

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	22 kW 30 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	34.9 A 40.4 A 69.7 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 90.5 %		
Motor Location	☐ Indoor ☒ Outdoor		75% Load 91.5 %		
Altitude	Less than 1000 meter		100% Load 91.0 %		
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	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load 3540 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6310ZZC3 / 6310ZZC3	Full Load 6.1 kg·m		
	Lubricant	Grease(Polyrex-EM)	Locked-rotor** 180 %		
External Thrust	Not applicable		Breakdown** 220 %		
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)		
Shaft Extension	☒ Single ☐ Double		Load(Max.) 2.850 kg·m²		
Terminal	Main	☐ Steel ☒ Cast Iron	Motor 0.080 kg·m²		
Box	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)		
	Location	Refer to Outline Drawing	86 dB(A)		
Application			Vibration 2.2 mm/sec (r.m.s)		
Area classification	Non-Hazardous		Permissible number of		
Type of Ex-Protection	Not applicable		Cold 3 times		
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		Hot 2 times		
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
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

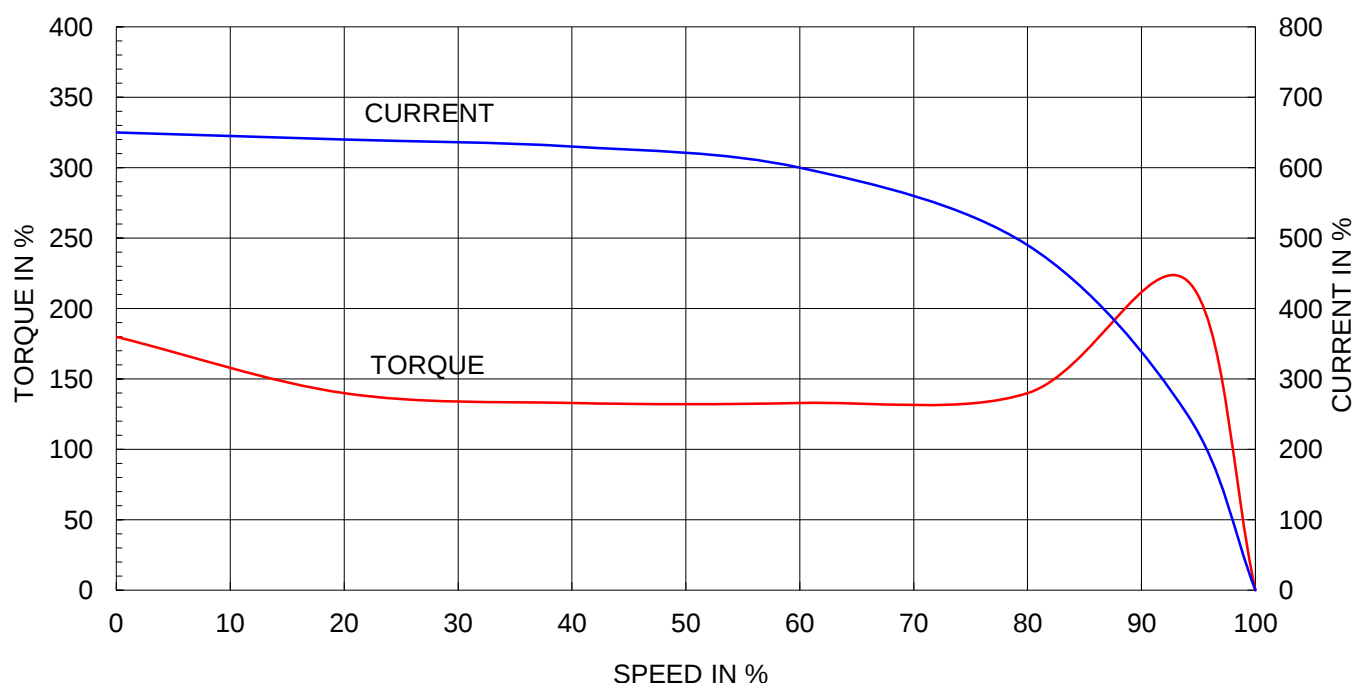
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

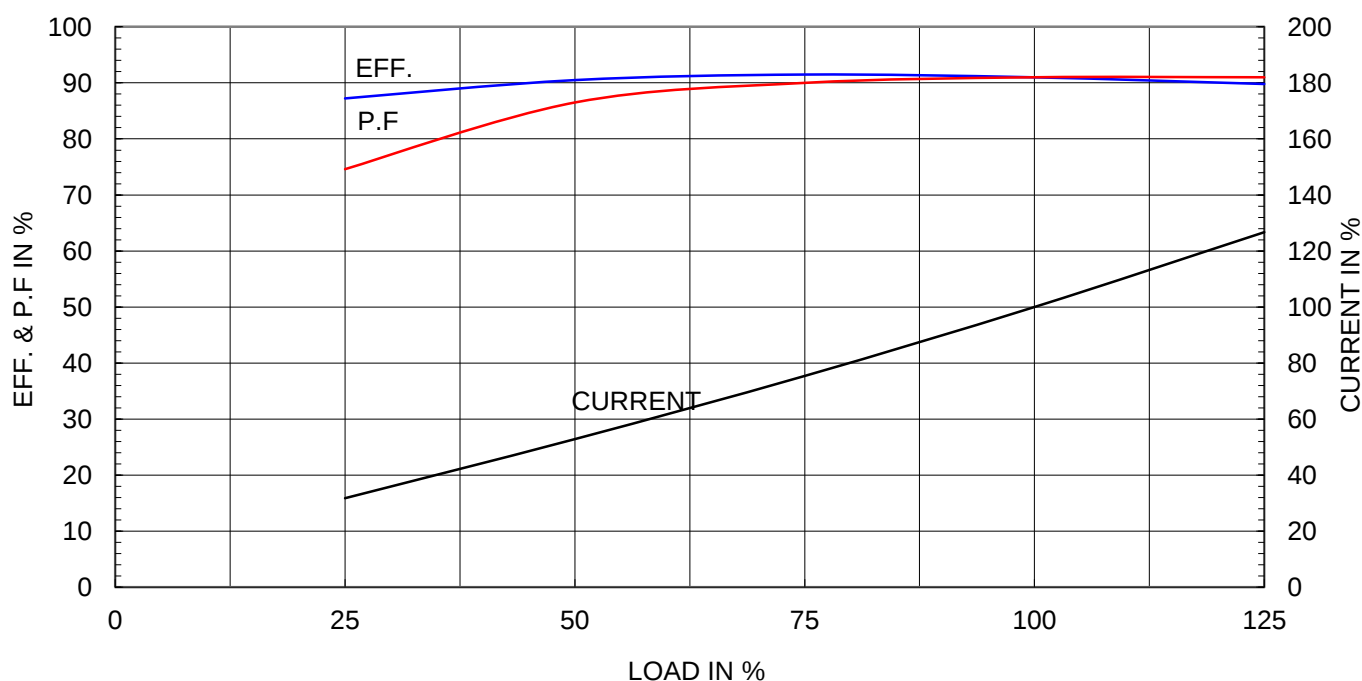
Type	:	HS
Full Load Torque	:	6.1 Kg.m
Motor moment of Inertia (J)	:	0.080 Kg.m ²
Load moment of Inertia (J)	:	2.850 Kg.m ²

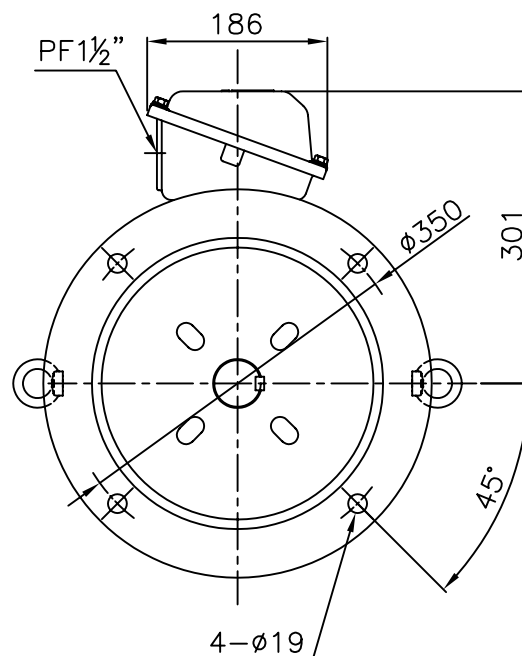
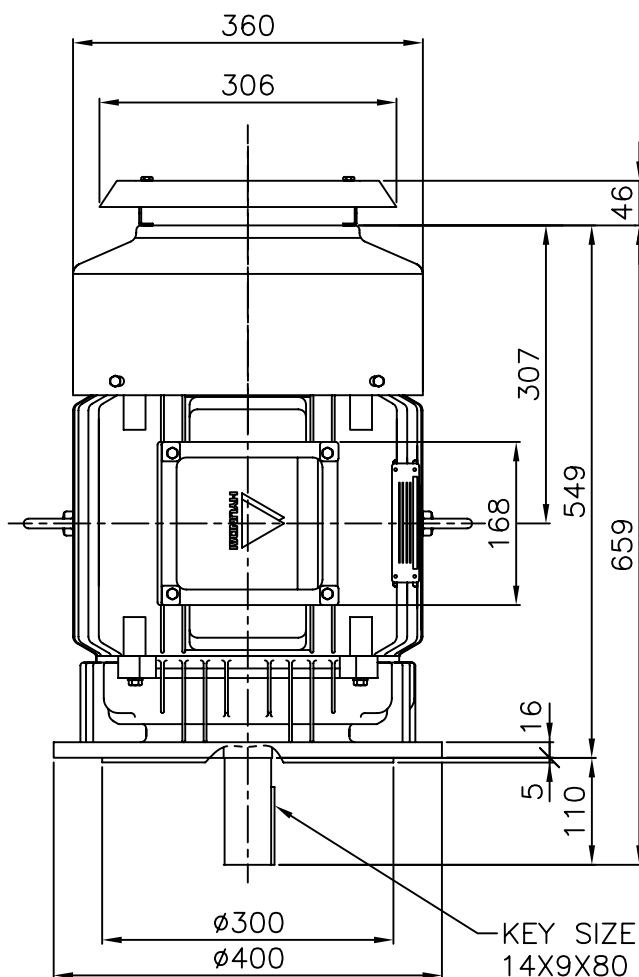
22 kW		2 P		60 Hz	
Speed at Full Load :				3540 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	34.9A	40.4A	69.7A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





VIEW "A"

NOTE

1.TOLERANCE :

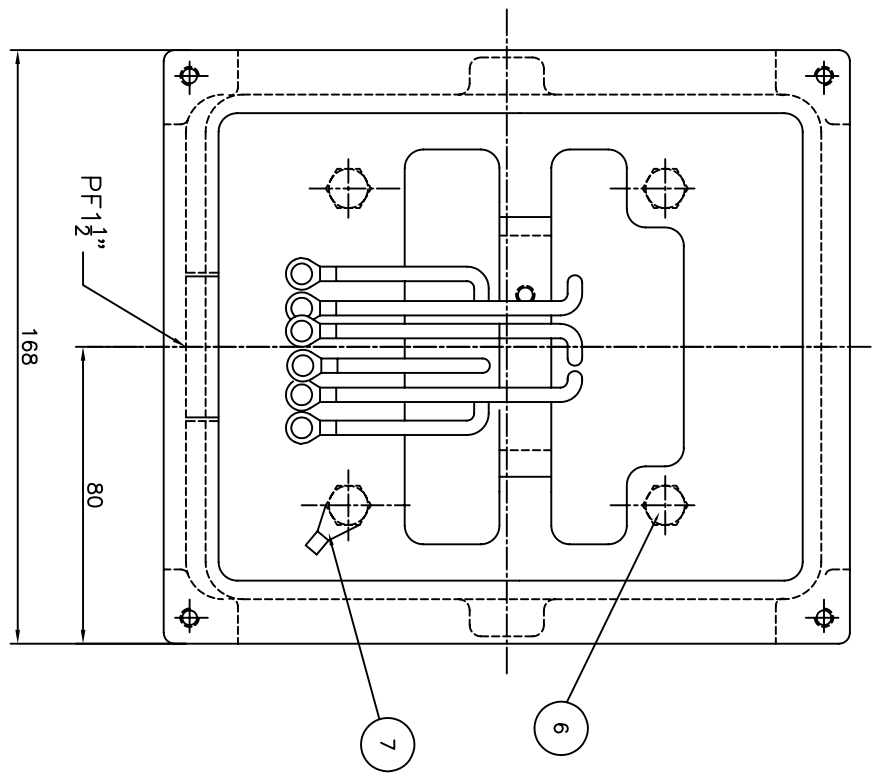
FLANGE HOLES	Ø19	$+0.43$ $-0.$
RABBET DIAMETER	Ø300	$+0.016$ -0.013
SHAFT DIAMETER	Ø48	$+0.018$ $+0.002$
KEYWAY WIDTH	14	$+0$ -0.043
KEYWAY DEPTH	42.5	$+0$ -0.2

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