

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	90L		Rated Output	1.5 kW 2 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 3.0 A	3.5 A 6.0 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	780 %	780 % 780 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 82.5 %				
Motor Location	☐ Indoor ☒ Outdoor		75% Load 83.5 %				
Altitude	Less than 1000 meter		100% Load 84.0 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.581				
Duty Type	Continuos (S1)		75% Load 0.706				
Service Factor	1.15		100% Load 0.780				
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load 1735 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6205ZZ / 6204ZZ	Full Load 0.8 kg·m				
	Lubricant	Grease(SML4)	Locked-rotor** 310 %				
External Thrust	Not applicable		Breakdown** 360 %				
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.) 1.050 kg·m²				
Terminal	Main	☐ Steel ☒ Cast Iron	Motor 0.0037 kg·m²				
Box	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	64 dB(A)				
Application			Vibration 1.6 mm/sec (r.m.s)				
Area classification	Non-Hazardous		Permissible number of consecutive starts				
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	227B5060TA03	21 kg		
			B3/B5		kg		
			Main T-Box Ass'y 227B1537AA				
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.

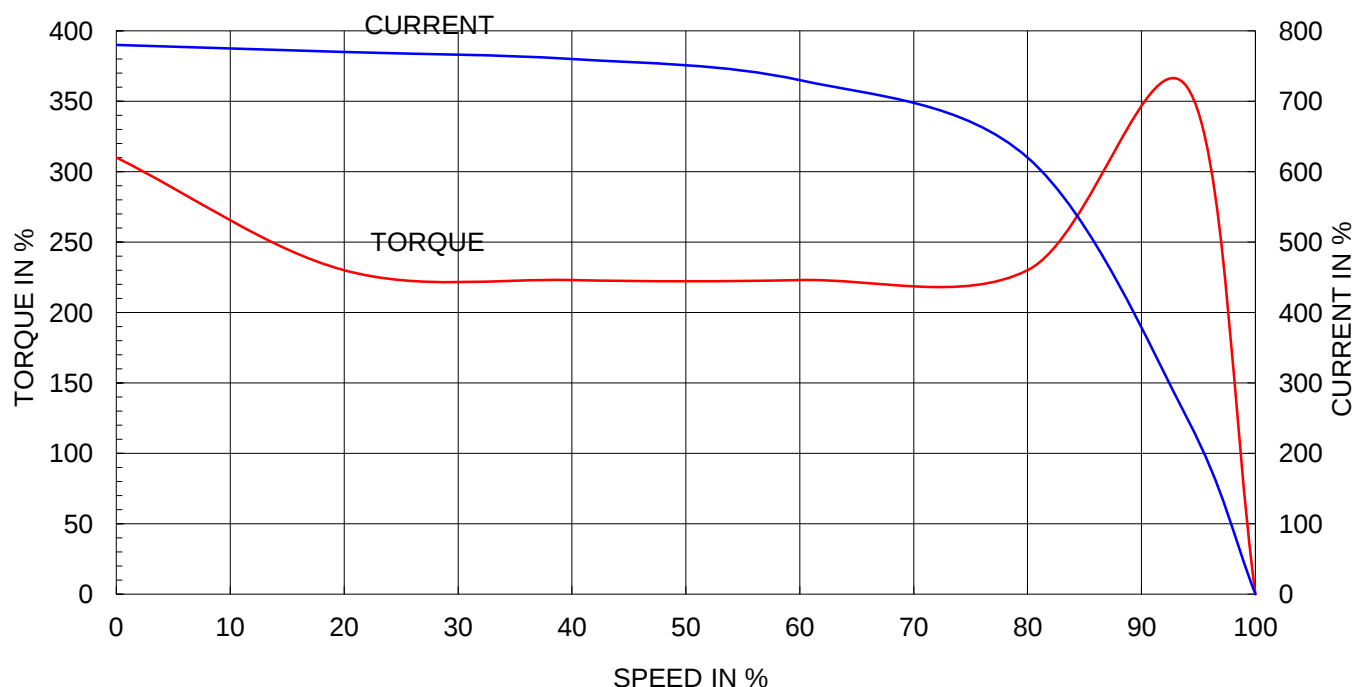
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

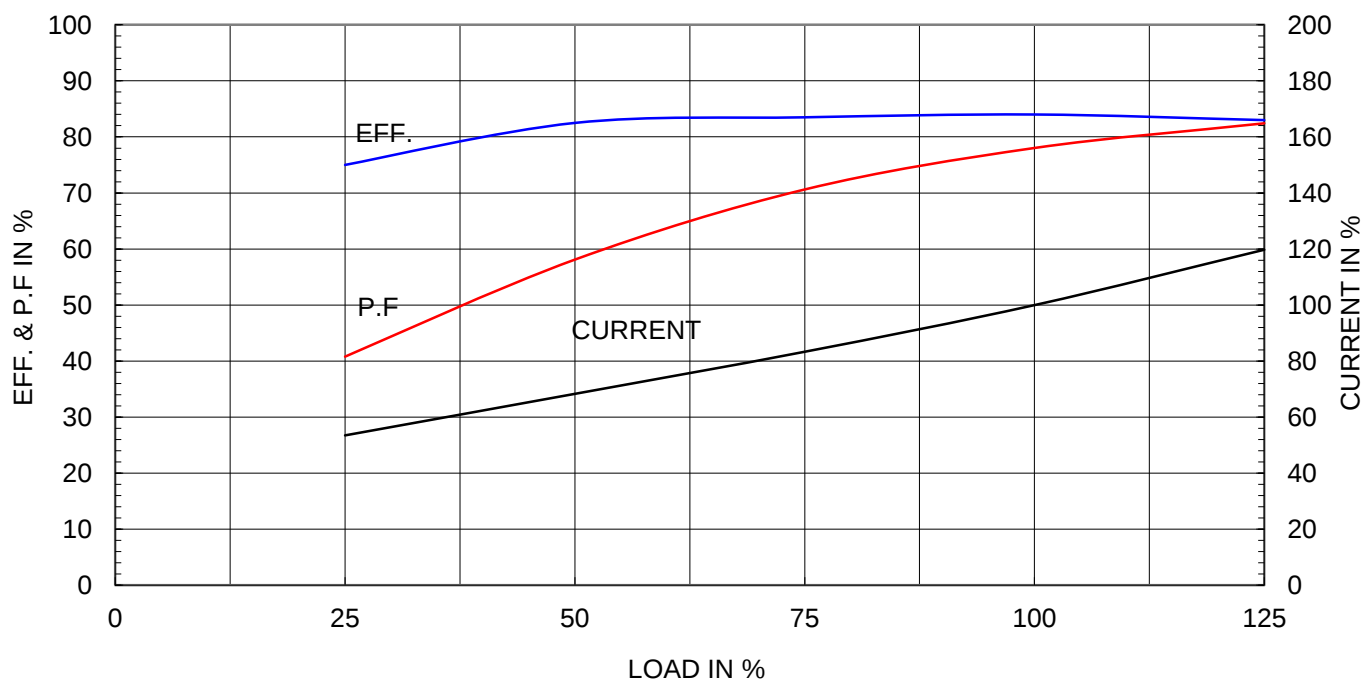
Type	:	HS
Full Load Torque	:	0.8 Kg.m
Motor moment of Inertia (J)	:	0.004 Kg.m ²
Load moment of Inertia (J)	:	1.050 Kg.m ²

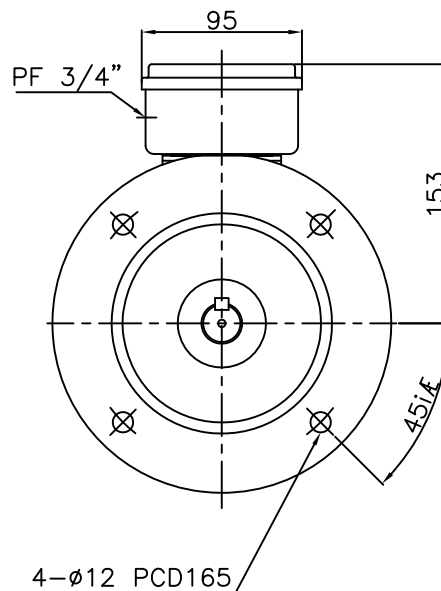
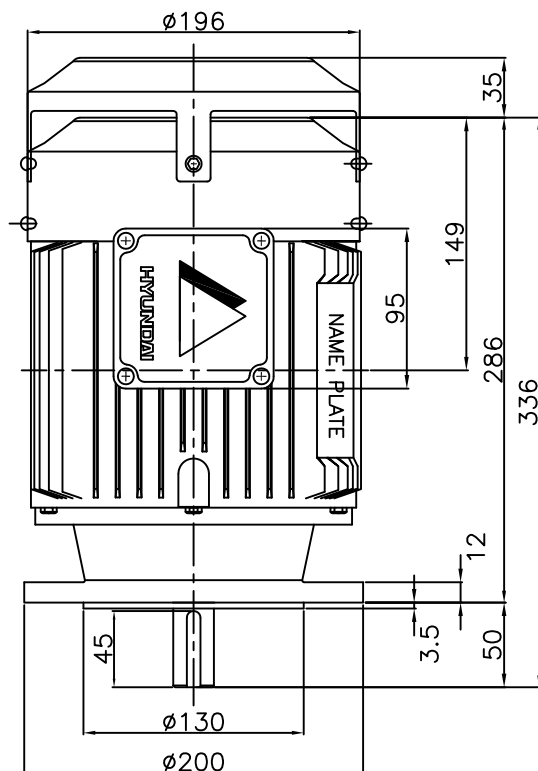
1.5 kW		4 P		60 Hz	
Speed at Full Load :				1735 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	3.0A	3.5A	6.0A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





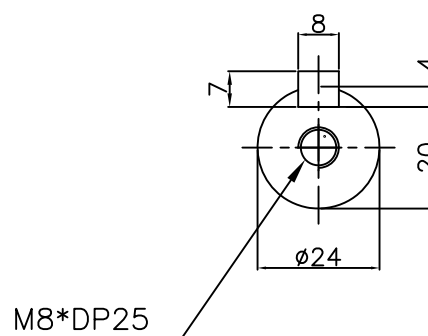
NOTE

1.TOLERANCE :

FLANGE HOLES	$\phi 12^{+0.43}_{-0.}$
RABBET DIAMETER	$\phi 130^{+0.014}_{-0.011}$
SHAFT DIAMETER	$\phi 24^{+0.009}_{-0.004}$
KEYWAY WIDTH	$8^{+0}_{-0.036}$
KEYWAY DEPTH	$20^{+0}_{-0.2}$
KEY SIZE	8*7*45

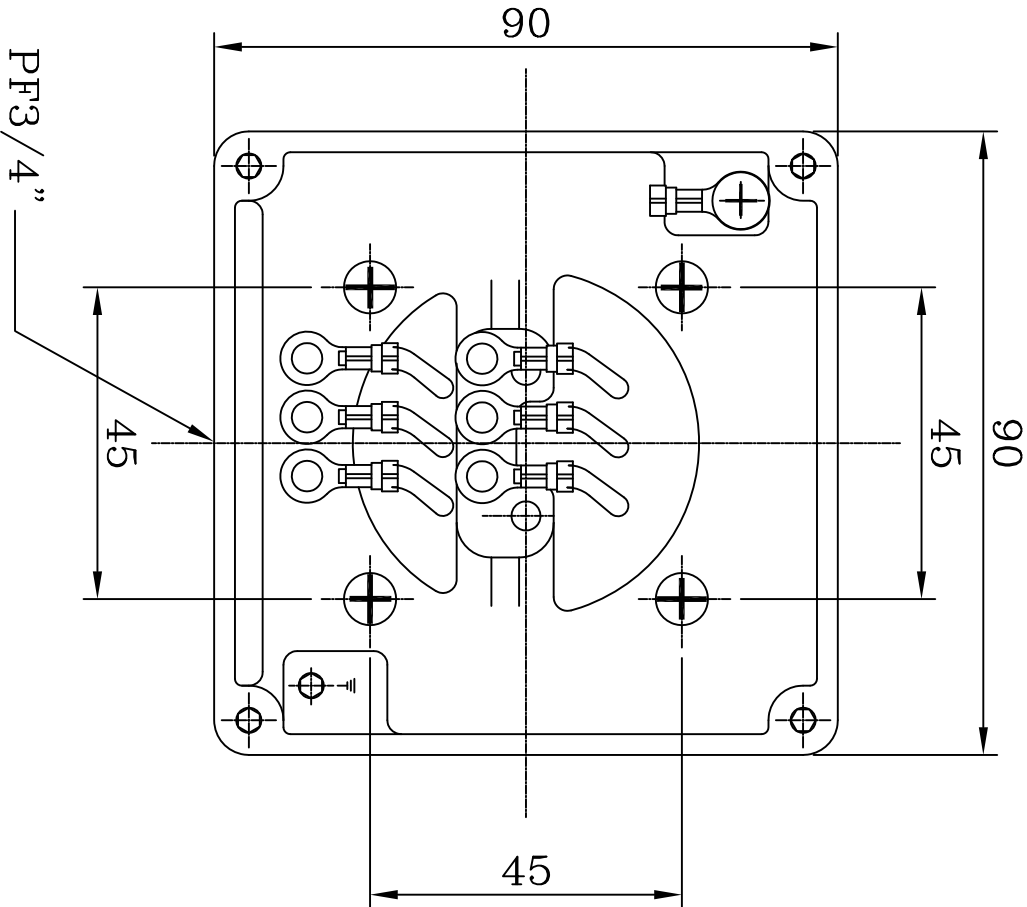
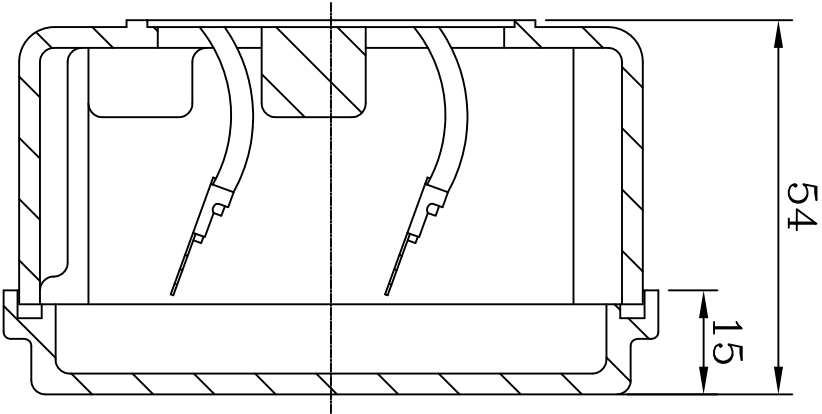
2. REMARK

DRIP COVER WILL BE ATTACHED PER REQUEST FROM CUSTOMER ONLY



* AL CONDUIT BOX

APPD BY	B.M.YOO	UNIT	mm	SUBJECT	FF165, IEC90	CAD PROJ \ FILE
CHKD BY	S.W.SEO	SCALE	1/0.34			IP54,55,56
CHKD BY	J. S. JEONG	PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND BY	C.S.KO	DATE	2008.01.12			
HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	091\091AS	Sheet No. of
				DWG NO	227B5060TA03	Revision No. 0



REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						
2						
3						
4						

QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	B. M. YOO	UNIT	MM	SUBJECT	CB ASM (FR71--90)	CAD PROJ FILE	IP95
CHKD BY	S. W. SEO	SCALE	1/0.98	PROJECT	3 (3rd Angle)	6 LEADS	
CHKD BY	J. S. JEONG	DATE	2005.12.05	REF. NO	227B1537AA1	Sheet No.	of
DSND BY	C. S. KO			DWG NO	227B1537AA1	Revision No.	0
TITLE CONDUIT BOX ASSEMBLY							