Class	☒ F ☐ B ☐ 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	89.7 %	
Motor Location	☐ Indoor ☒ Outdoor		75% Load	90.7 %	
Altitude	Less than 1000 meter		100% Load	90.2 %	
Relative Humidity	Less than 80 %		Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)		50% Load	0.800	
Duty Type	Continuos (S1)		75% Load	0.857	
Service Factor	1.15		100% Load	0.870	
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load	3535 r.p.m	
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6309ZZC3 / 6309ZZC3	Full Load	3.0 kg·m	
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**	180 %	
External Thrust	Not applicable		Breakdown**	250 %	
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)		
Shaft Extension	☒ Single ☐ Double		Load(Max.)	2.000 kg·m²	
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor	0.039 kg·m²	
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)	79 dB(A)	
	Location	Refer to Outline Drawing	Vibration	2.2 mm/sec (r.m.s)	
Application			Permissible number of consecutive starts	Cold	3 times
Area classification	Non-Hazardous		Hot	2 times	
Type of Ex-Protection	Not applicable		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		SUBMITTAL DRAWING		
ACCESSORIES			Outline Dimension Drawing \ Motor Weight(Approx.)		
			B3		kg
			B5		kg
			V1	227B2060AB05	123 kg
			B3/B5		kg
			Main T-Box Ass'y	227B8008LA1	
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.

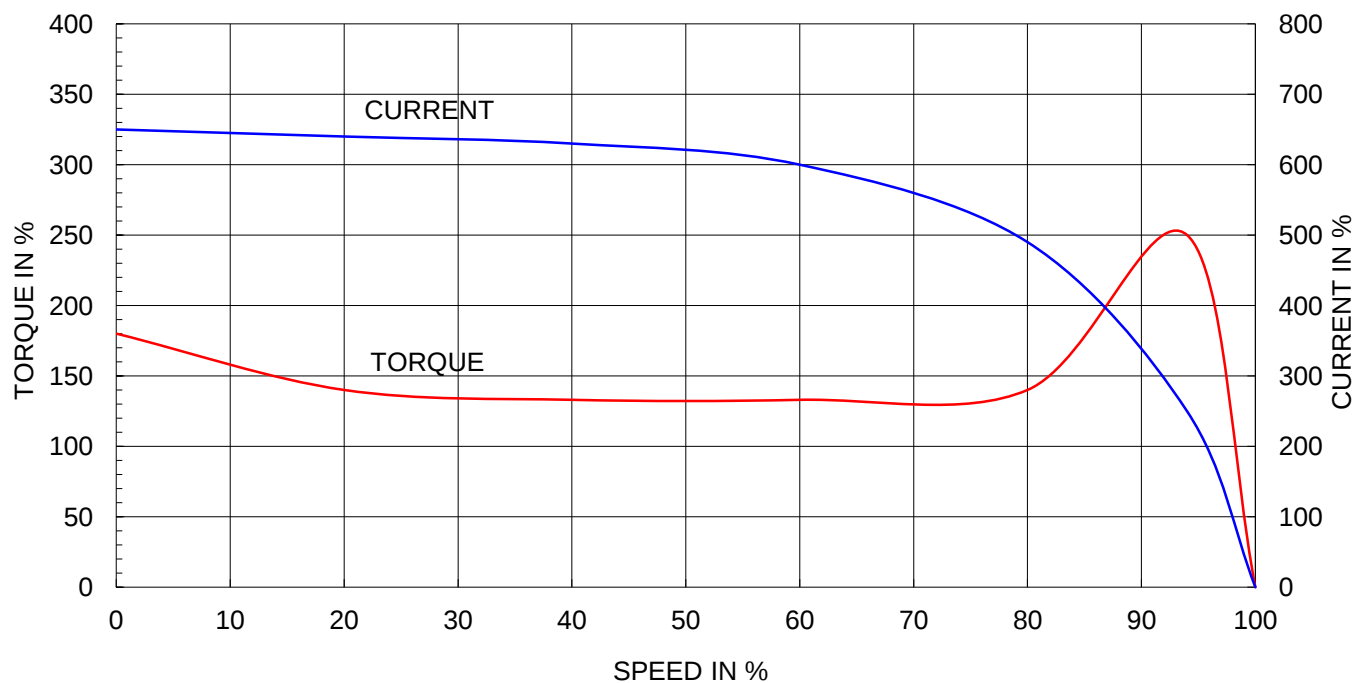
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

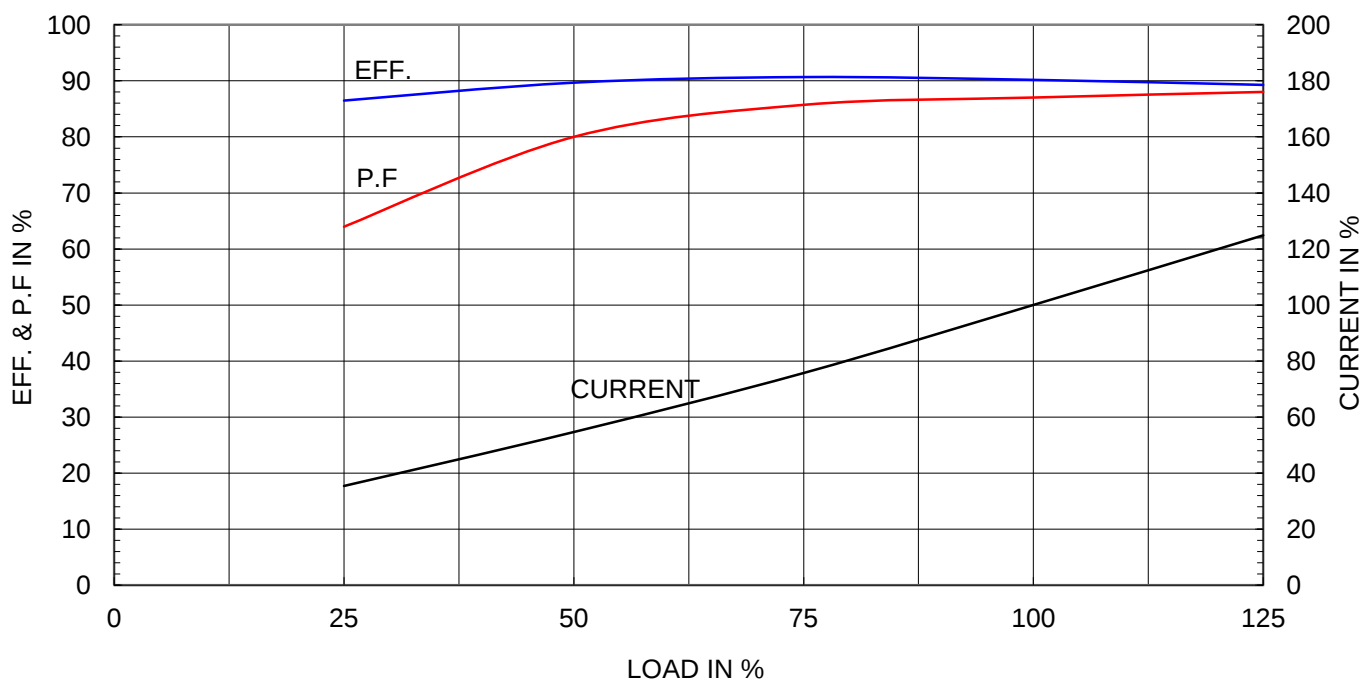
Type	:	HS
Full Load Torque	:	3.0 Kg.m
Motor moment of Inertia (J)	:	0.039 Kg.m ²
Load moment of Inertia (J)	:	2.000 Kg.m ²

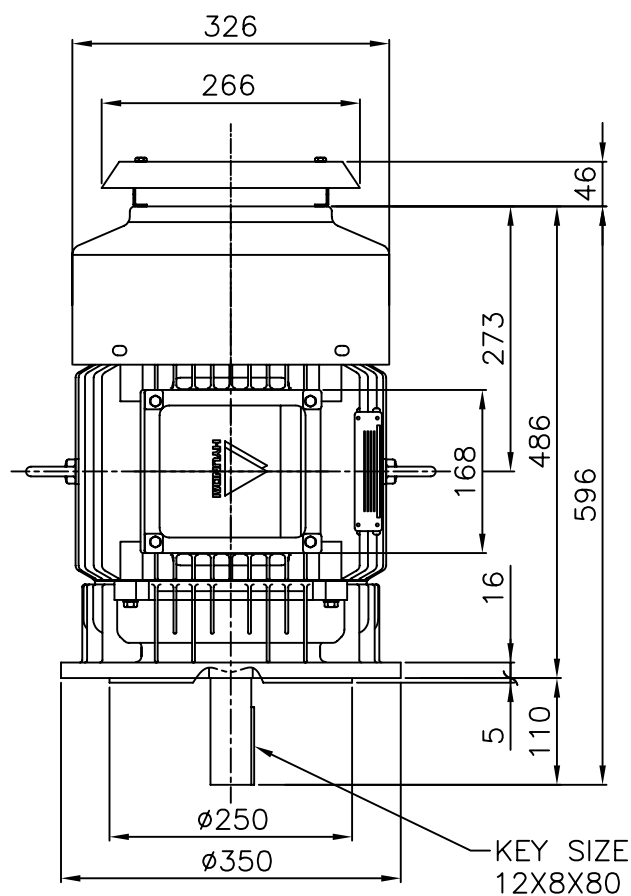
11 kW		2 P		60 Hz	
Speed at Full Load :				3535 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	18.4A	21.3A	36.8A		

SPEED VS TORQUE & CURRENT CURVE

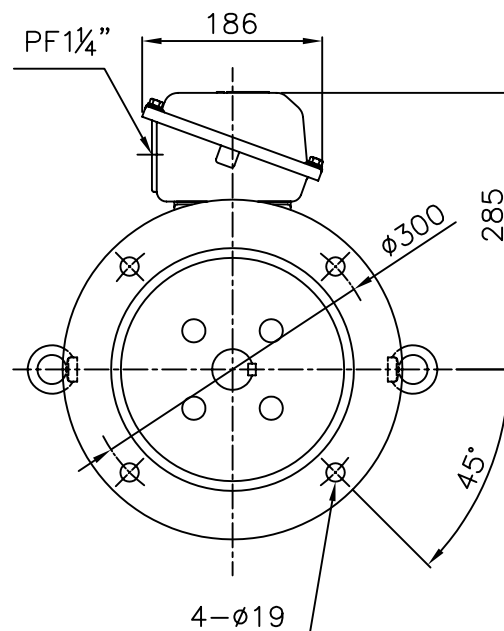


OUTPUT VS EFF., P.F & CURRENT CURVE





↑
"A"

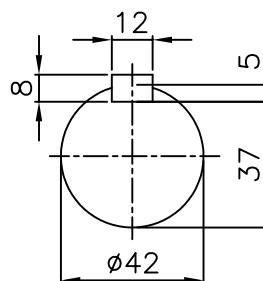


VIEW "A"

NOTE

1.TOLERANCE :

FLANGE HOLES	Ø19	$+0.43$ $-0.$
RABBET DIAMETER	Ø250	$+0.016$ -0.013
SHAFT DIAMETER	Ø42	$+0.018$ $+0.002$
KEYWAY WIDTH	12	$+0$ -0.043
KEYWAY DEPTH	37	$+0$ -0.2

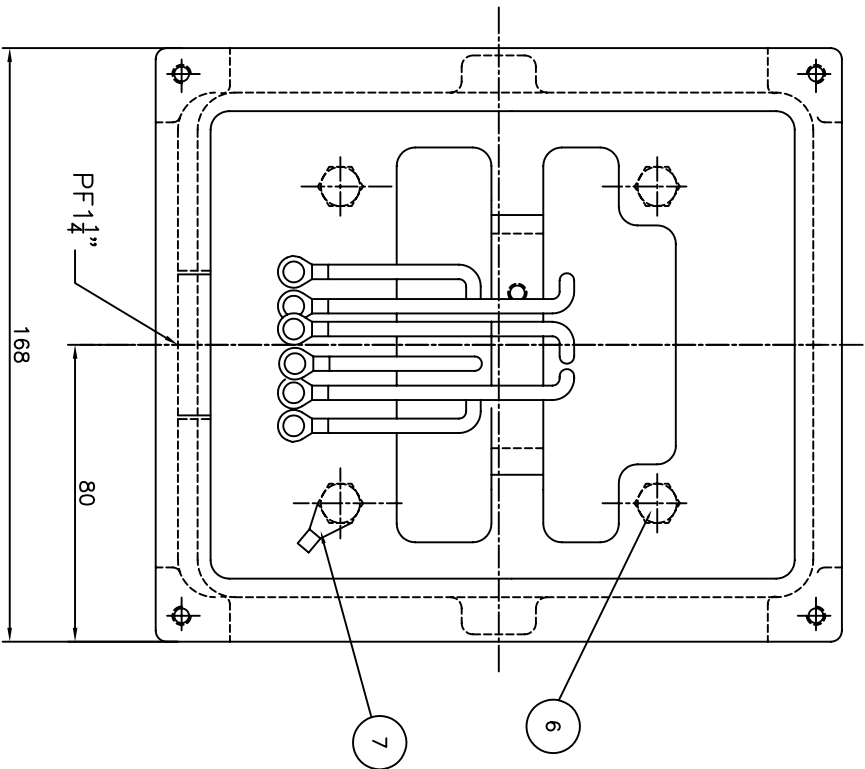
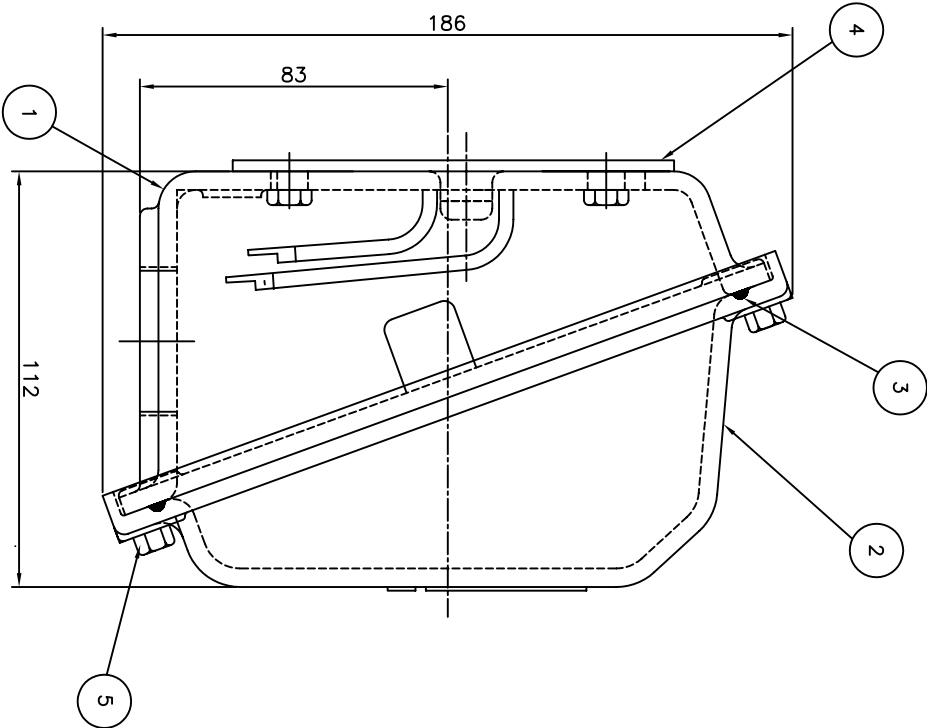


2.REMARK

DRIP COVER WILL BE ATTACHED PER REQUEST FROM CUSTOMER ONLY.

* CAST IRON CONDUIT BOX

APPD BY	KIM Y.S.	UNIT	mm	SUBJECT	KS 160M	CAD PROJ \ FILE
CHKD BY	LEE K.S.	SCALE	1/8			XSDNKS\B2060AB05
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	B2060AB05	Sheet No. of
				DWG NO	227B2060AB05	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				REF. NO.	227B8008LA1	Sheet No. of	
TERMINAL BOX ASSEMBLY				DWG NO.	227B8008LA1	Revision No. 0	