

AC INDUCTION MOTOR DATA SHEET

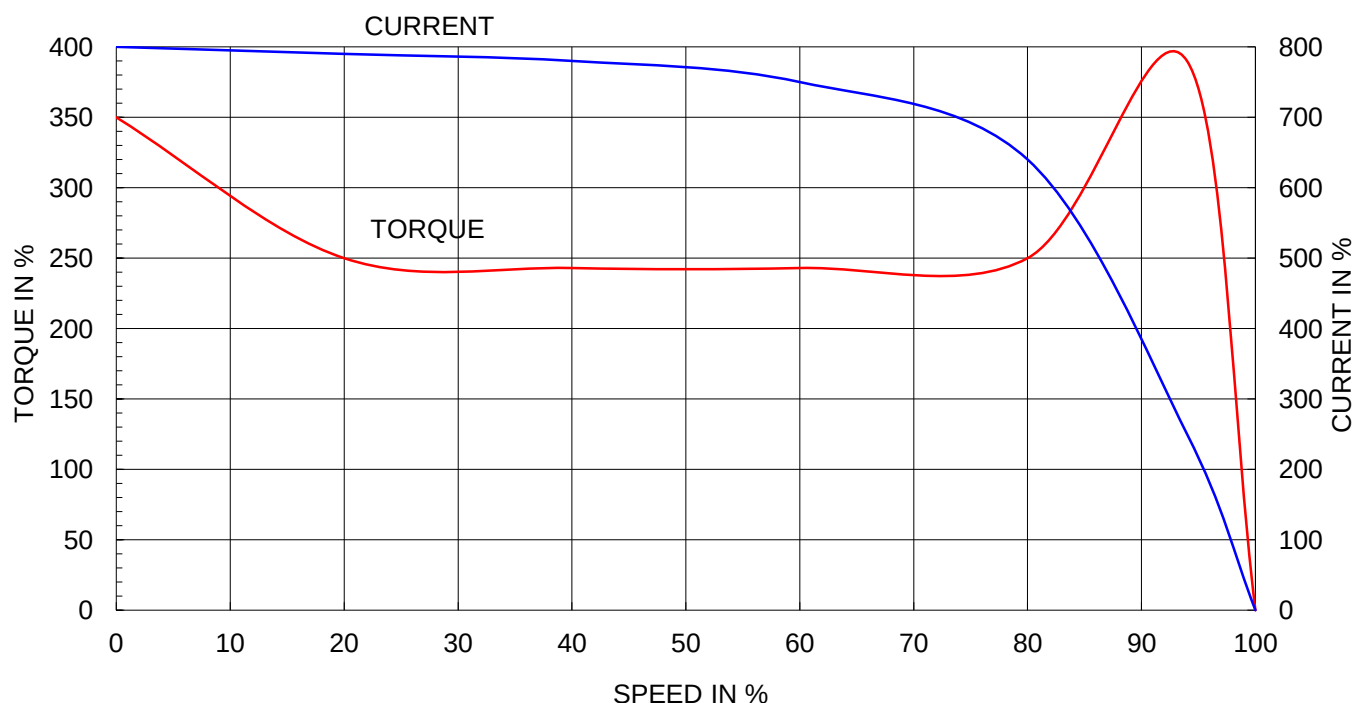
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	80M		Rated Output	0.75 kW 1 HP			
Type	HS		Number of Poles	2			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	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 1.6 A	1.9 A 3.2 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	800 %	800 % 800 %		
Temp. Rise at full load (by resistance method)	at 1.0 S.F 80 deg. C		Efficiency	50% Load 65.0 %			
Motor Location	☐ Indoor ☒ Outdoor			75% Load 72.0 %			
Altitude	Less than 1000 meter			100% Load 75.5 %			
Relative Humidity	Less than 80 %		Power Factor(p.u)	50% Load 0.610			
Ambient Temp.	40 deg. C (Max.)			75% Load 0.750			
Duty Type	Continuos (S1)			100% Load 0.815			
Service Factor	1.15		Speed at Full Load	3500 r.p.m			
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Torque	Full Load 0.2 kg·m			
Bearing	Type	Anti-Friction		Locked-rotor** 350 %			
	DE/N-DE	6204ZZ / 6203ZZ		Breakdown** 390 %			
	Lubricant	Grease(SML4)	Moment of Inertia (J)	Load(Max.) 0.150 kg·m²			
External Thrust	Not applicable			Motor 0.00075 kg·m²			
Coupling Method	☒ Direct ☐ V-Belt		Sound Pressure Level (No-load & mean value at 1m from motor)	73 dB(A)			
Shaft Extension	☒ Single ☐ Double		Vibration	1.6 mm/sec (r.m.s)			
Terminal	Main	☐ Steel ☒ Cast Iron	Permissible number of consecutive starts	Cold 3 times	Hot 2 times		
Box	Aux.	☐ Yes ☒ No	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
	Location	Refer to Outline Drawing	SUBMITTAL DRAWING				
Application			Outline Dimension Drawing \ Motor Weight(Approx.)				
Area classification	Non-Hazardous		B3		kg		
Type of Ex-Protection	Not applicable		B5		kg		
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		V1	227B5060TA02	14 kg		
ACCESSORIES			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

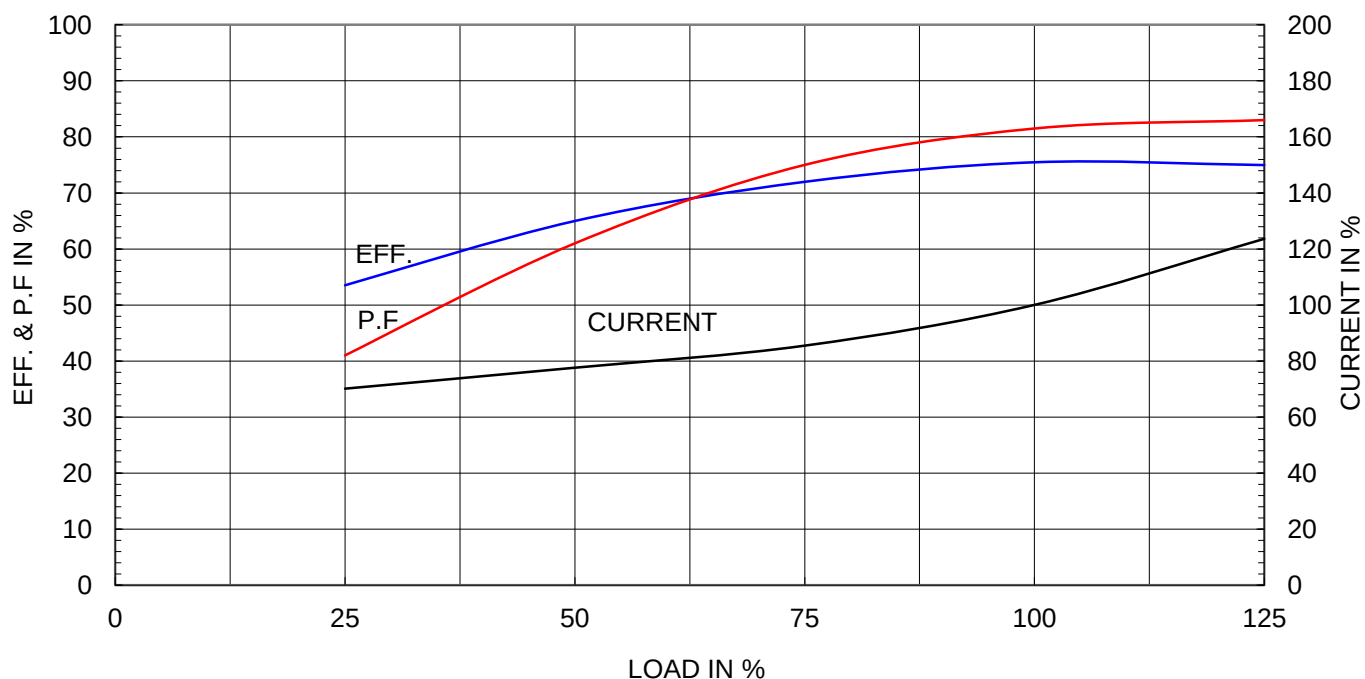
Type	:	HS
Full Load Torque	:	0.2 Kg.m
Motor moment of Inertia (J)	:	##### Kg.m ²
Load moment of Inertia (J)	:	0.150 Kg.m ²

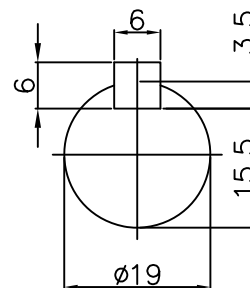
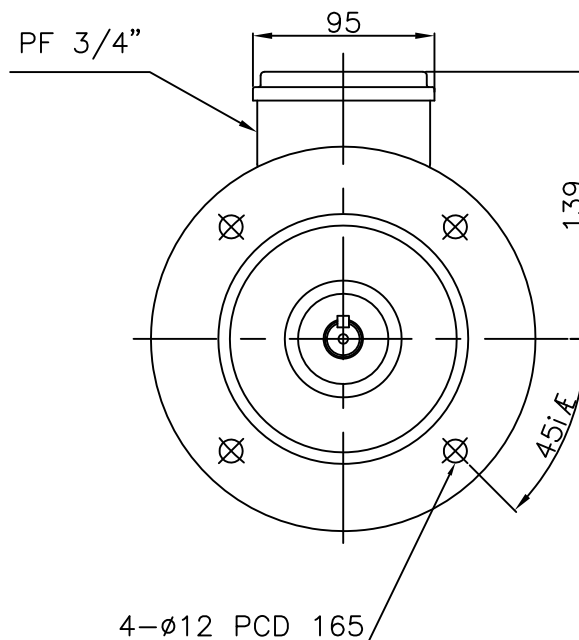
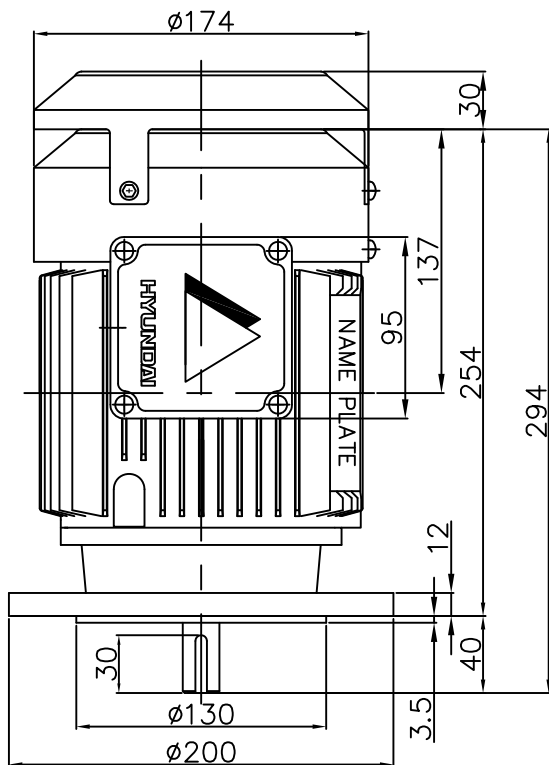
0.75 kW		2 P		60 Hz	
Speed at Full Load :				3500 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	1.6A	1.9A	3.2A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





NOTE

1. TOLERANCE :

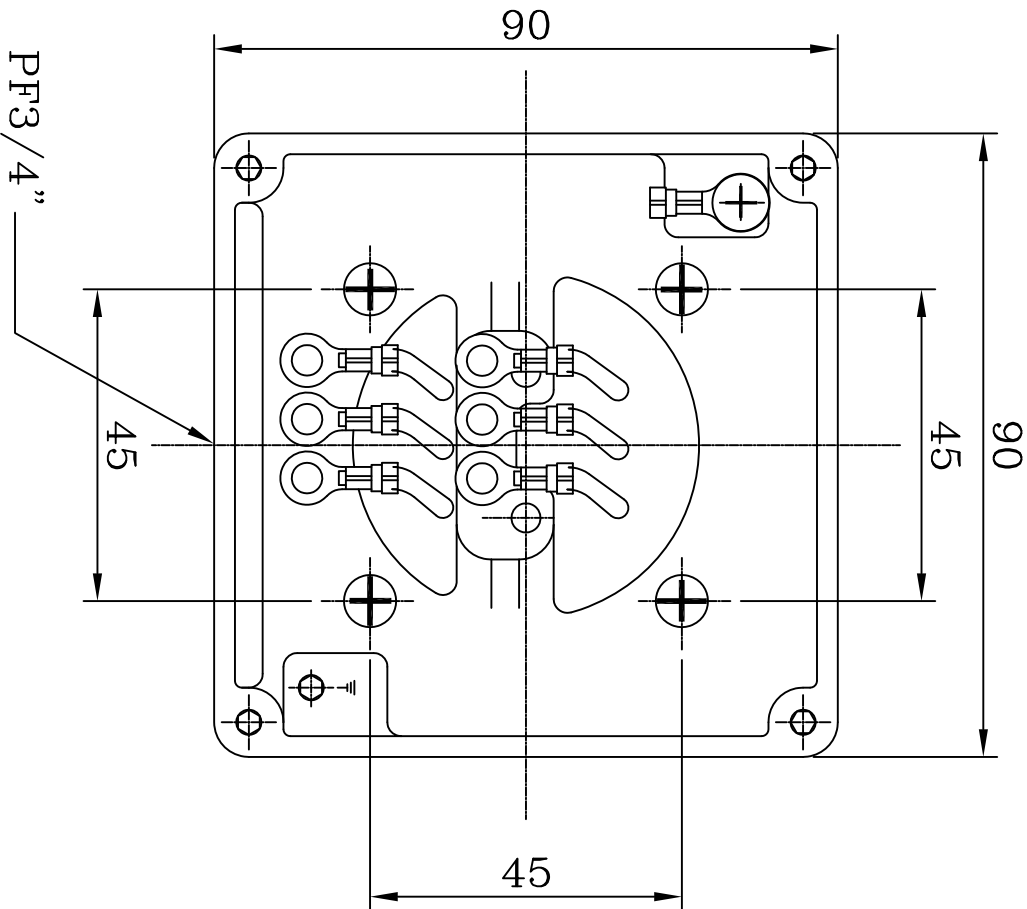
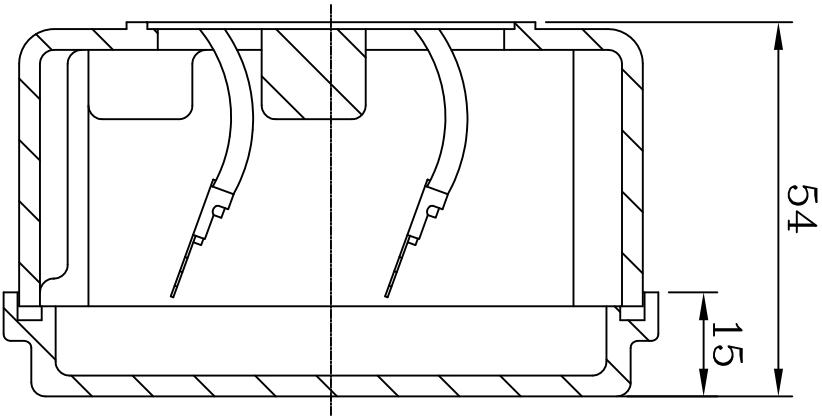
FLANGE HOLES	$\phi 12^{+0.43}_{-0.}$
RABBET DIAMETER	$\phi 130^{+0.014}_{-0.011}$
SHAFT DIAMETER	$\phi 19^{+0.009}_{-0.004}$
KEYWAY WIDTH	$6^{+0}_{-0.03}$
KEYWAY DEPTH	$15.5^{+0}_{-0.1}$
KEY SIZE	6*6*30

2. REMARK

DRIP COVER WILL BE ATTACHED PER REQUEST FROM CUSTOMER ONLY

*AL CONDUIT BOX

APPD BY	B.M.YOO	UNIT	mm	SUBJECT	FF165, IEC80	CAD PROJ \ FILE
CHKD BY	S.W.SEO	SCALE	1/0.34			IP 54,55,56
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	081\081AS	Sheet No. of
				DWG NO	227B5060TA02	Revision No. 0



REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
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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	TITLE	CONDUIT BOX ASSEMBLY	6 LEADS	
CHKD BY	J. S. JEONG	PROJECN	3 (3rd Angle)	REF. NO	227B1537AA1	Sheet No.	of
DSND BY	C. S. KO	DATE	2005.12.05	DWG NO	227B1537AA1	Revision No.	0