

AC INDUCTION MOTOR DATA SHEET

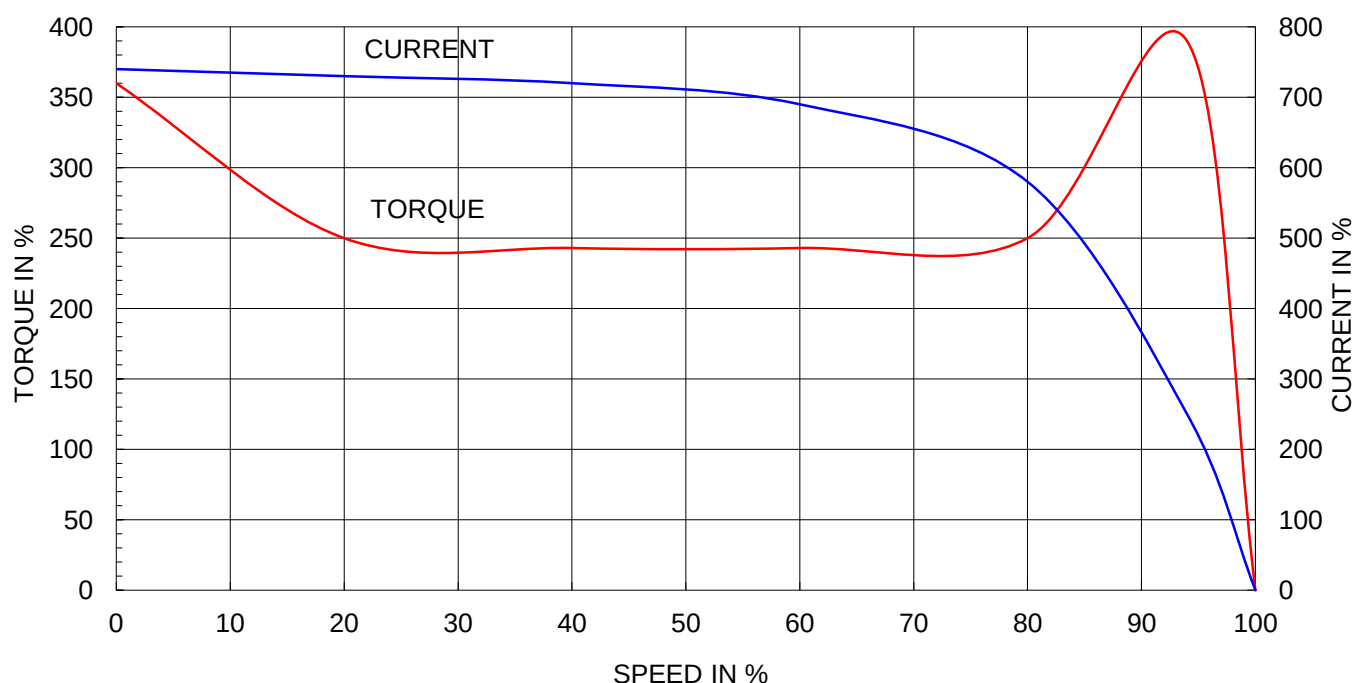
Model No.or RFQ No.		Item No.		Rev. No. [0]	
Project Name		Project No.		Quantity sets	
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	80M		Rated Output	0.75 kW 1 HP	
Type	HS		Number of Poles	4	
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage	
Method of Cooling	IC411(FC)		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		
Type of Ex-Protection	Not applicable		Cold 3 times		
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		Hot 2 times		
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
ACCESSORIES			SUBMITTAL DRAWING		
			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
			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

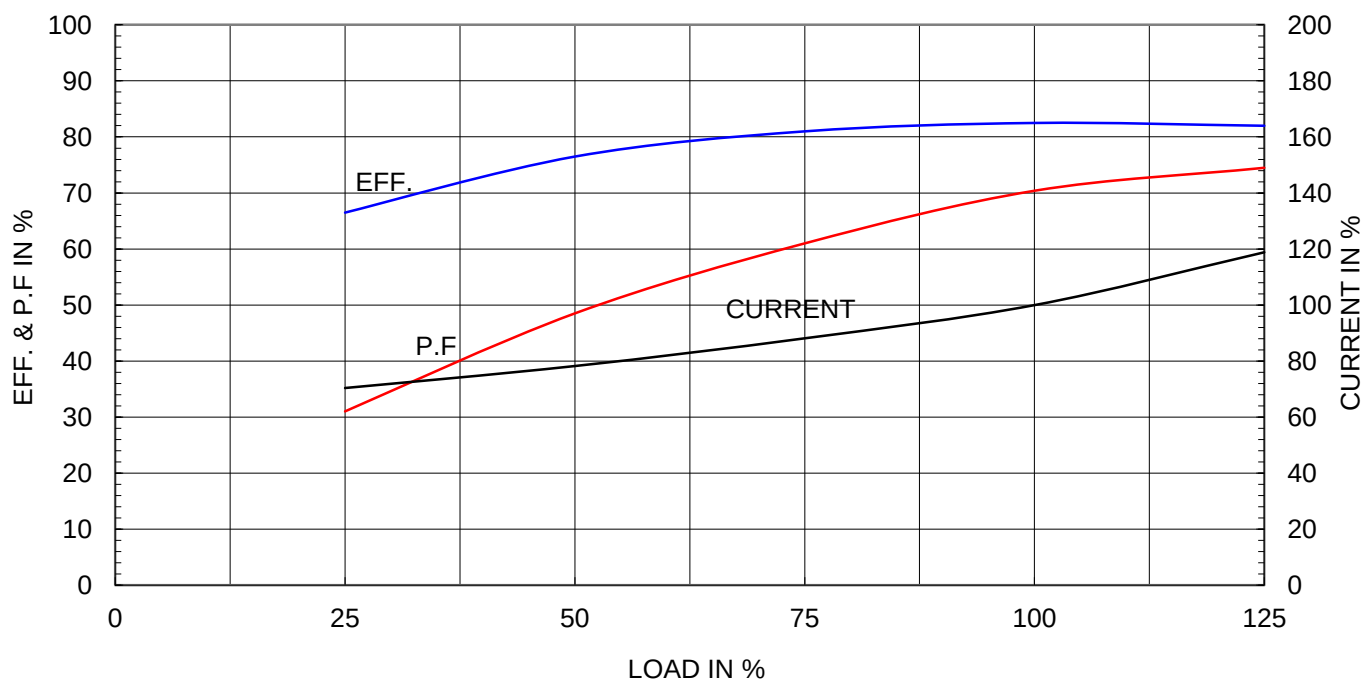
Type	:	HS
Full Load Torque	:	0.4 Kg.m
Motor moment of Inertia (J)	:	0.002 Kg.m ²
Load moment of Inertia (J)	:	0.625 Kg.m ²

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





HEAVY INDUSTRIES CO., LTD.

TEFC**THREE PHASE INDUCTION MOTOR****TYPE**

HL

AL FRAME

F

E

D

C

B

A

F

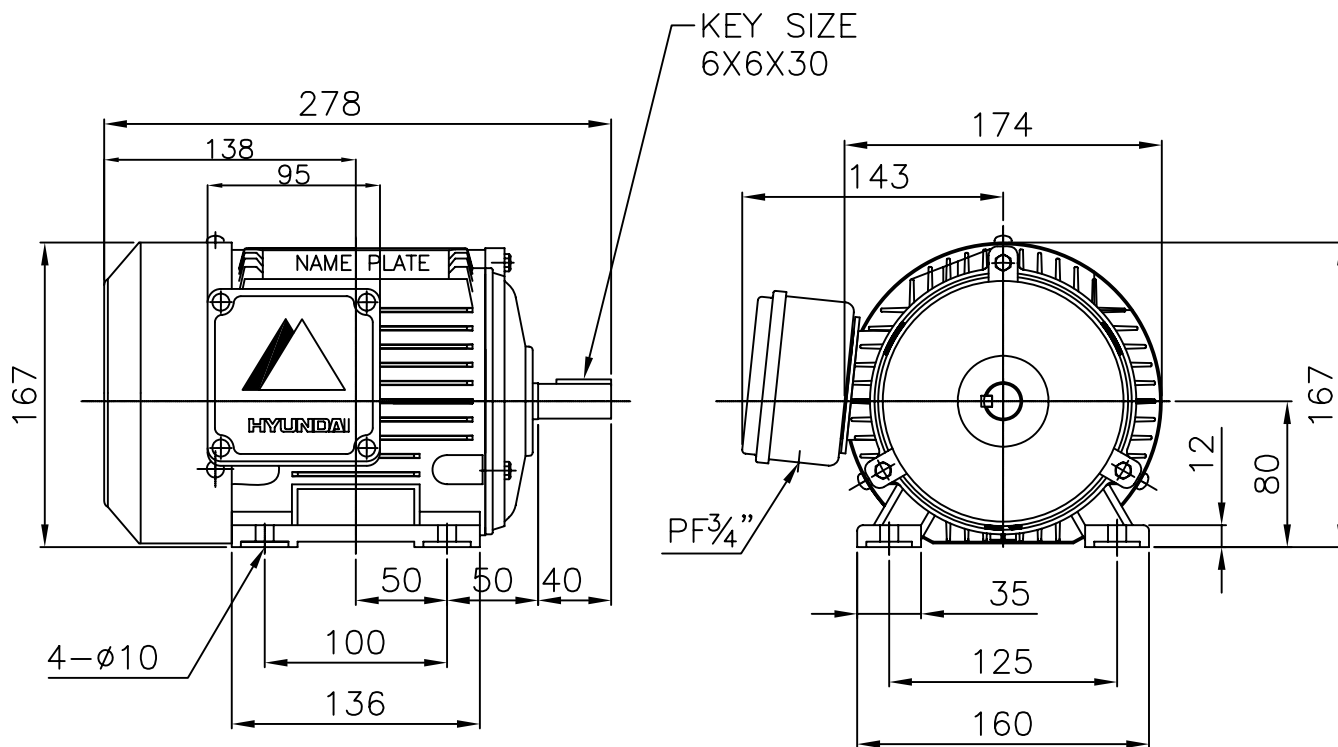
E

D

C

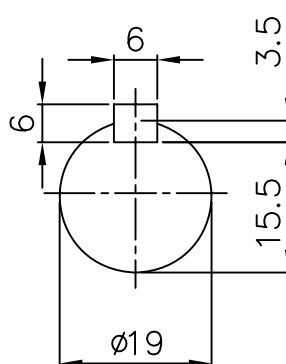
B

A

**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

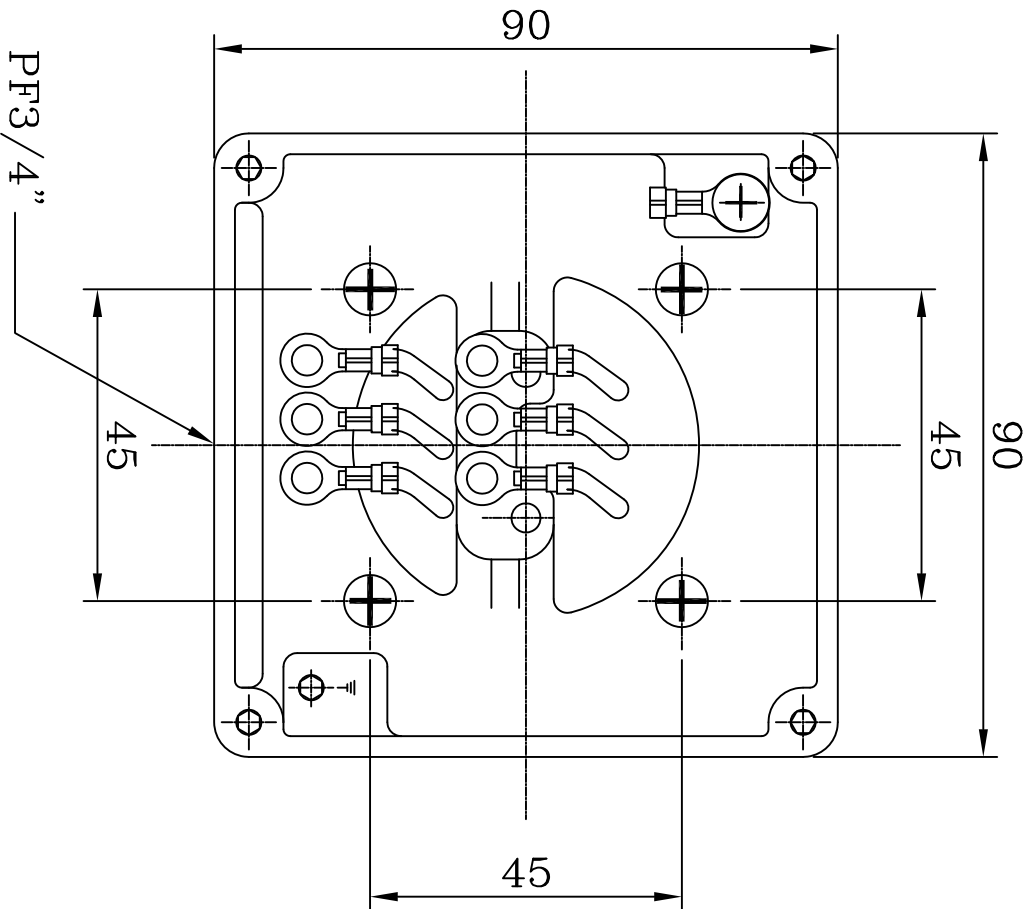
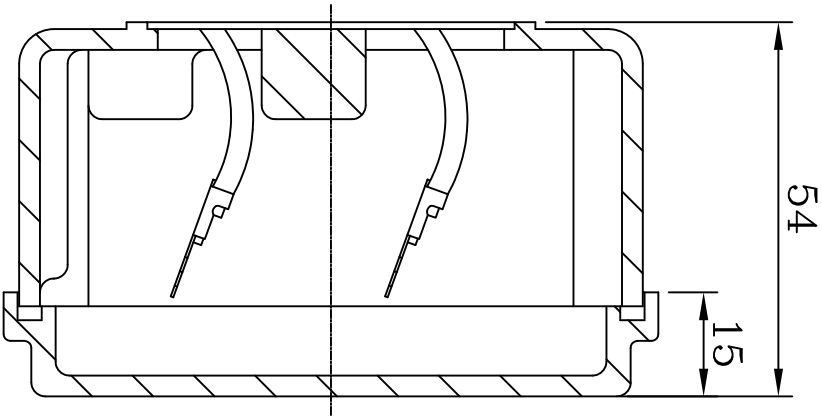
APPD BY	B.M.YOO	UNIT	mm	SUBJECT	IEC 80M	CAD PROJ \ FILE
CHKD BY	S.W.SEO	SCALE	1/5	TITLE	OUTLINE	IP54,55,56
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle			
DSND BY	C.S.KO	DATE	2008.01.12			
HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	B5000TA02	Sheet No. of
				DWG NO	227B5000TA02	Revision No. 0

1

2

3

4



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