

AC INDUCTION MOTOR DATA SHEET

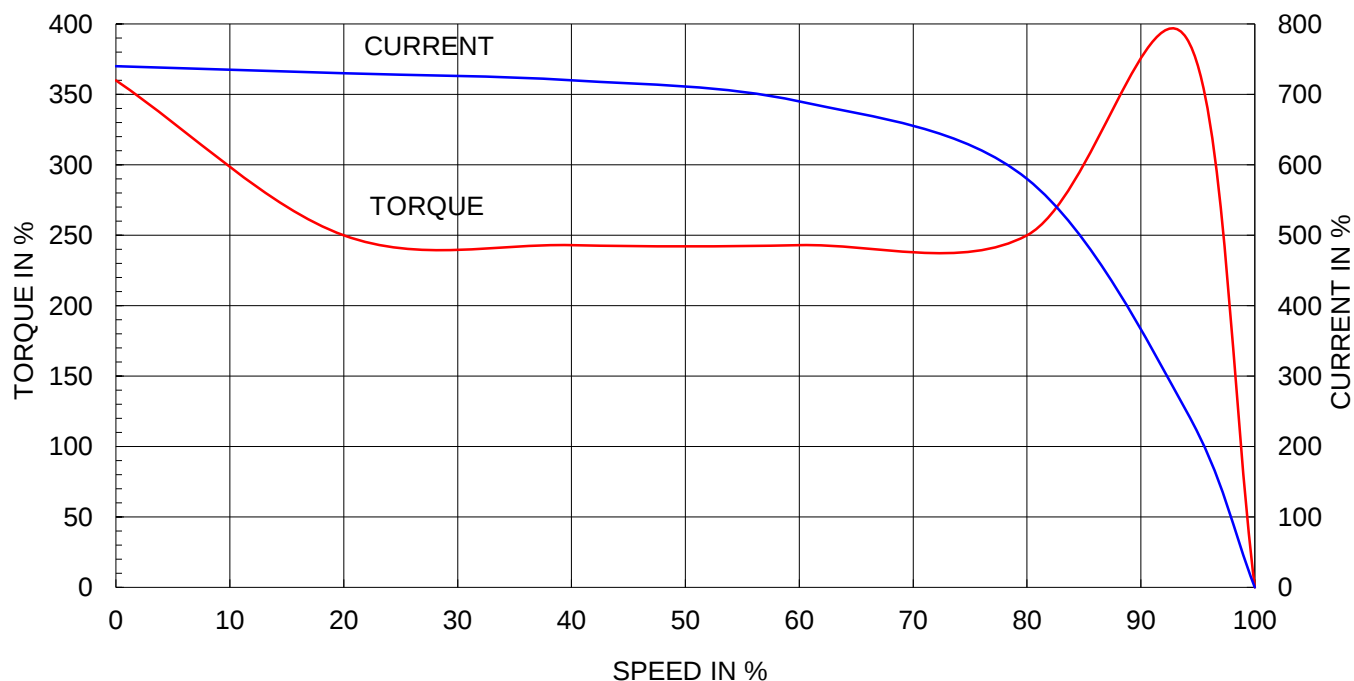
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	80M		Rated Output	0.75 kW 1 HP			
Type	HS		Number of Poles	4			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	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	1.7 A 2.0 A 3.4 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	740 %	740 % 740 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 76.5 %				
Motor Location	☒ Indoor ☐ Outdoor		75% Load 81.0 %				
Altitude	Less than 1000 meter		100% Load 82.5 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.485				
Duty Type	Continuos (S1)		75% Load 0.610				
Service Factor	1.15		100% Load 0.704				
Mounting	☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1735 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6204ZZ / 6203ZZ	Full Load 0.4 kg·m				
	Lubricant	Grease(SML4)	Locked-rotor** 360 %				
External Thrust	Not applicable		Breakdown** 390 %				
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.) 0.625 kg·m²				
Terminal	Main	☐ Steel ☒ Cast Iron	Motor 0.0016 kg·m²				
Box	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	0 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	227B5023TA02	12 kg		
			V1		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 shal

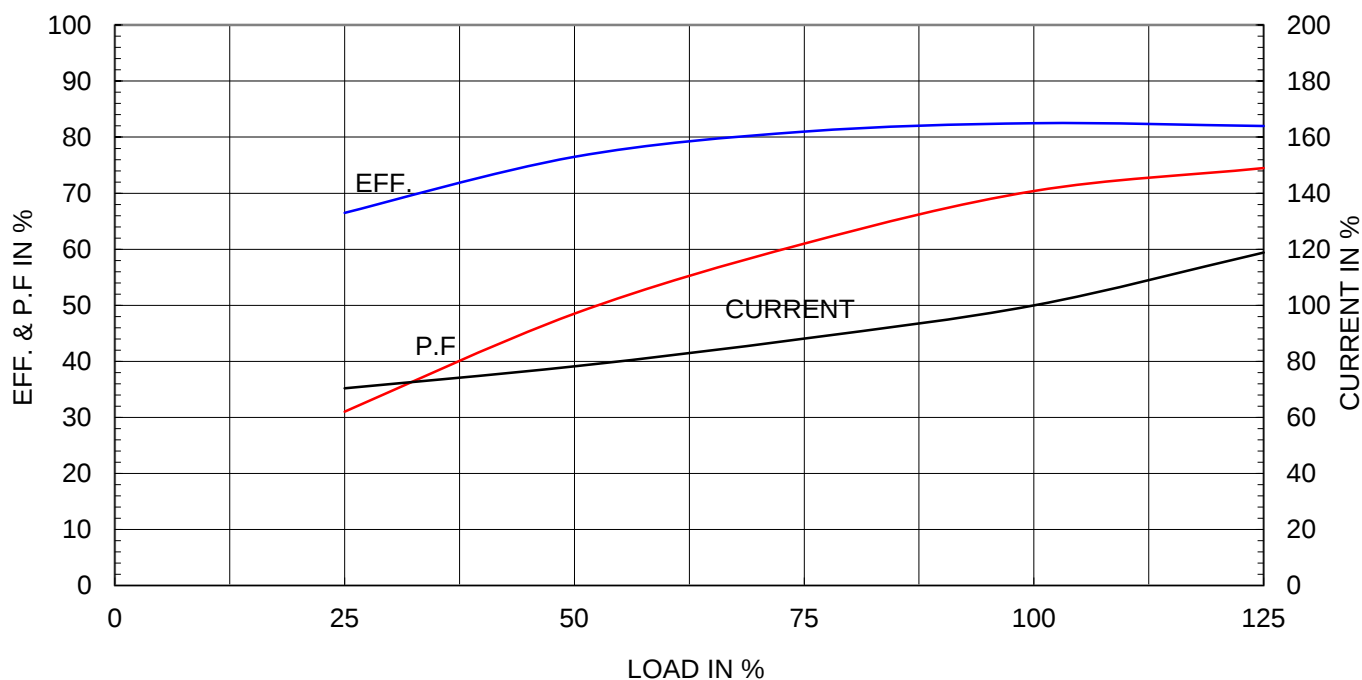
Type	:	HS
Full Load Torque	:	0.4 Kg.m
Motor moment of Inertia (J)	:	0.002 Kg.m ²
Load moment of Inertia (J)	:	0.625 Kg.m ²

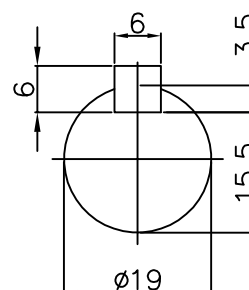
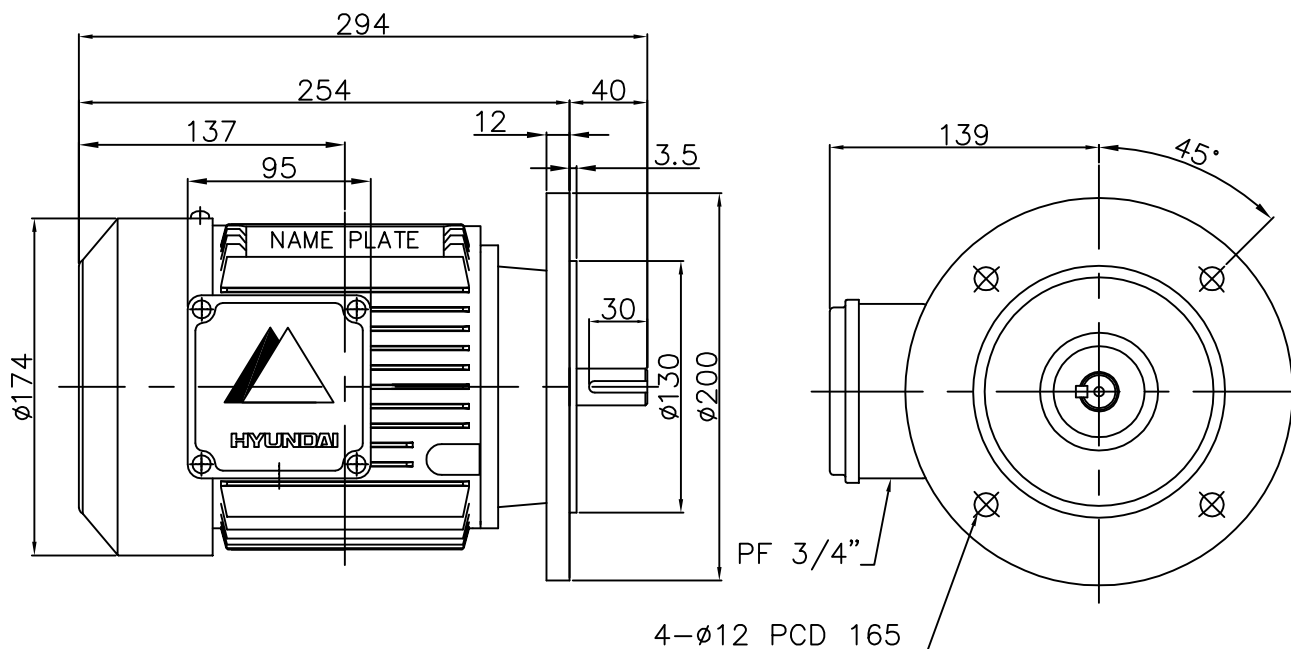
0.75 kW		4 P		60 Hz	
Speed at Full Load :				1735 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	1.7A	2.0A	3.4A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





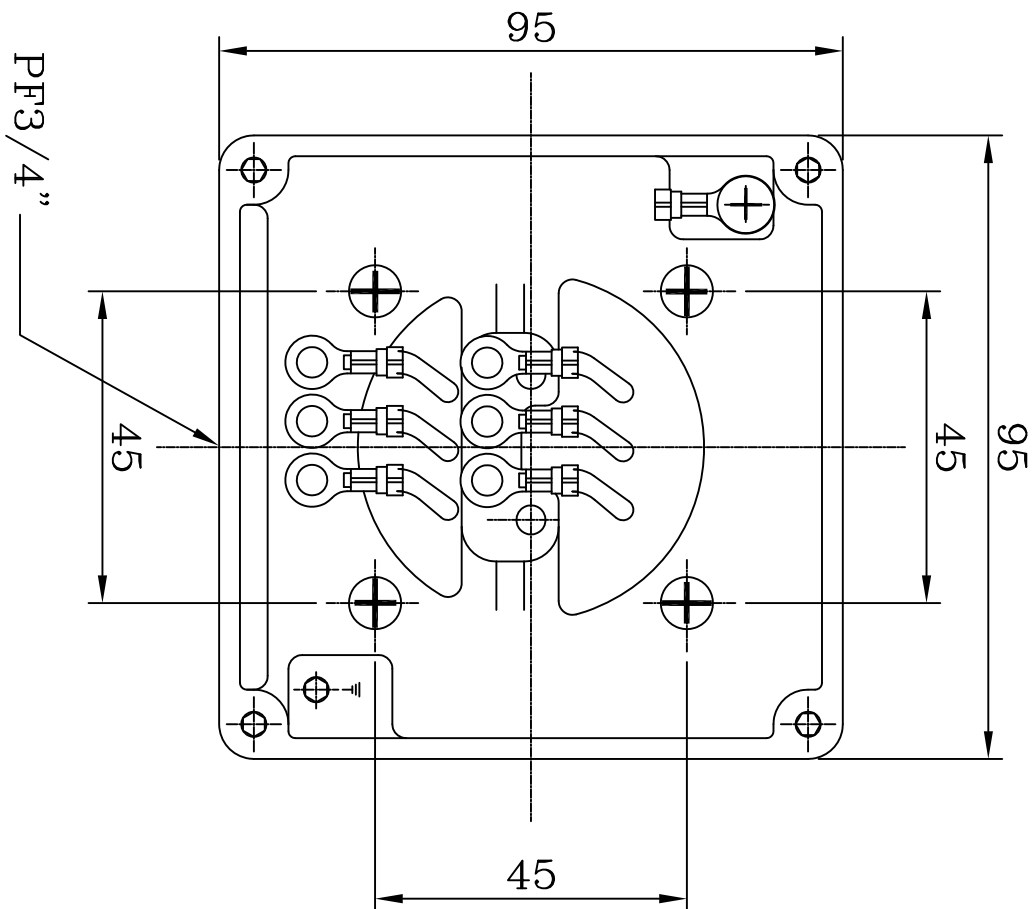
NOTE

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

*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			TITLE	OUTLINE	IP	54,55,56
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle						
DSND BY	C.S.KO	DATE	2008.1.12						
 HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	081\081ASIP541	Sheet No.	of		
				DWG NO	227B5023TA02	Revision No.	0		



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