

AC INDUCTION MOTOR DATA SHEET

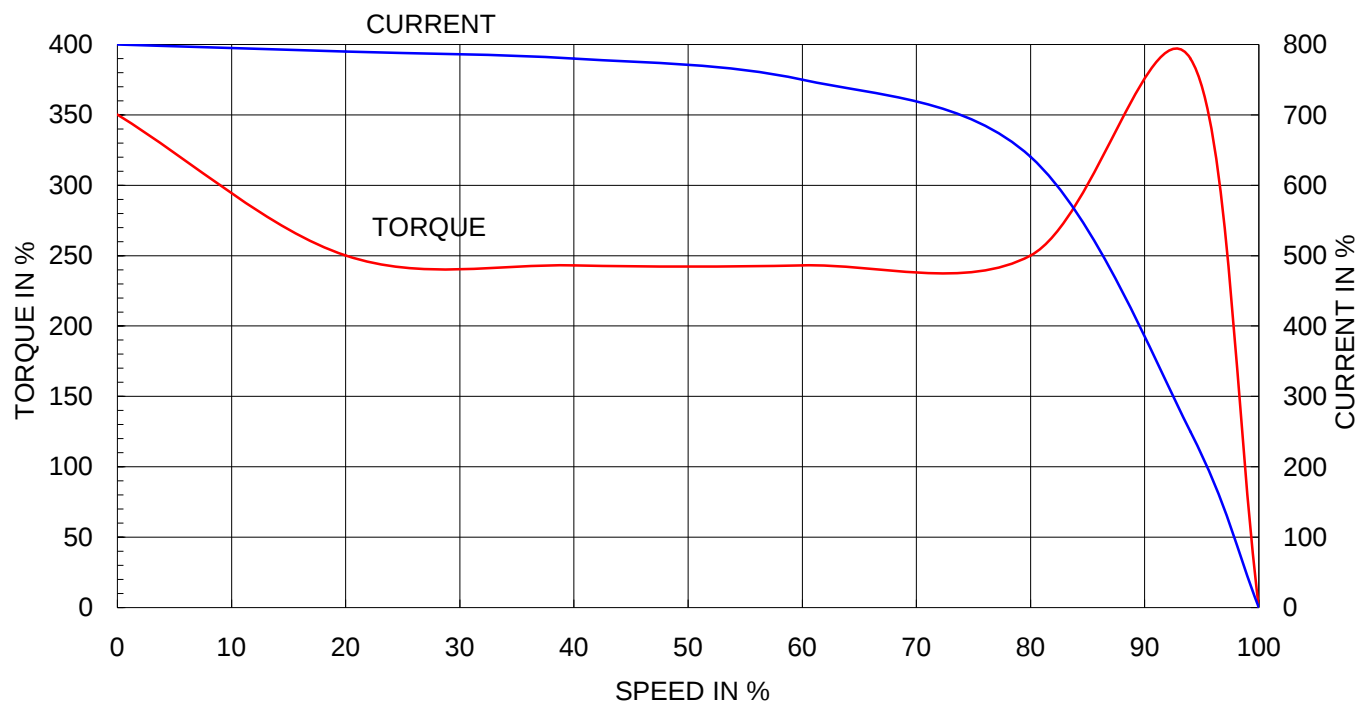
Model No.or RFQ No.		Item No.		Rev. No. [0]		
Project Name		Project No.		Quantity sets		
GENERAL SPECIFICATION			PERFORMANCE DATA			
Frame Size	80M	Rated Output	0.75 kW 1 HP			
Type	HS	Number of Poles	2			
Enclosure(Protection)	Totally Enclosed (IP55)	Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)	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			
Motor Location	☒ Indoor ☐ Outdoor	50% Load 65.0 %				
Altitude	Less than 1000 meter	75% Load 72.0 %				
Relative Humidity	Less than 80 %	100% Load 75.5 %				
Ambient Temp.	40 deg. C (Max.)	Power Factor(p.u)				
Duty Type	Continuos (S1)	50% Load 0.610				
Service Factor	1.15	75% Load 0.750				
Mounting	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5	100% Load 0.815				
Bearing	Type	Anti-Friction				
	DE/N-DE	6204ZZ / 6203ZZ				
	Lubricant	Grease(SML4)				
External Thrust	Not applicable					
Coupling Method	☒ Direct ☐ V-Belt	Speed at Full Load 3500 r.p.m				
Shaft Extension	☒ Single ☐ Double	Torque				
Terminal Box	Main	☐ Steel ☒ Aluminium				
	Aux.	☐ Yes ☒ No				
	Location	Refer to Outline Drawing				
Application		Moment of Inertia (J)				
Area classification	Non-Hazardous	Load(Max.) 0.150 kg·m²				
Type of Ex-Protection	Not applicable	Motor 0.00075 kg·m²				
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)	Sound Pressure Level (No-load & mean value at 1m from motor)				
ACCESSORIES		73 dB(A)				
		Vibration 1.6 mm/sec (r.m.s)				
		Permissible number of consecutive starts				
		Cold 3 times				
		Hot 2 times				
		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
		SUBMITTAL DRAWING				
		Outline Dimension Drawing \ Motor Weight(Approx.)				
		B3	227B5000TA02	12 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

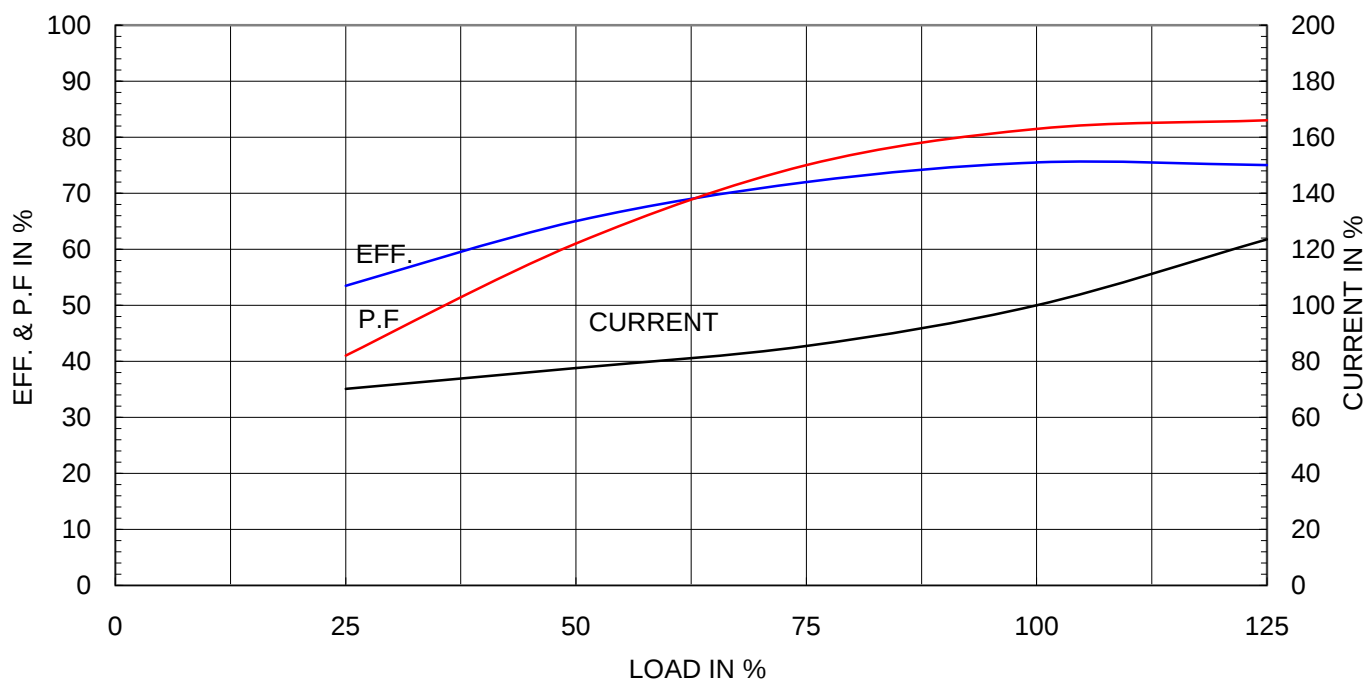
Type	:	HS
Full Load Torque	:	0.2 Kg.m
Motor moment of Inertia (J)	:	0.0008 Kg.m ²
Load moment of Inertia (J)	:	0.150 Kg.m ²

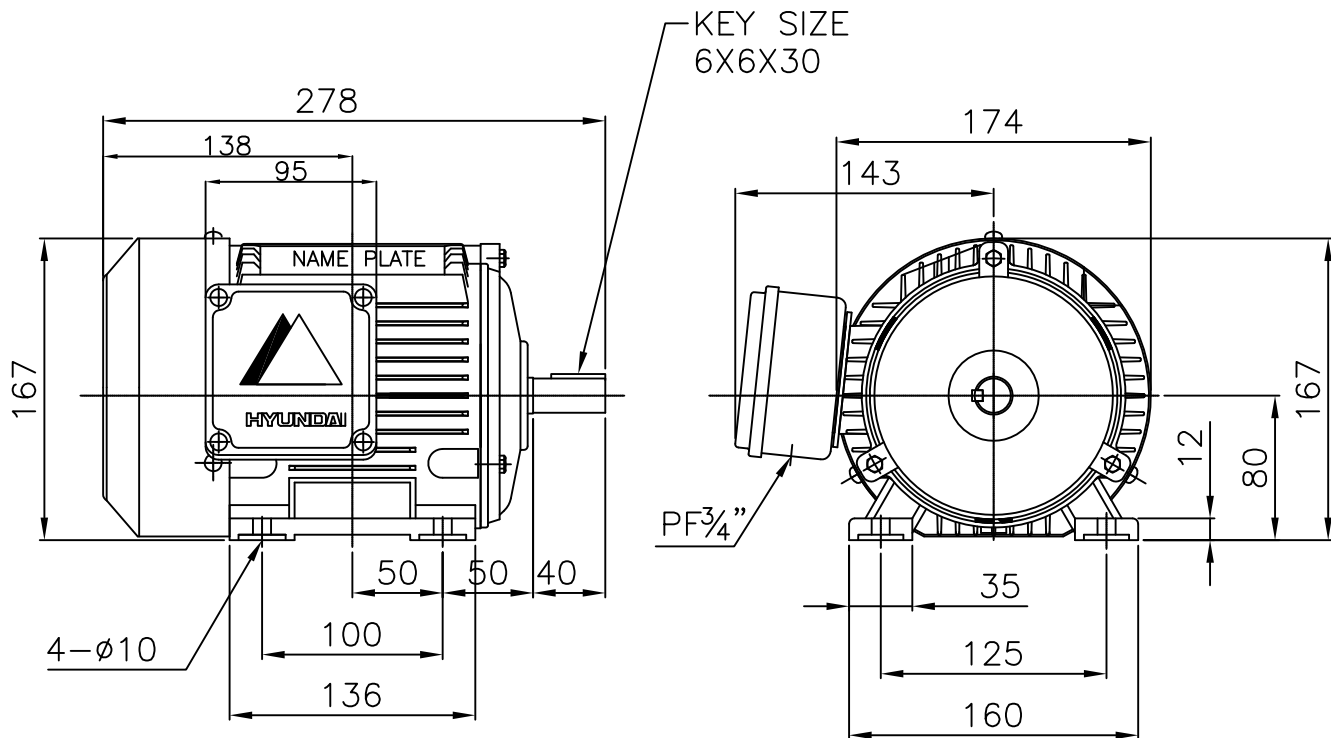
0.75 kW		2 P		60 Hz	
Speed at Full Load :				3500 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	1.6A	1.9A	3.2A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

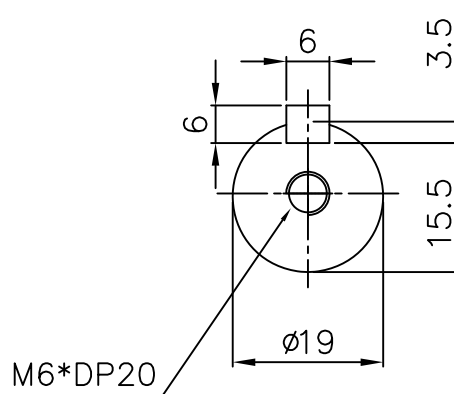




NOTE

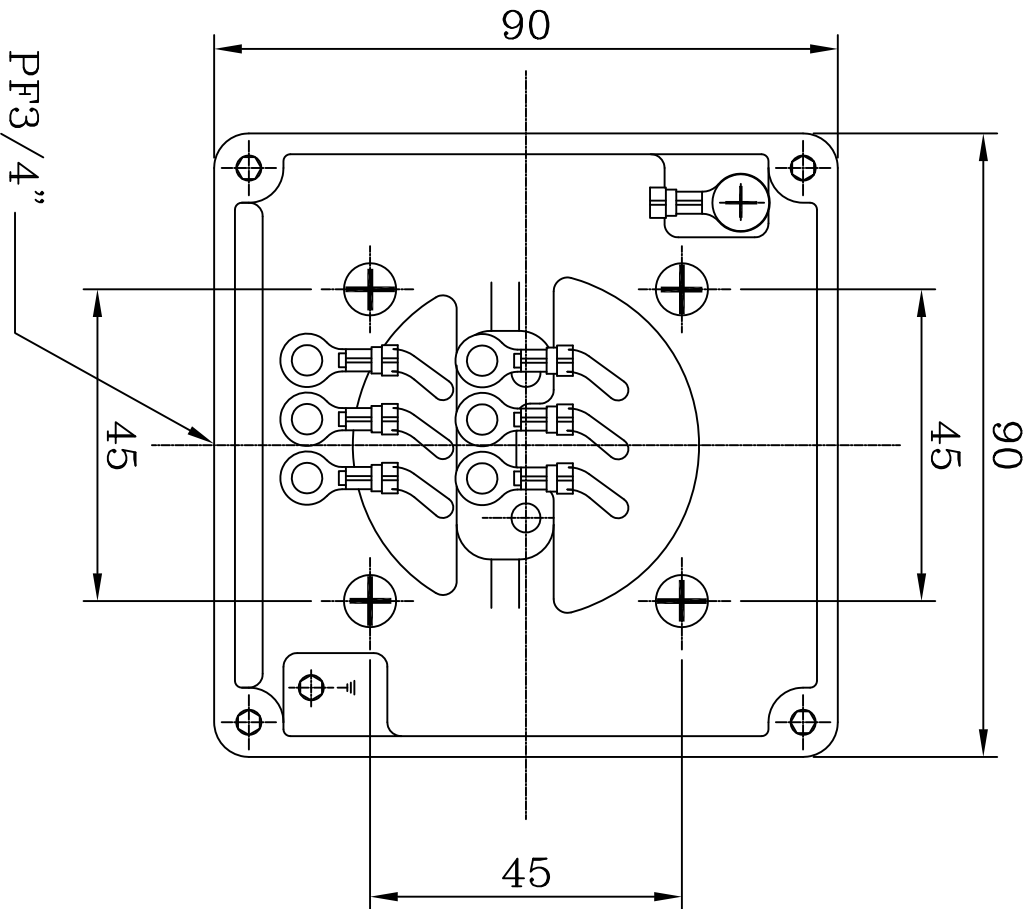
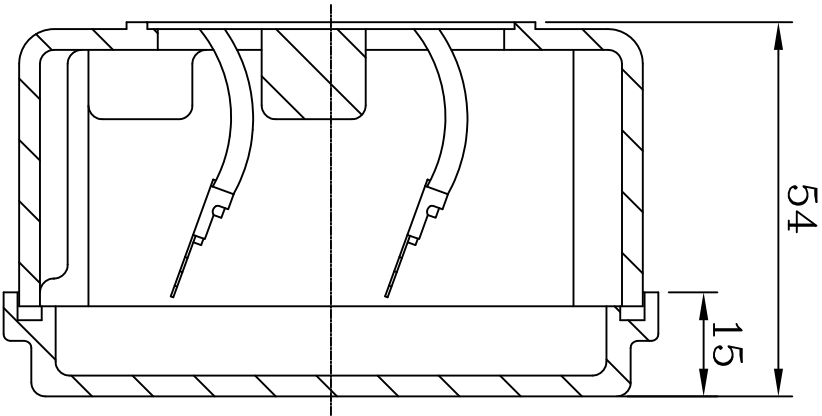
1.TOLERANCE :

CENTER HEIGHT	80	$+0$ -0.5
BASE HOLES	$\phi 10$	$+0.36$ -0
SHAFT DIAMETER	$\phi 19$	$+0.009$ -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	OUTLINE	IP54,55,56
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle			
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