

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*	<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> 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
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> 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	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> 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	
Duty Type	Continuos (S1)			0.471	
Service Factor	1.15			75% Load	
				0.594	
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5			100% Load	
				0.685	
Bearing	Type	Anti-Friction			
	DE/N-DE	6205ZZ / 6204ZZ			
	Lubricant	Grease(SML4)			
External Thrust	Not applicable				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Speed at Full Load			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	1145 r.p.m			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Torque		
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Full Load		0.6 kg-m
Location	Refer to Outline Drawing				
				Locked-rotor**	
				280 %	
				Breakdown**	
				330 %	
Application		Moment of Inertia (J)			
Area classification	Non-Hazardous	Load(Max.)		2.000 kg-m ²	
Type of Ex-Protection	Not applicable	Motor		0.003 kg-m ²	
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)	Sound Pressure Level (No-load & mean value at 1m from motor)			
		55 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)	

ACCESSORIES	SUBMITTAL DRAWING			
	Outline Dimension Drawing		Motor Weight(Approx.)	
	B3	227B5000TA03	18	kg
	B5	227B5023TA03	21	kg
	V1	227B5060TA03	21	kg
	B3/B5	227B5024TA03	21	kg
	Main T-Box Ass'y		227B1537AA1	

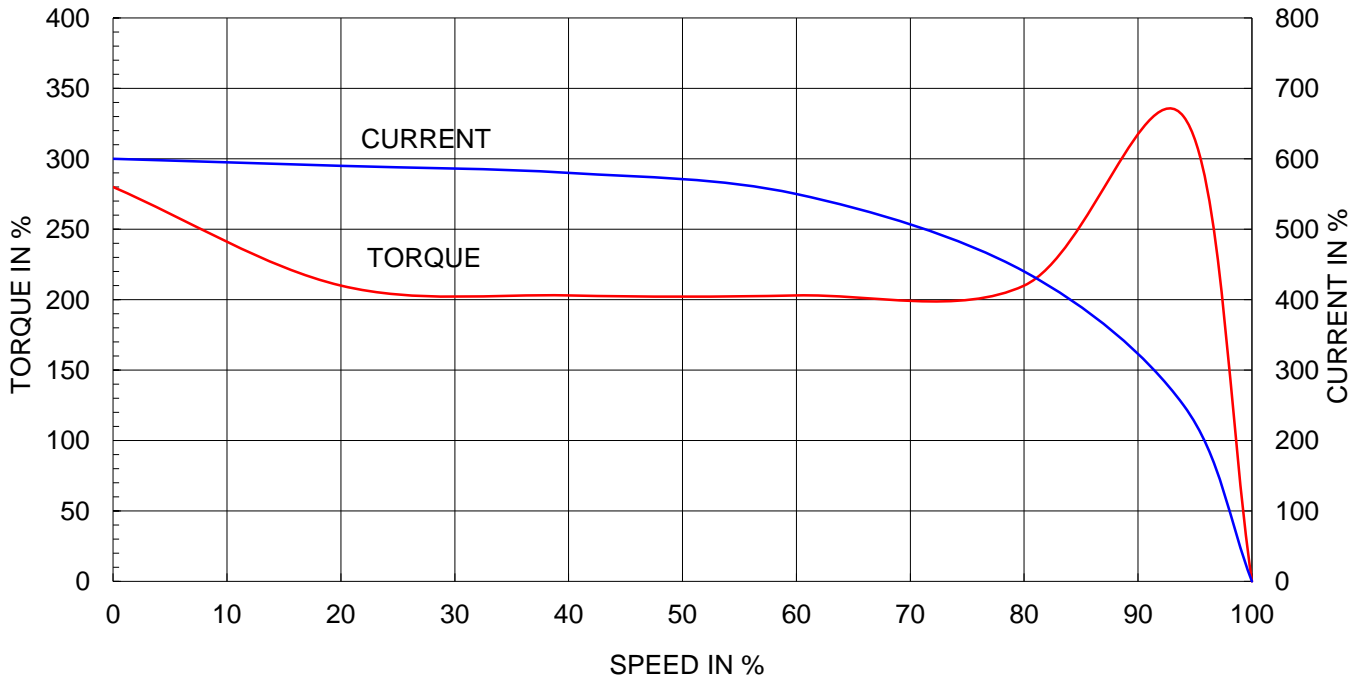
SPARE PARTS	REMARK
	High Efficiency
	* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise
Date	DSND CHKD CHKD APPD
2011-04-14	W.H.BACK S. J. RA O. J. KIM J. H. KIM

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.

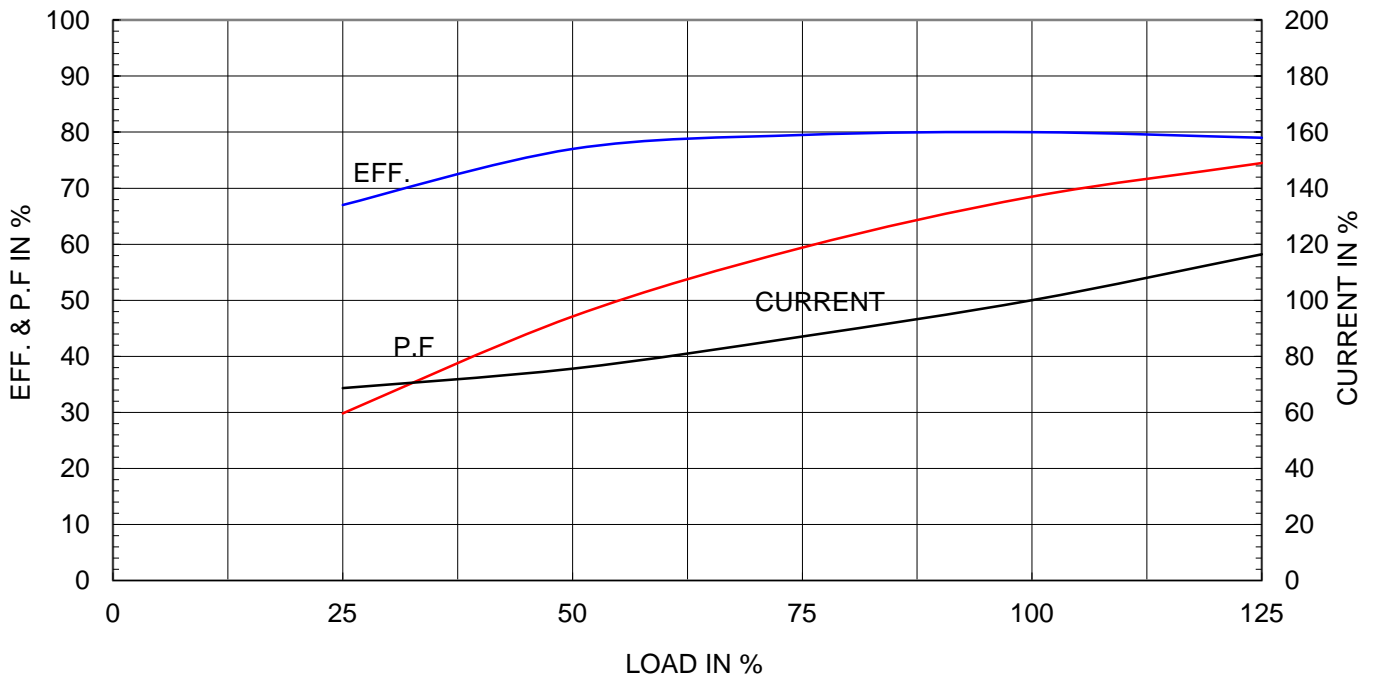
Type :	HS
Full Load Torque :	0.6 Kg.m
Motor moment of Inertia (J) :	0.003 Kg.m ²
Load moment of Inertia (J) :	2.000 Kg.m ²

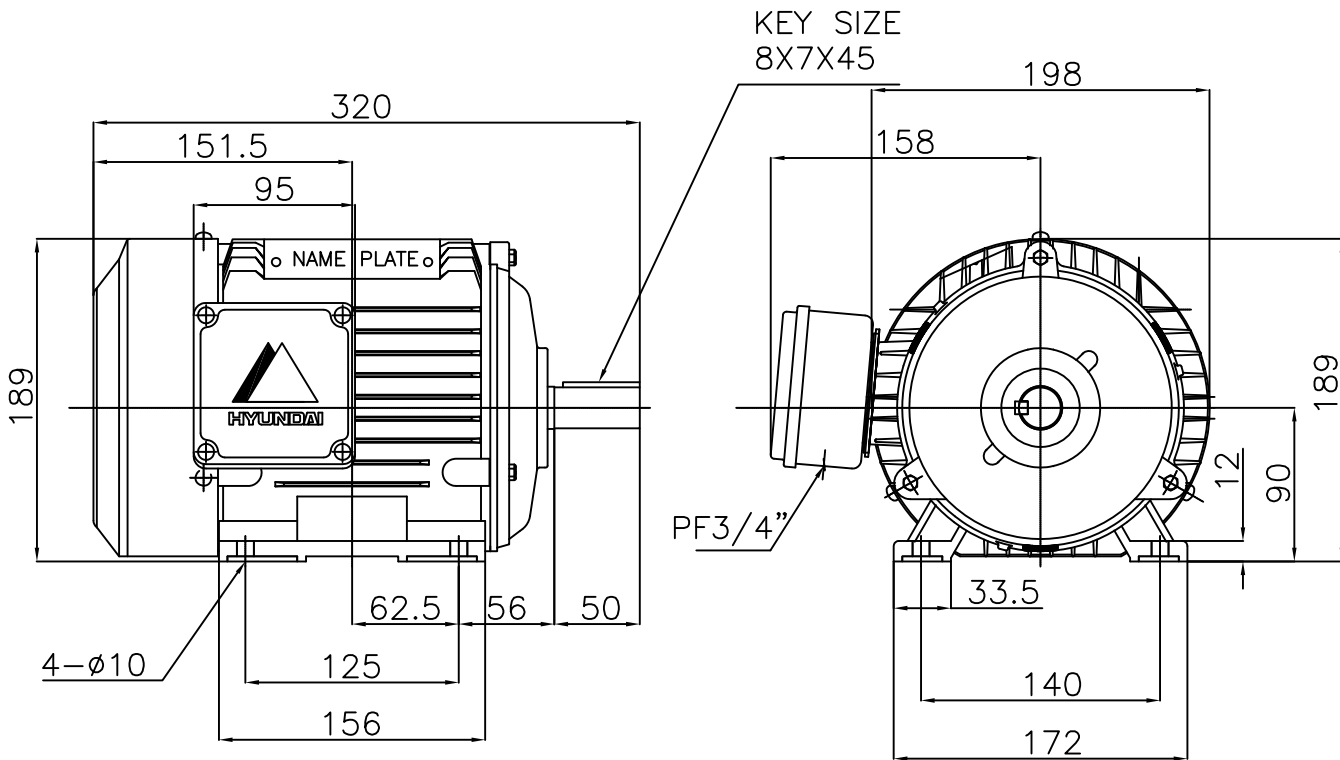
0.75 kW	6 P	60 Hz
Speed at Full Load :		1145 RPM
Rated Voltage	440V	380V
Full Load Current	1.8A	2.1A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

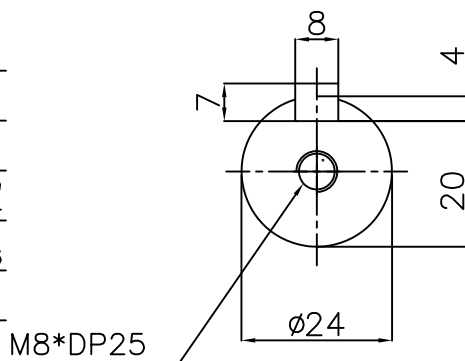




NOTE

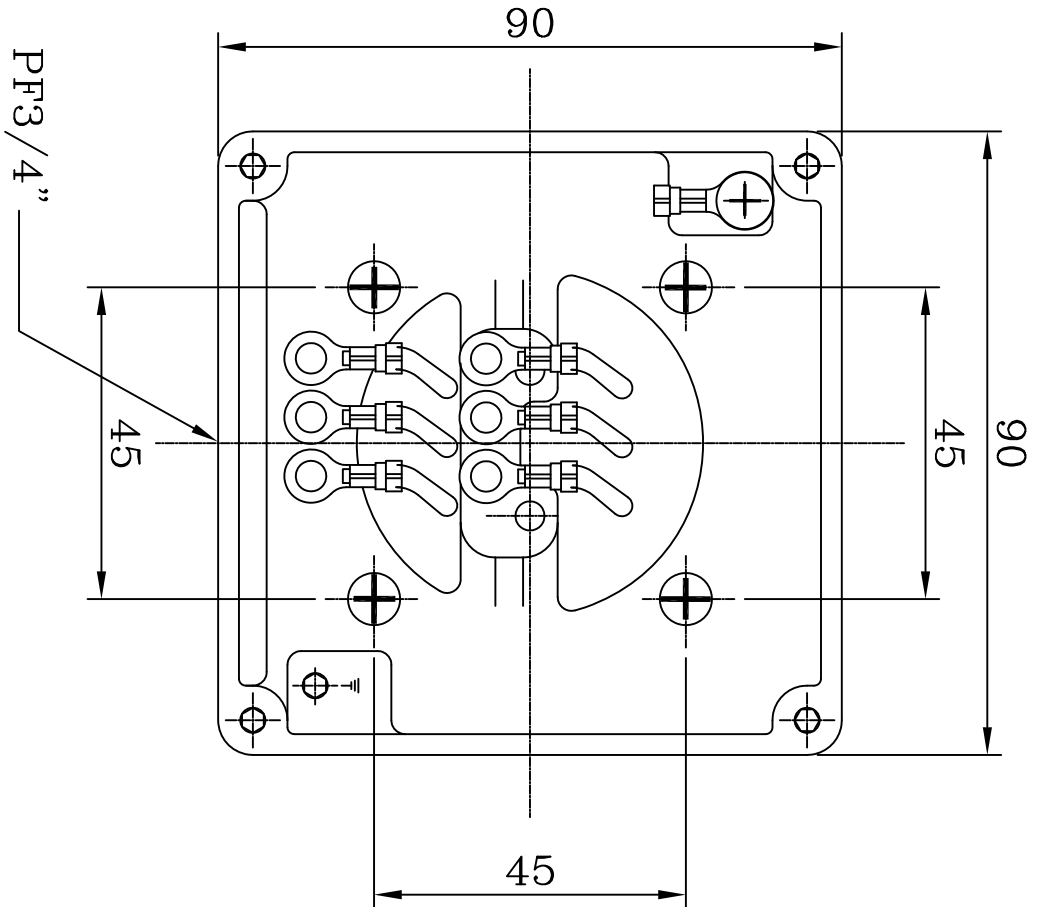
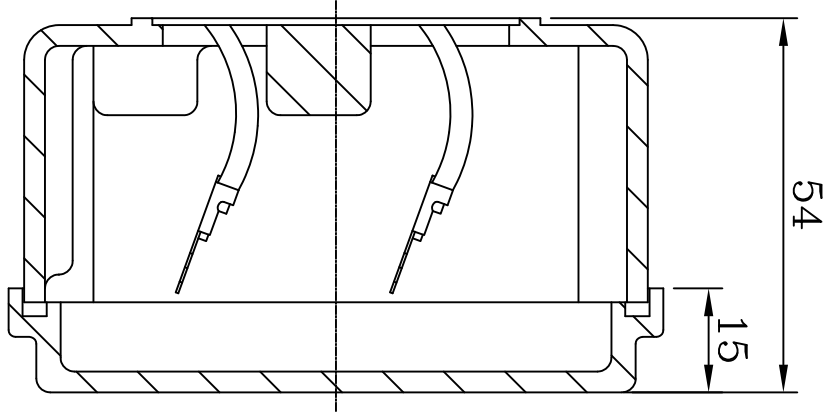
1.TOLERANCE :

CENTER HEIGHT	90	+0	-0.5
BASE HOLES	ø10	+0.36	-0
SHAFT DIAMETER	ø24	+0.009	-0.004
KEYWAY WIDTH	8	+0	-0.036
KEYWAY DEPTH	4	+0.2	-0



*AL CONDUIT BOX

APPD BY	B.M.YOO	UNIT	mm	SUBJECT	IEC 90L	CAD PROJ \ FILE
CHKD BY	S.W.SEO	SCALE	1/5			IP54,55,56
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	C.S.KO	DATE	2008.01.12			



REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
	APPD BY B. M. YOO						
	CHKD BY S. W. SEO	UNIT MM	SCALE 1/0.98				
	CHKD BY J. S. JEONG	PROJECT N 3 (3rd Angle)					
	DSND BY C. S. KO	DATE 2005.12.05					
TITLE		CONDUIT BOX ASSEMBLY		REF. NO. 227B1537AA1		Sheet No. of	
SUBJECT		CB ASM (FR71--90)		DWG NO. 227B1537AA1		Revision No. 0	
REMARK		6 LEADS		CAD PROU FILE		IP95	



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