HYUNDAI HEAVY INDUSTRIES CO.,LTD.

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.	[0]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION

Frame Size		80M
Type		HS
Enclosure(Protection)		Totally Enclosed (IP55)
Method of Cooling		IC411(FC)
Rated Frequency		60 Hz
Number of Phases		3
Insulation Class		■ F ☐ B ☐ H
Temp. Rise at full load (by resistance method)		
	at 1.0 S.F	80 deg. C
Motor Location		■ Indoor ☐ Outdoor
Altitude		Less than 1000 meter
Relative Humidity		Less than 80 %
Ambient Temp.		40 deg. C (Max.)
Duty Type		Continuos (S1)
Service Factor		1.15
Mounting		☐ B3 ■ B5 ☐ V1 ☐ B3/B5
Bearing	Type	Anti-Friction
	DE/N-DE	6204ZZ / 6203ZZ
	Lubricant	Grease(SML4)
External Thrust		Not applicable
Coupling Method		■ Direct ☐ V-Belt
Shaft Extension		■ Single ☐ Double
Terminal Box	Main	☐ Steel ■ Cast Iron
	Aux.	☐ Yes ■ No
	Location	Refer to Outline Drawing
Application		
Area classification		Non-Hazardous
Type of Ex-Protection		Not applicable
Applicable Standard		KS,IEC,NEMA MG1 Part30(Vpeak)

PERFORMANCE DATA

Rated Output		0.75 kW	1 HP	
Number of Poles		2		
Rotor Type		Squirrel Cage		
Starting Method*		■ D.O.L	☐ Y-△	
Rated Voltage		440 V	380 V	220 V
Current	Full Load	1.6 A	1.9 A	3.2 A
	Locked-rotor**	800 %	800 %	800 %
Efficiency				
	50% Load	65.0 %		
	75% Load	72.0 %		
	100% Load	75.5 %		
Power Factor(p.u)				
	50% Load	0.610		
	75% Load	0.750		
	100% Load	0.815		
Speed at Full Load		3500 r.p.m		
Torque				
	Full Load	0.2 kg·m		
	Locked-rotor**	350 %		
	Breakdown**	390 %		
Moment of Inertia (J)				
	Load(Max.)	0.150 kg·m²		
	Motor	0.00075 kg·m²		
Sound Pressure Level (No-load & mean value at 1m from motor)				
		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)		

ACCESSORIES

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

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PERFORMANCE CURVE

CURVE NO.

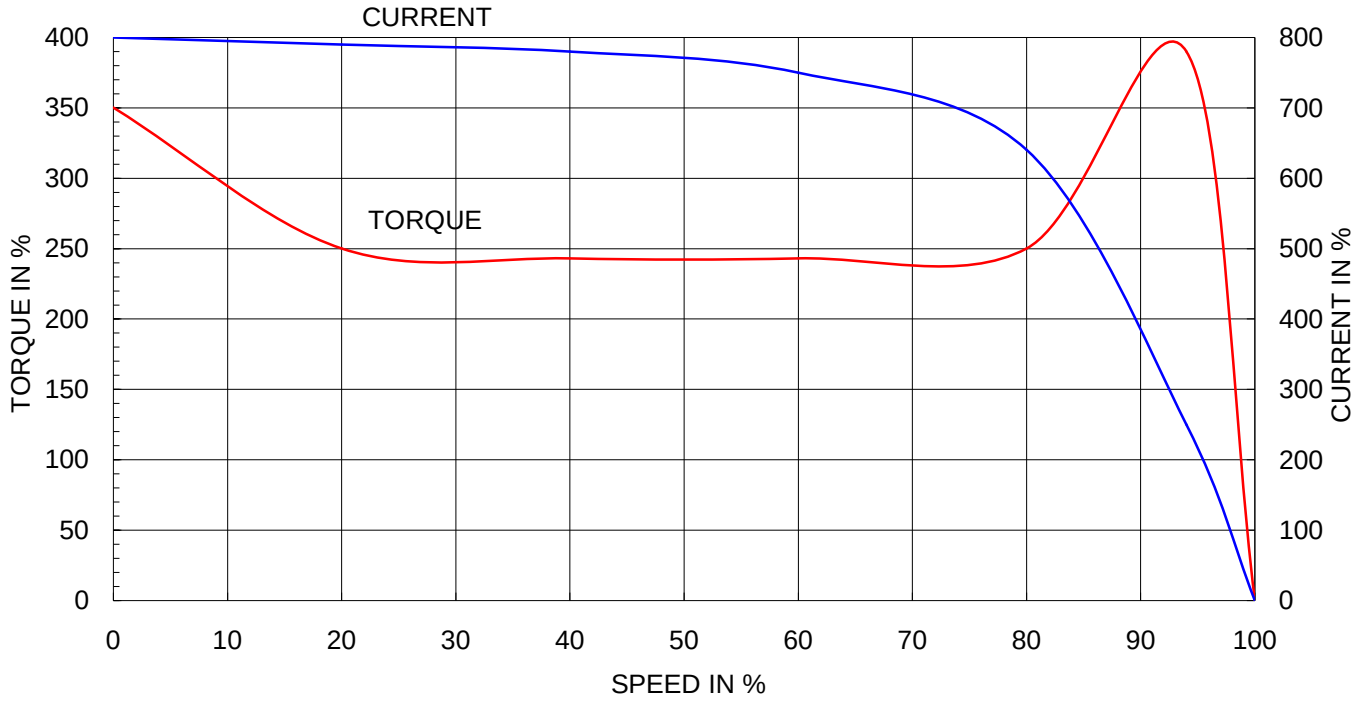
P-HS-0.75/2

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	$Kg.m^2$	

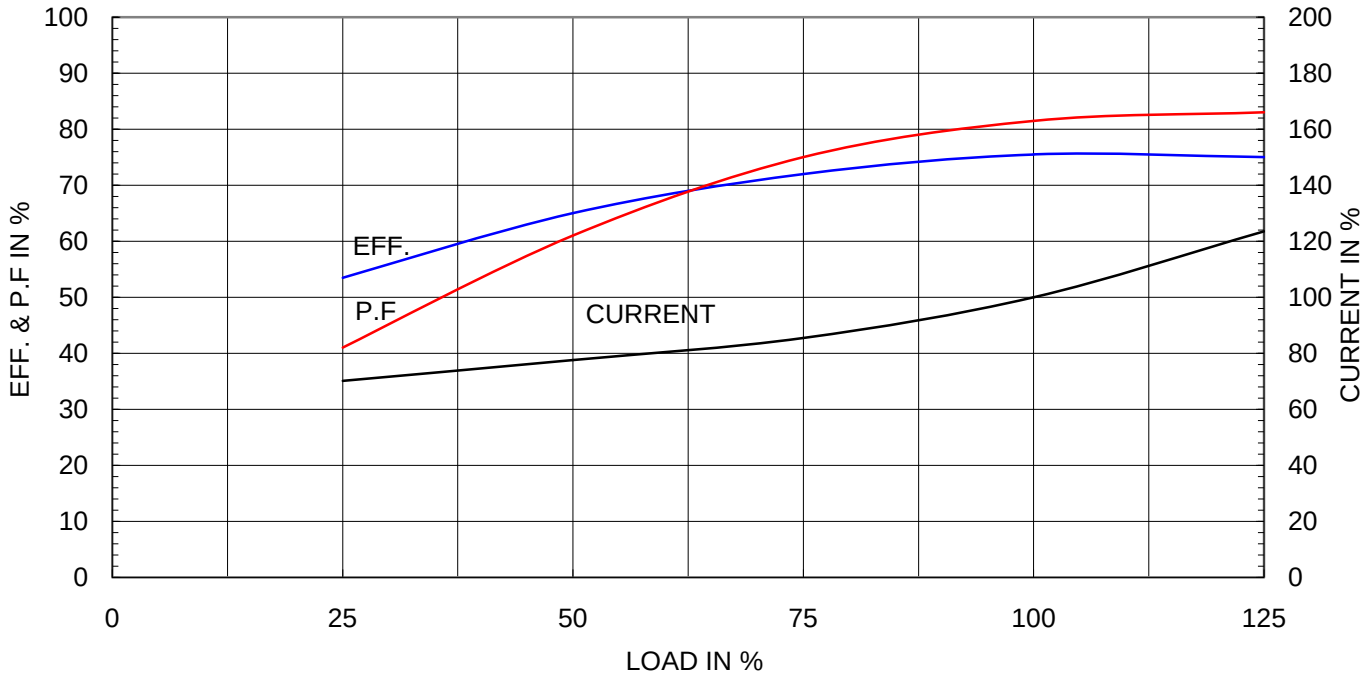
0.75 kW	2 P	60 Hz
Speed at Full Load :		3500 RPM

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



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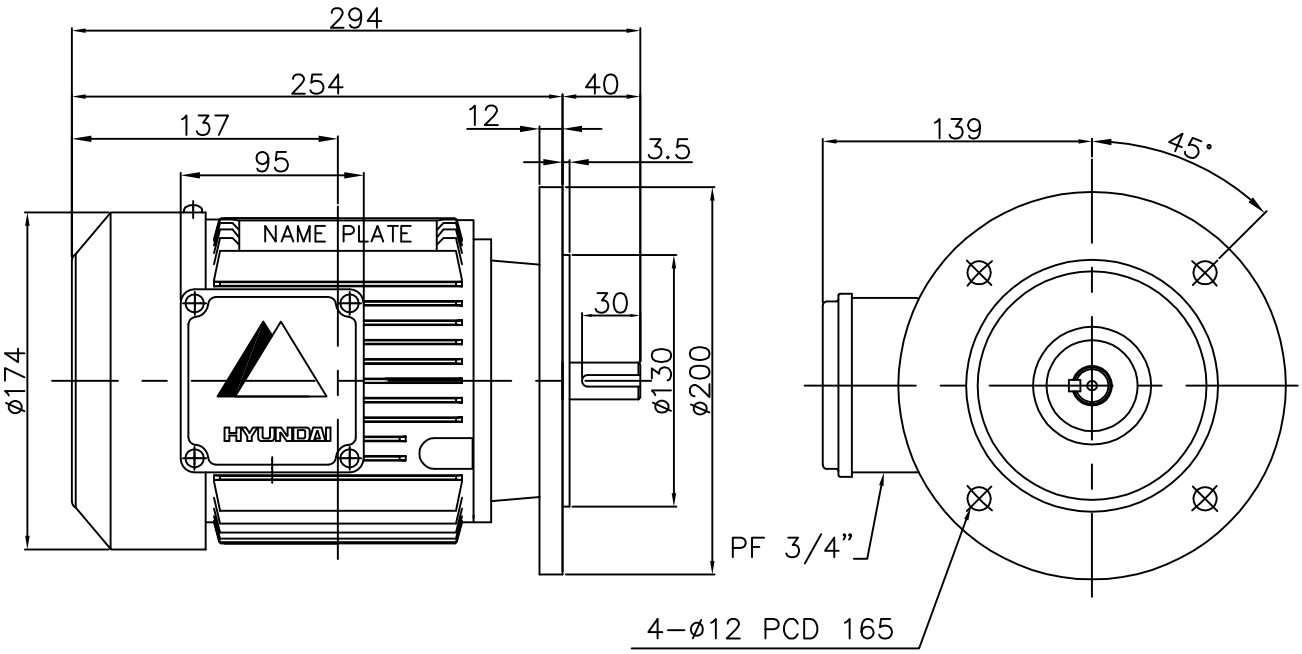
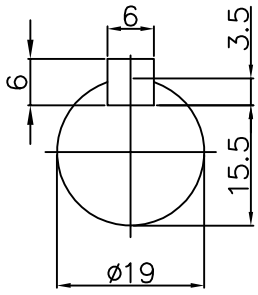
TEFC

THREE PHASE INDUCTION MOTOR

TYPE	HL
	AL FRAME





NOTE

1.TOLERANCE :

FLANGE HOLES	ø12	$^{+0.43}_{-0.}$
RABBET DIAMETER	ø130	$^{+0.014}_{-0.011}$
SHAFT DIAMERTER	ø19	$^{+0.009}_{-0.004}$
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
CHKD BY	S.W.SEO	SCALE	1/0.34
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle
DSND BY	C.S.KO	DATE	2008.1.12

SUBJECT	FF165, IEC80	CAD PROJ \ FILE IP 54,55,56
TITLE	OUTLINE	

HYUNDAI HEAVY INDUSTRIES CO., LTD.
Electro-Electric System Division

REF. NO	081\081ASIP541	Sheet No. of
DWG NO	227B5023TA02	Revision No. 0

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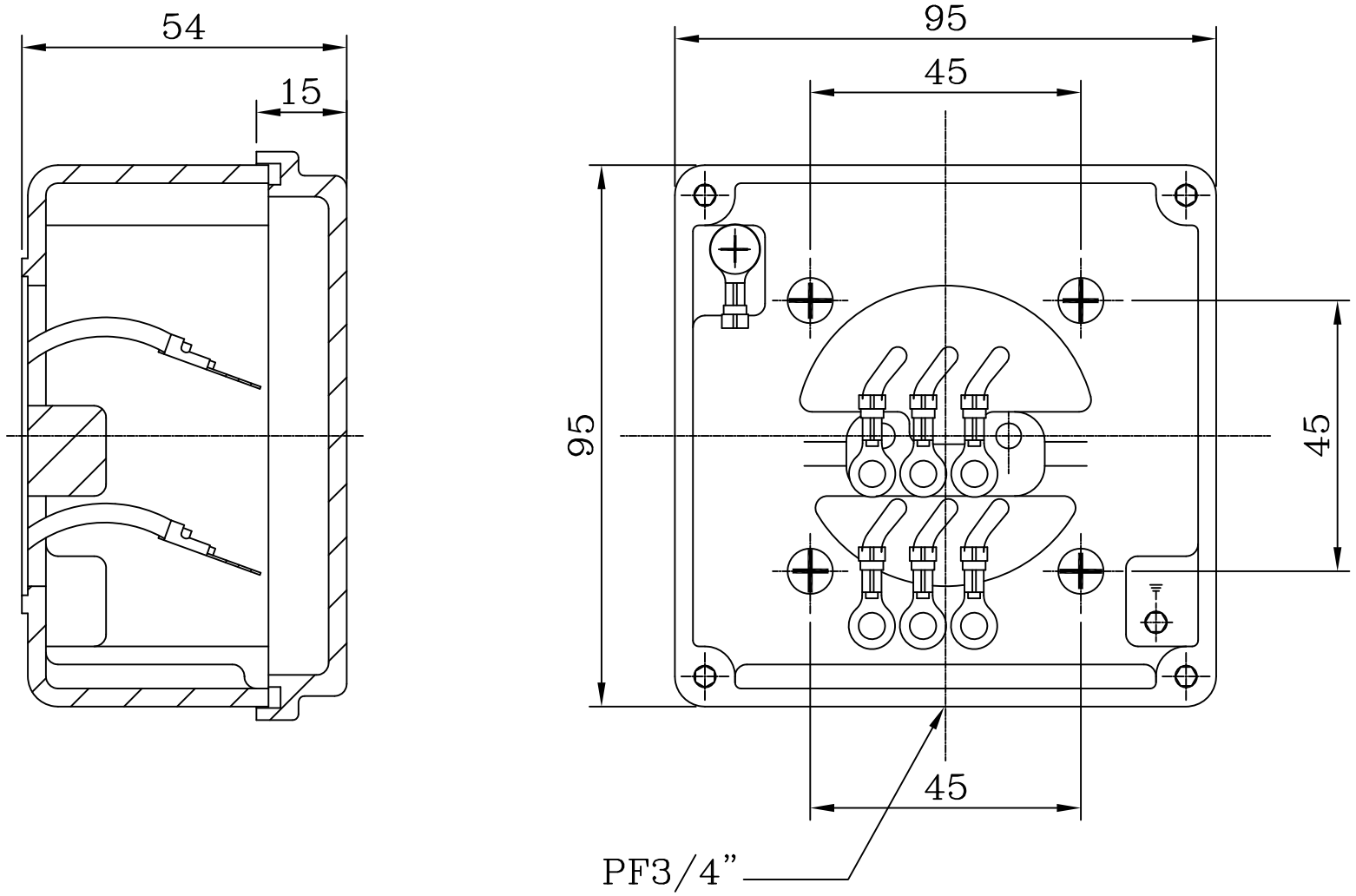

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.

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

SUBJECT	CB ASM (FR71--90)	CAD PROJ ₱ \ FILE ₱	IP55
TITLE	6 LEADS CONDUIT BOX ASSEMBLY		
REF. NO	227B1537AA1	Sheet No.	of
DWG NO	227B1537AA1	Revision No.	0

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY