

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	4													
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 37.6 A 43.6 A 75.3 A Locked-rotor** 650 % 650 % 650 %													
Insulation Class	☒ F ☐ B ☐ H		Efficiency	50% Load 91.9 % 75% Load 92.6 % 100% Load 92.4 %													
Temp. Rise at full load (by resistance method)			Power Factor(p.u)														
at 1.0 S.F 80 deg. C			50% Load 0.722 75% Load 0.790 100% Load 0.830														
Motor Location	☐ Indoor ☒ Outdoor		Speed at Full Load 1775 r.p.m														
Altitude	Less than 1000 meter		Torque														
Relative Humidity	Less than 80 %		Full Load 12.1 kg·m Locked-rotor** 160 % Breakdown** 230 %														
Ambient Temp.	40 deg. C (Max.)		Moment of Inertia (J)														
Duty Type	Continuos (S1)		Load(Max.) 16.750 kg·m² Motor 0.180 kg·m²														
Service Factor	1.15		Sound Pressure Level (No-load & mean value at 1m from motor)														
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		77 dB(A)														
Bearing	Type	Anti-Friction	Vibration 2.2 mm/sec (r.m.s)														
	DE/N-DE	6310ZZC3 / 6310ZZC3	Permissible number of														
	Lubricant	Grease(Polyrex-EM)	consecutive starts														
External Thrust	Not applicable		Cold 3 times														
Coupling Method	☒ Direct ☐ V-Belt		Hot 2 times														
Shaft Extension	☒ Single ☐ Double		Paint Munsell No. 4.0PB5.4/5.5(VL-451)														
Terminal	Main	☐ Steel ☒ Cast Iron	SUBMITTAL DRAWING Outline Dimension Drawing \ Motor Weight(Approx.)														
Box	Aux.	☐ Yes ☒ No															
	Location	Refer to Outline Drawing															
Application			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>B3</td> <td></td> <td>kg</td> </tr> <tr> <td>B5</td> <td></td> <td>kg</td> </tr> <tr> <td>V1</td> <td>227B2060AB07</td> <td>189 kg</td> </tr> <tr> <td>B3/B5</td> <td></td> <td>kg</td> </tr> </table>			B3		kg	B5		kg	V1	227B2060AB07	189 kg	B3/B5		kg
B3		kg															
B5		kg															
V1	227B2060AB07	189 kg															
B3/B5		kg															
Area classification	Non-Hazardous		Main T-Box Ass'y 227B8008LA2														
Type of Ex-Protection	Not applicable																
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)																
ACCESSORIES			REMARK														
			High Efficiency														
			* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise														
SPARE PARTS			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.

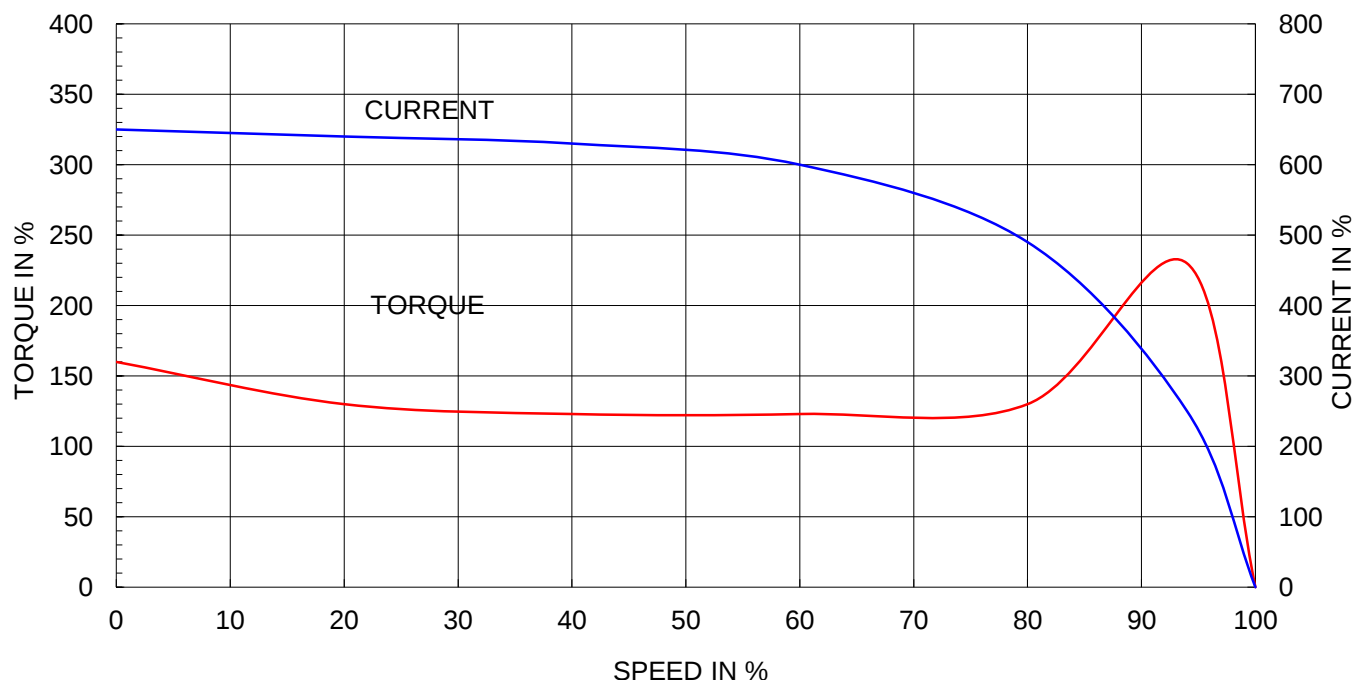
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

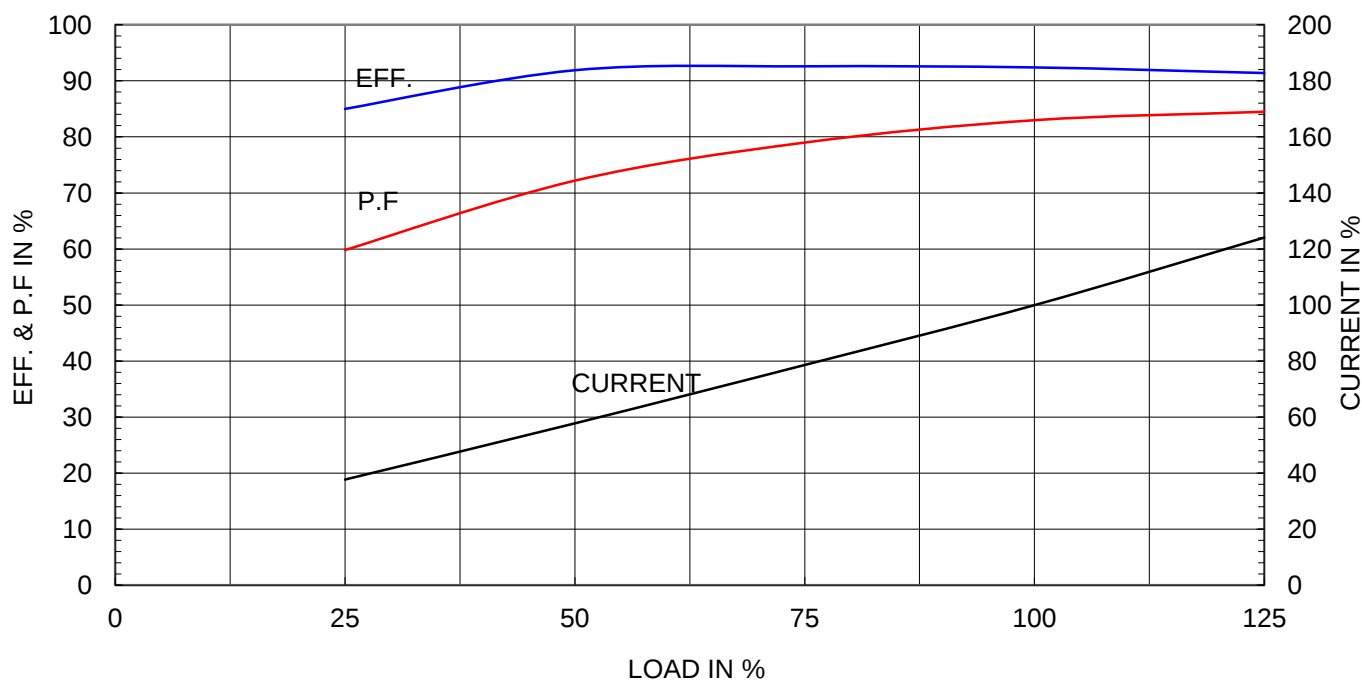
Type	:	HS
Full Load Torque	:	12.1 Kg.m
Motor moment of Inertia (J)	:	0.180 Kg.m ²
Load moment of Inertia (J)	:	16.750 Kg.m ²

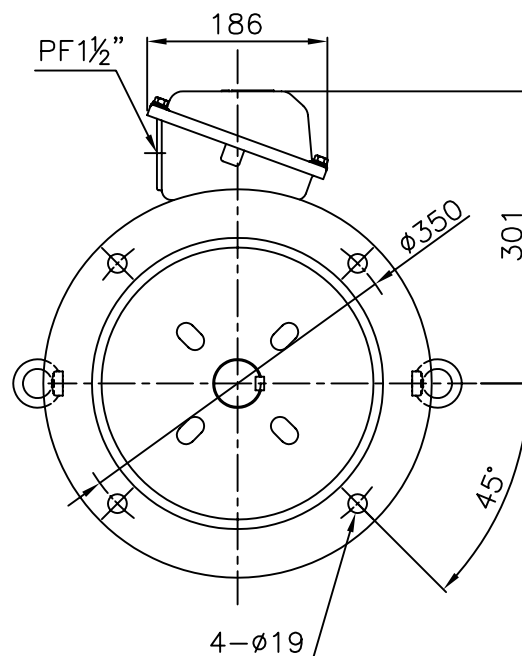
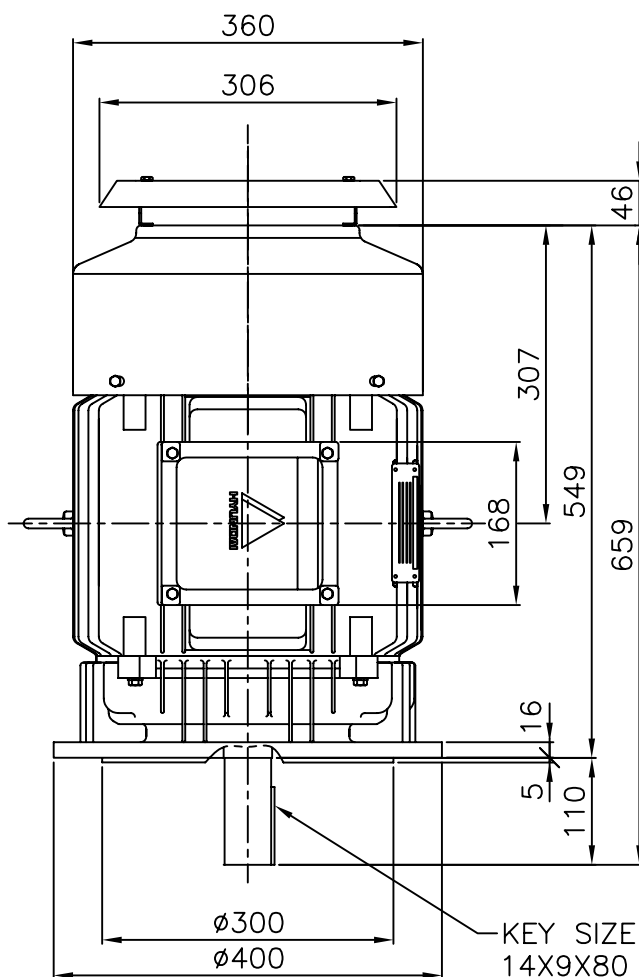
22 kW		4 P		60 Hz	
Speed at Full Load :				1775 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	37.6A	43.6A	75.3A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





VIEW "A"

NOTE

1.TOLERANCE :

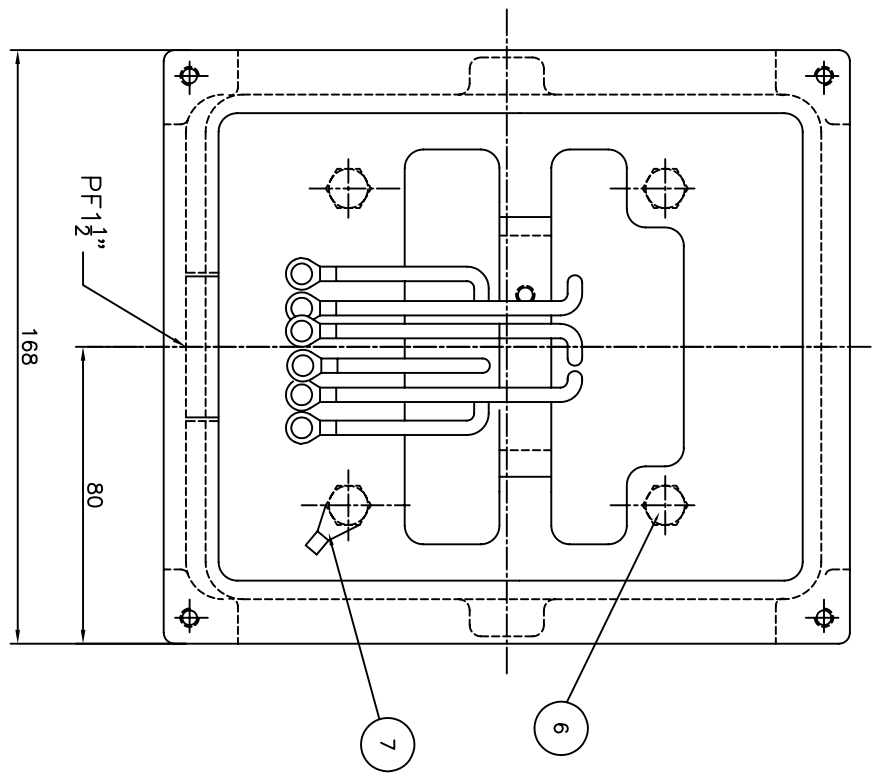
FLANGE HOLES	Ø19	+0.43 -0.
RABBET DIAMETER	Ø300	+0.016 -0.013
SHAFT DIAMETER	Ø48	+0.018 +0.002
KEYWAY WIDTH	14	+0 -0.043
KEYWAY DEPTH	42.5	+0 -0.2

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	