

AC INDUCTION MOTOR DATA SHEET

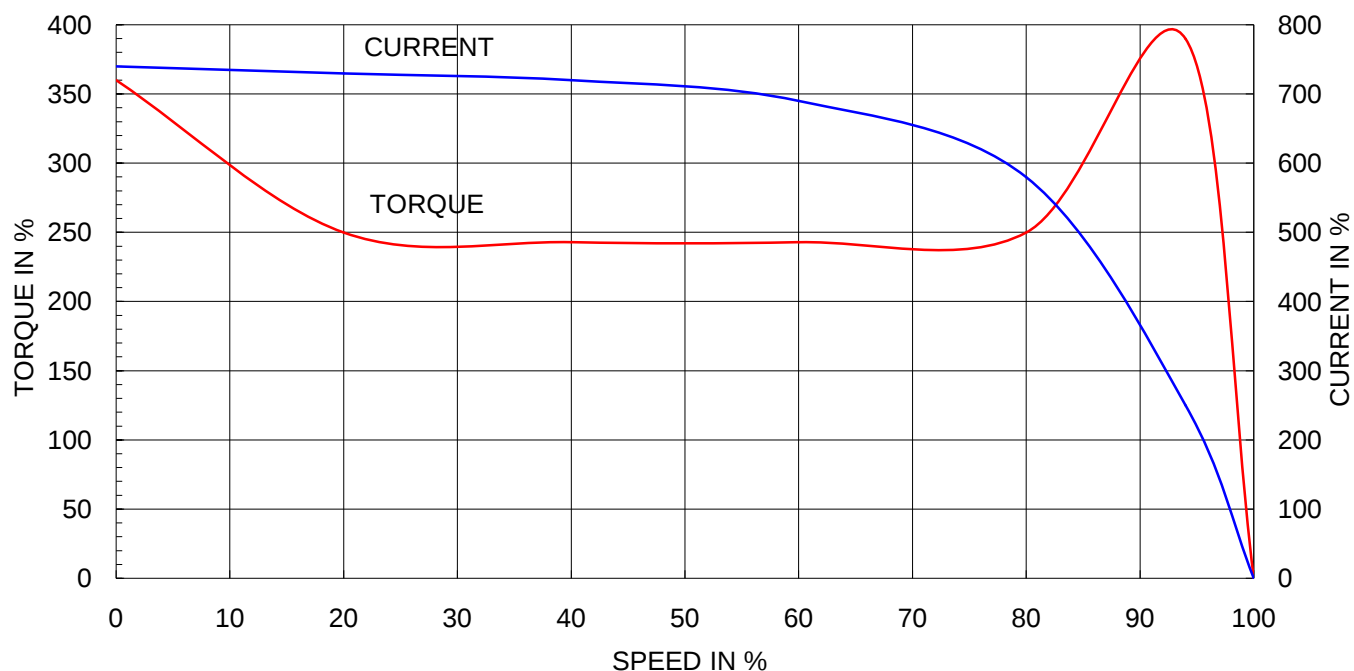
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	80M		Rated Output	0.75 kW 1 HP			
Type	HS		Number of Poles	4			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	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 Box	Main	☐ Steel ☒ Cast Iron	Motor	0.0016 kg·m²			
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)	0 dB(A)			
	Location	Refer to Outline Drawing	Vibration	1.6 mm/sec (r.m.s)			
Application			Permissible number of consecutive starts	Cold	3 times		
Area classification	Non-Hazardous		Hot	2 times			
Type of Ex-Protection	Not applicable		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		SUBMITTAL DRAWING				
ACCESSORIES			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B5000TA02	12 kg		
			B5		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 shall

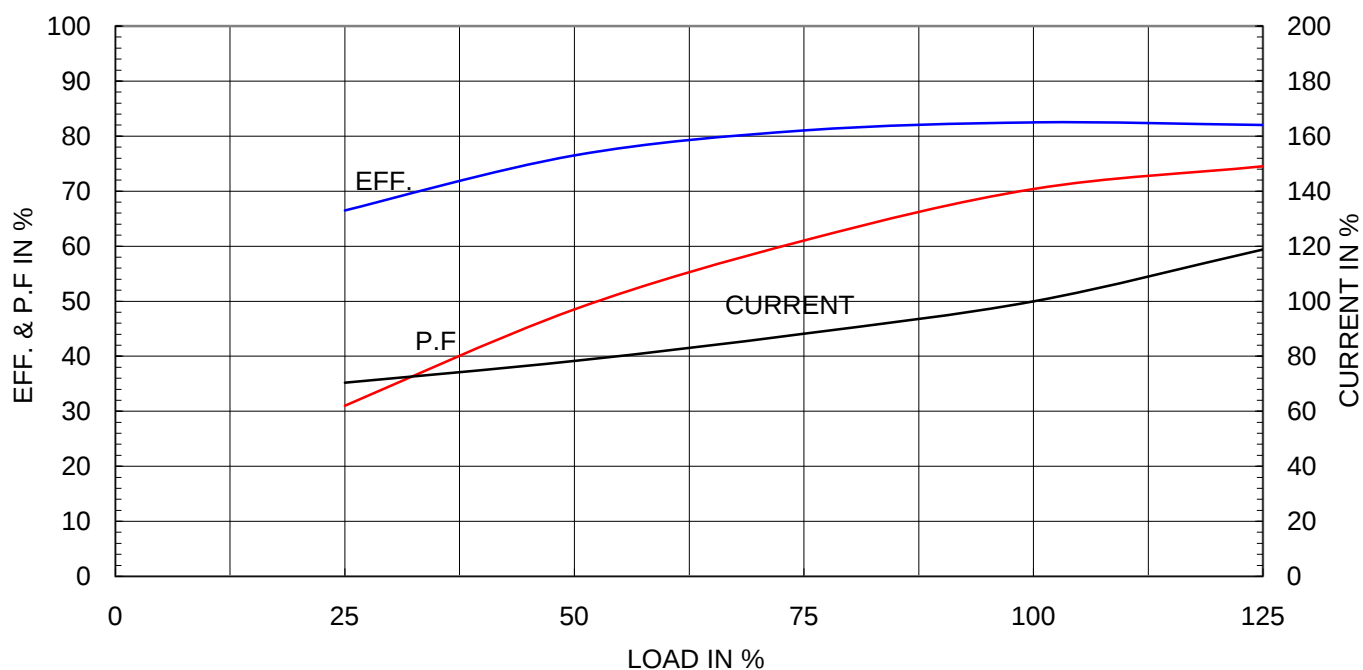
Type	:	HS
Full Load Torque	:	0.4 Kg.m
Motor moment of Inertia (J)	:	0.002 Kg.m ²
Load moment of Inertia (J)	:	0.625 Kg.m ²

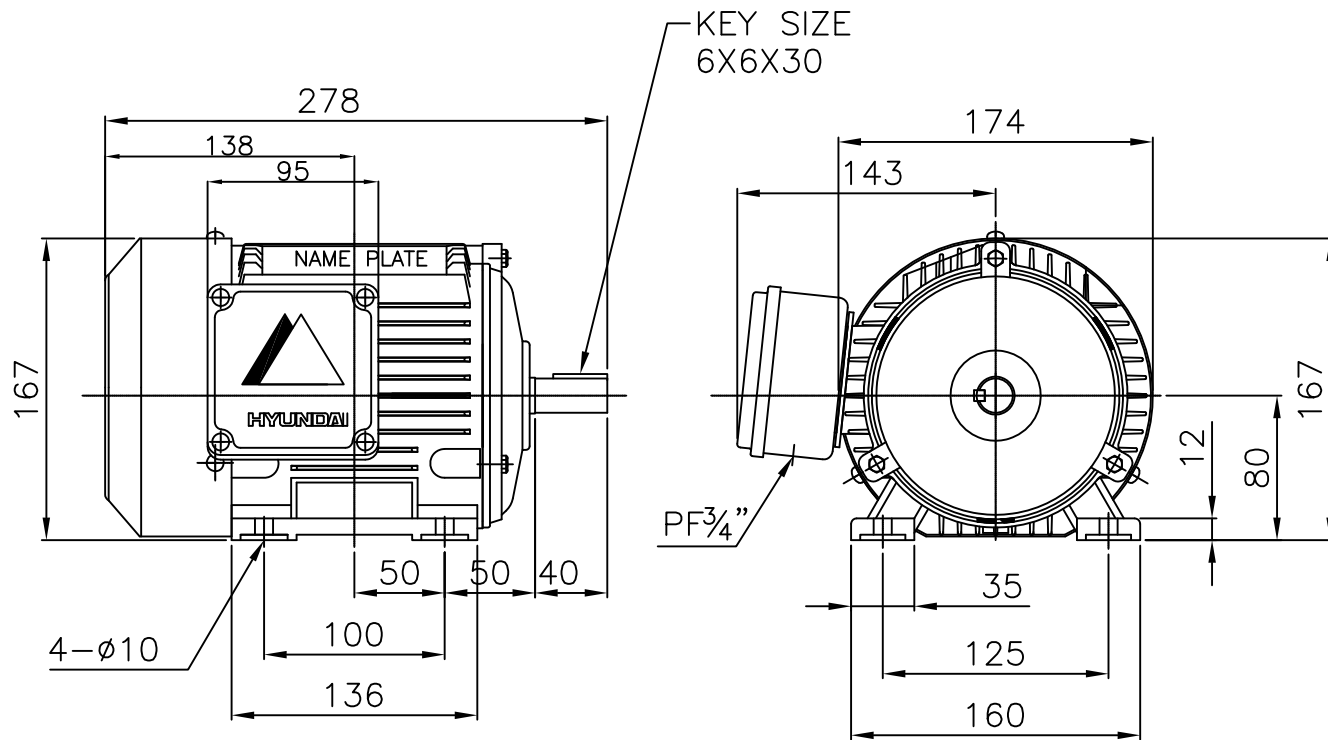
0.75 kW		4 P		60 Hz	
Speed at Full Load :				1735 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	1.7A	2.0A	3.4A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

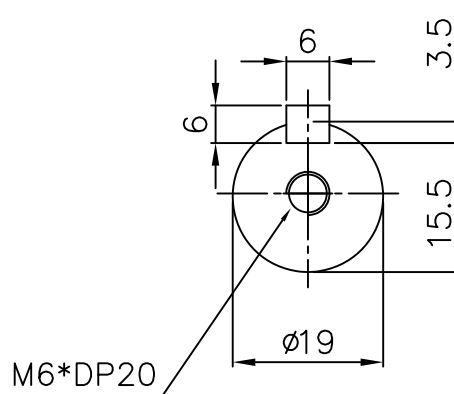




NOTE

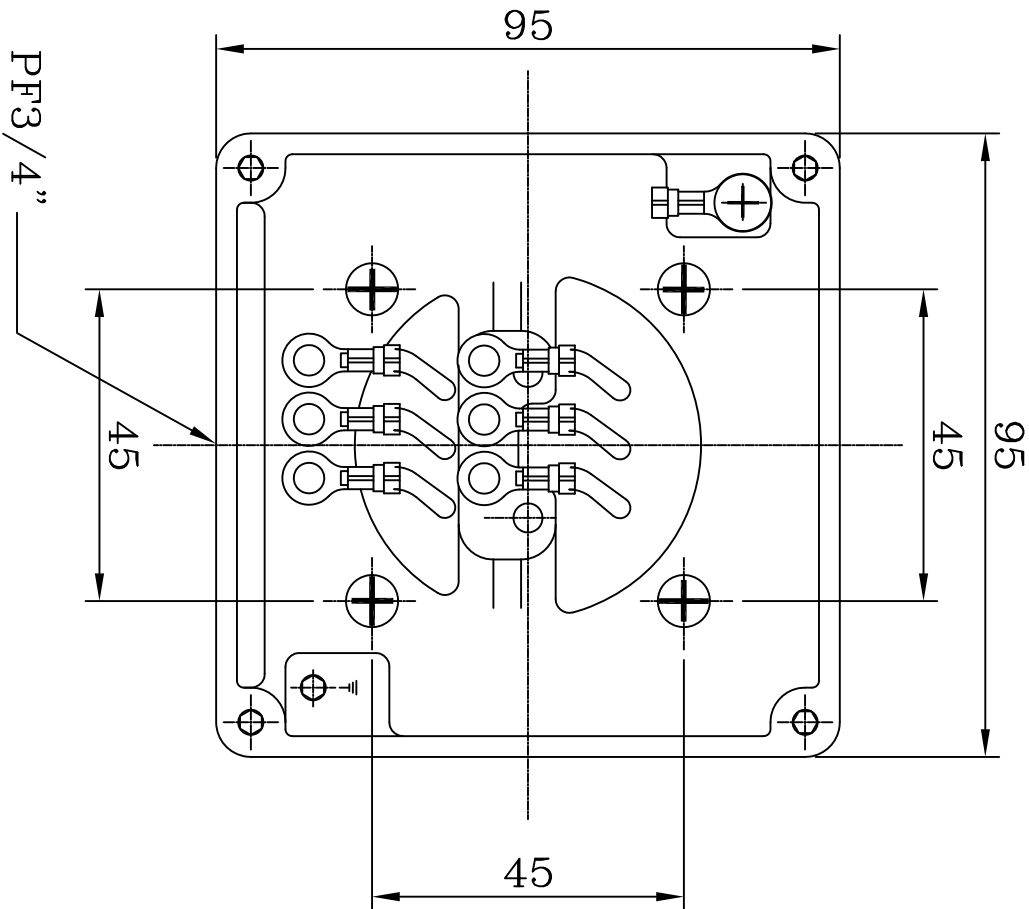
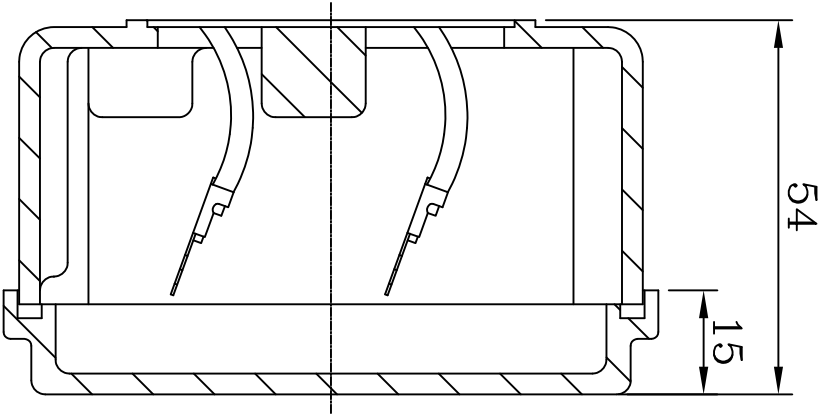
1.TOLERANCE :

CENTER HEIGHT	80	$+0$ -0.5
BASE HOLES	Ø10	$+0.36$ -0
SHAFT DIAMETER	Ø19	$+0.009$ -0.004
KEYWAY WIDTH	6	$+0$ -0.03
KEYWAY DEPTH	15.5	$+0$ -0.1



*AL CONDUIT BOX

APPD BY	B.M.YOO	UNIT	mm	SUBJECT	IEC 80M	CAD PROJ \ FILE
CHKD BY	S.W.SEO	SCALE	1/5	TITLE	IP54,55,56	
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle	OUTLINE		
DSND BY	C.S.KO	DATE	2008.01.12			
HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	B5000TA02	Sheet No. of
				DWG NO	227B5000TA02	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	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