

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	0.75 kW 1 HP			
Type	HS		Number of Poles	6			
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 1.8 A	2.1 A 3.6 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	600 %	600 % 600 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 77.0 %				
Motor Location	☐ Indoor ☒ Outdoor		75% Load 79.5 %				
Altitude	Less than 1000 meter		100% Load 80.0 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.471				
Duty Type	Continuos (S1)		75% Load 0.594				
Service Factor	1.15		100% Load 0.685				
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load 1145 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6205ZZ / 6204ZZ	Full Load 0.6 kg·m				
	Lubricant	Grease(SML4)	Locked-rotor** 280 %				
External Thrust	Not applicable		Breakdown** 330 %				
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 0.003 kg·m²				
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	55 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				
ACCESSORIES			Paint Munsell No. 4.0PB5.4/5.5(VL-451)				
			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.

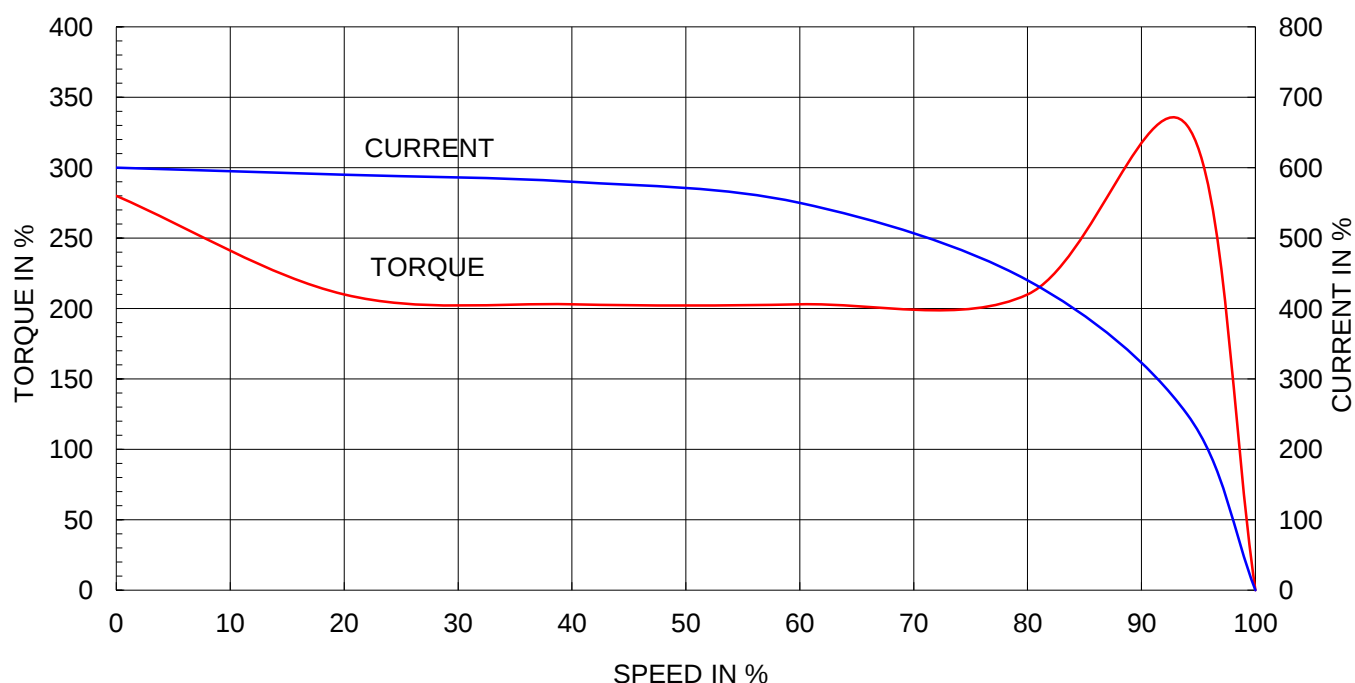
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

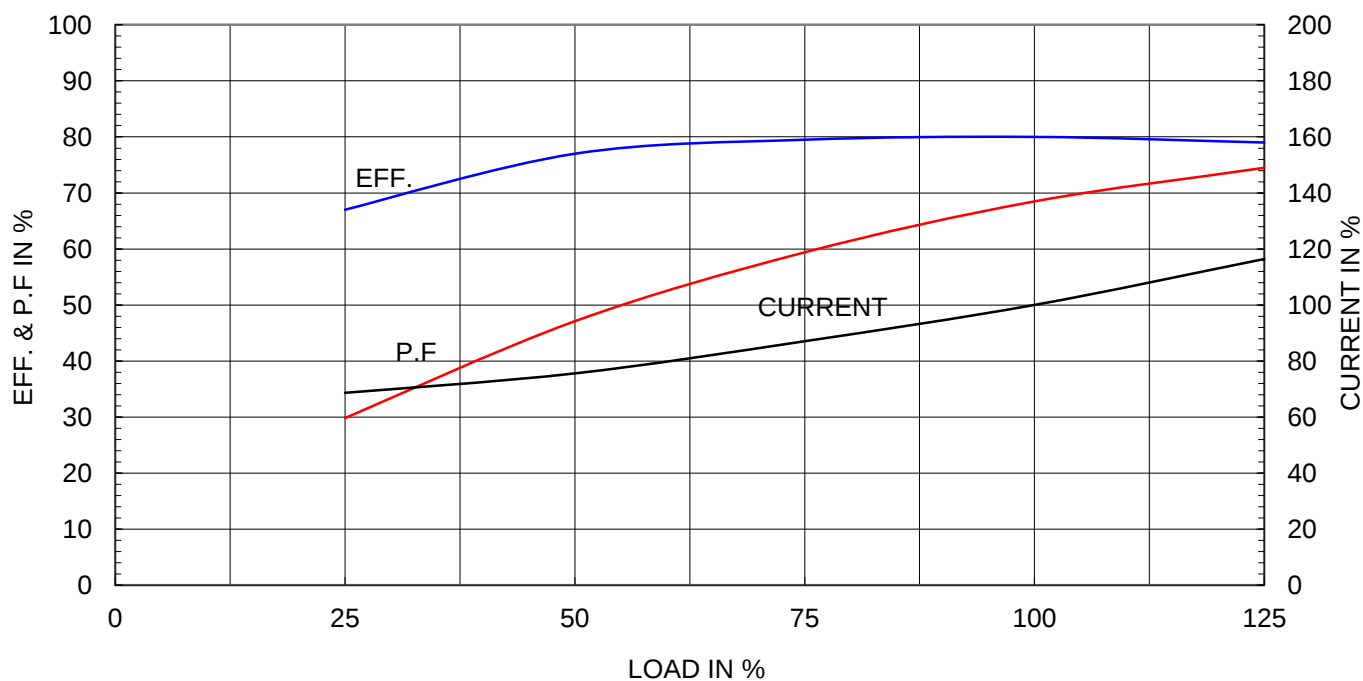
Type	:	HS
Full Load Torque	:	0.6 Kg.m
Motor moment of Inertia (J)	:	0.003 Kg.m ²
Load moment of Inertia (J)	:	2.000 Kg.m ²

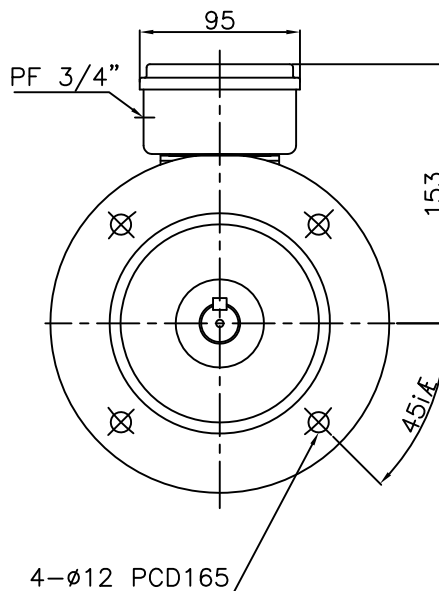
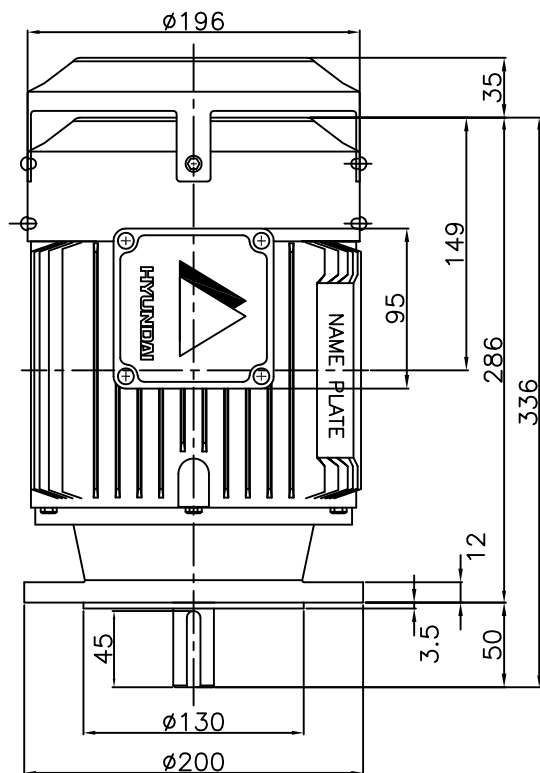
0.75 kW		6 P		60 Hz	
Speed at Full Load :				1145 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	1.8A	2.1A	3.6A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





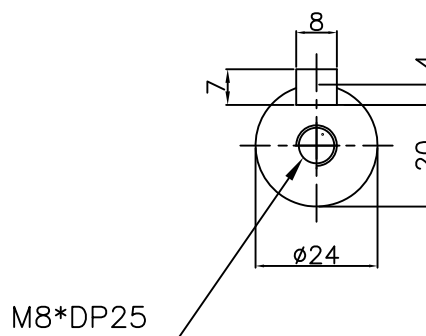
NOTE

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
CHKD BY	S.W.SEO	SCALE	1/0.34
CHKD BY	J. S. JEONG	PROJEC'N	3rd Angle
DSND BY	C.S.KO	DATE	2008.01.12

SUBJECT

FF165, IEC90

CAD PROJ \ FILE
IP54,55,56

TITLE

OUTLINE



HYUNDAI
HEAVY INDUSTRIES CO., LTD.
Electro-Electric System Division

REF. NO

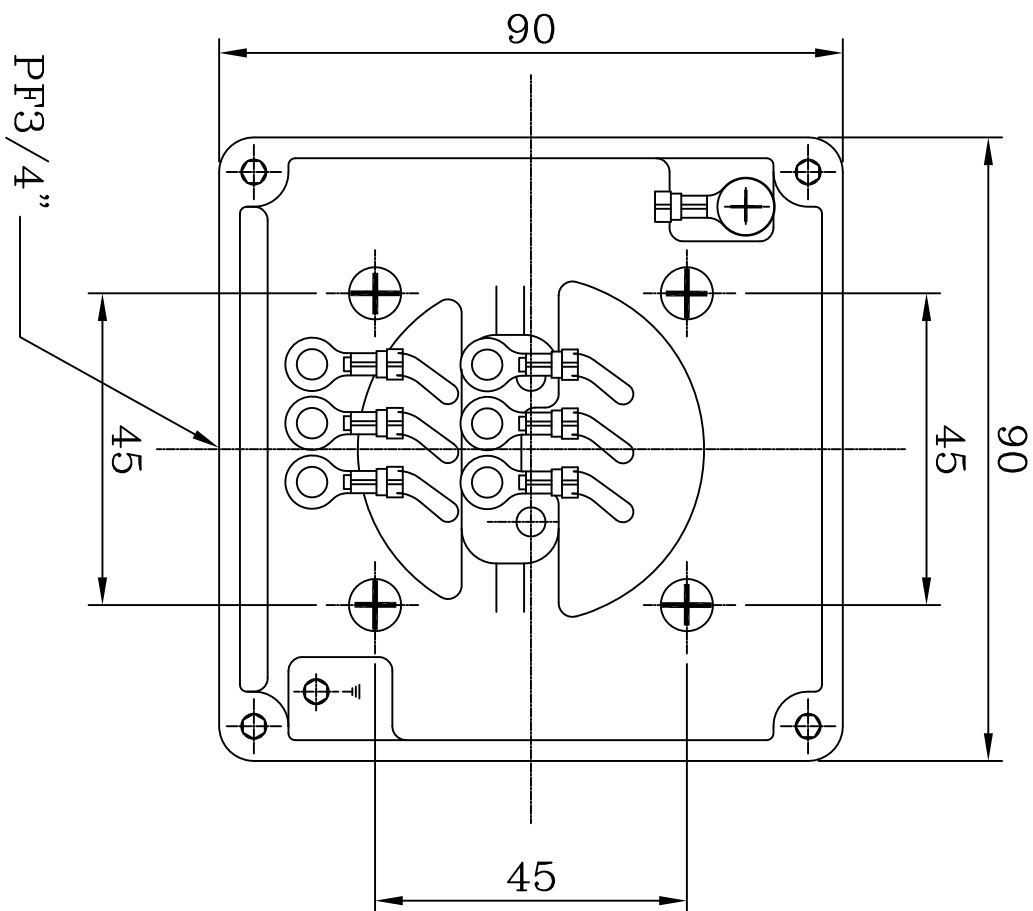
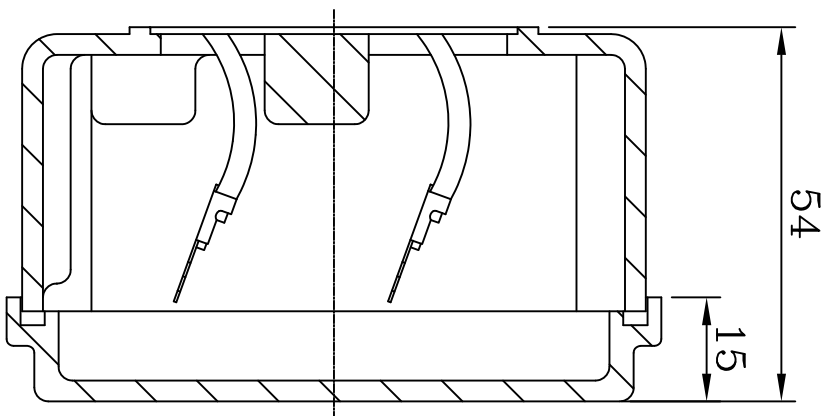
091\091AS

Sheet No. of

DWG NO

227B5060TA03

Revision No. 0



REV	DATE	CONTENTS	REV'D BY	CHK'D BY	APP'D BY

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	B. M. YOO	UNIT	MM	SUBJECT	CB ASW (FR71--90)	CD PROJ. FILE	
CHKD BY	S. W. SEO	SCALE	1/0.98	TITLE			
CHKD BY	J. S. JEONG	PROJE'C'N	3 # (3rd Angle)	6 LEADS			
DSND BY	C. S. KO	DATE	2005.12.05	CONDUIT BOX ASSEMBLY			
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				REF. NO	227B1537AA1	Sheet No.	of
				DWG NO	227B1537AA1	Revision No.	0