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 ■ Aluminium
	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		4		
Rotor Type		Squirrel Cage		
Starting Method*		☐ D.O.L	☐ Y- △	
Rated Voltage		440 V	380 V	220 V
Current	Full Load	1.7 A	2.0 A	3.4 A
	Locked-rotor**	740 %	740 %	740 %
Efficiency				
	50% Load	76.5 %		
	75% Load	81.0 %		
	100% Load	82.5 %		
Power Factor(p.u)				
	50% Load	0.485		
	75% Load	0.610		
	100% Load	0.704		
Speed at Full Load		1735 r.p.m		
Torque				
	Full Load	0.4 kg·m		
	Locked-rotor**	360 %		
	Breakdown**	390 %		
Moment of Inertia (J)				
	Load(Max.)	0.625 kg·m²		
	Motor	0.0016 kg·m²		
Sound Pressure Level (No-load & mean value at 1m from motor)		0 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	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

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

PERFORMANCE CURVE

CURVE NO.

P-HS-0.75/4

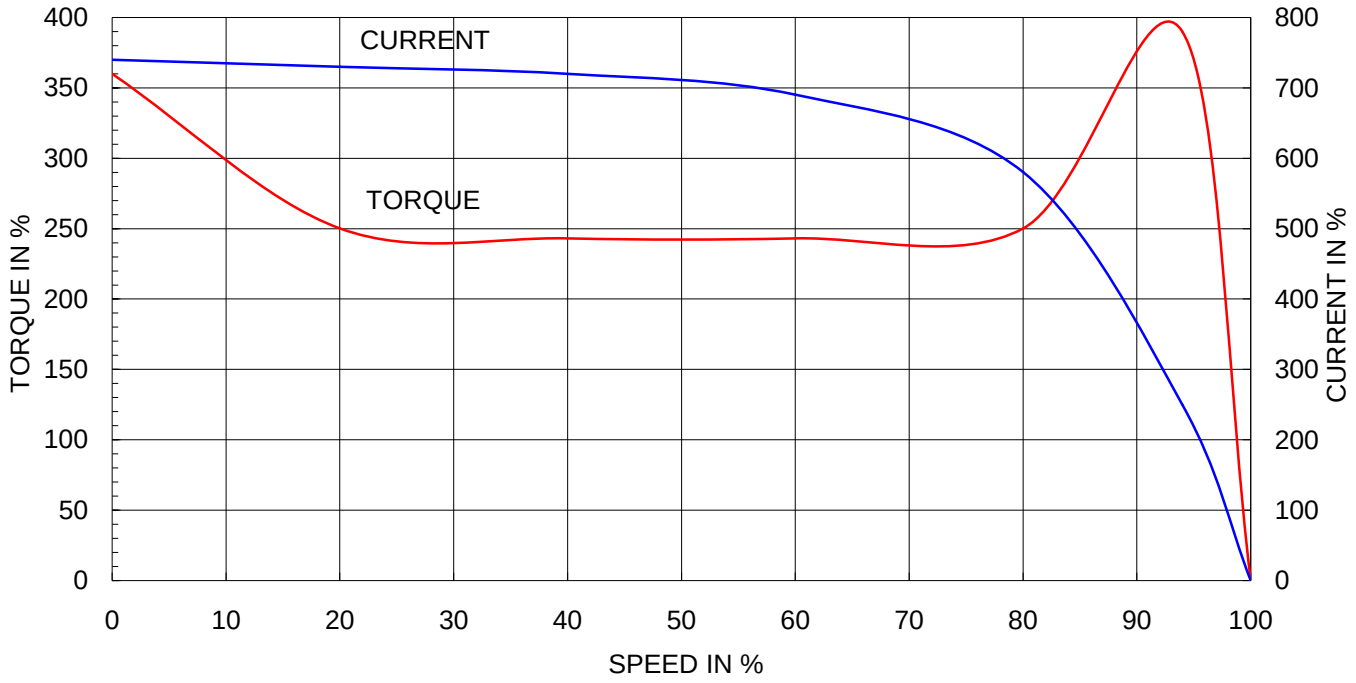
Type :	HS	
Full Load Torque :	0.4	Kg.m
Motor moment of Inertia (J) :	0.002	$Kg.m^2$
Load moment of Inertia (J) :	0.625	$Kg.m^2$

0.75 kW 4 P 60 Hz

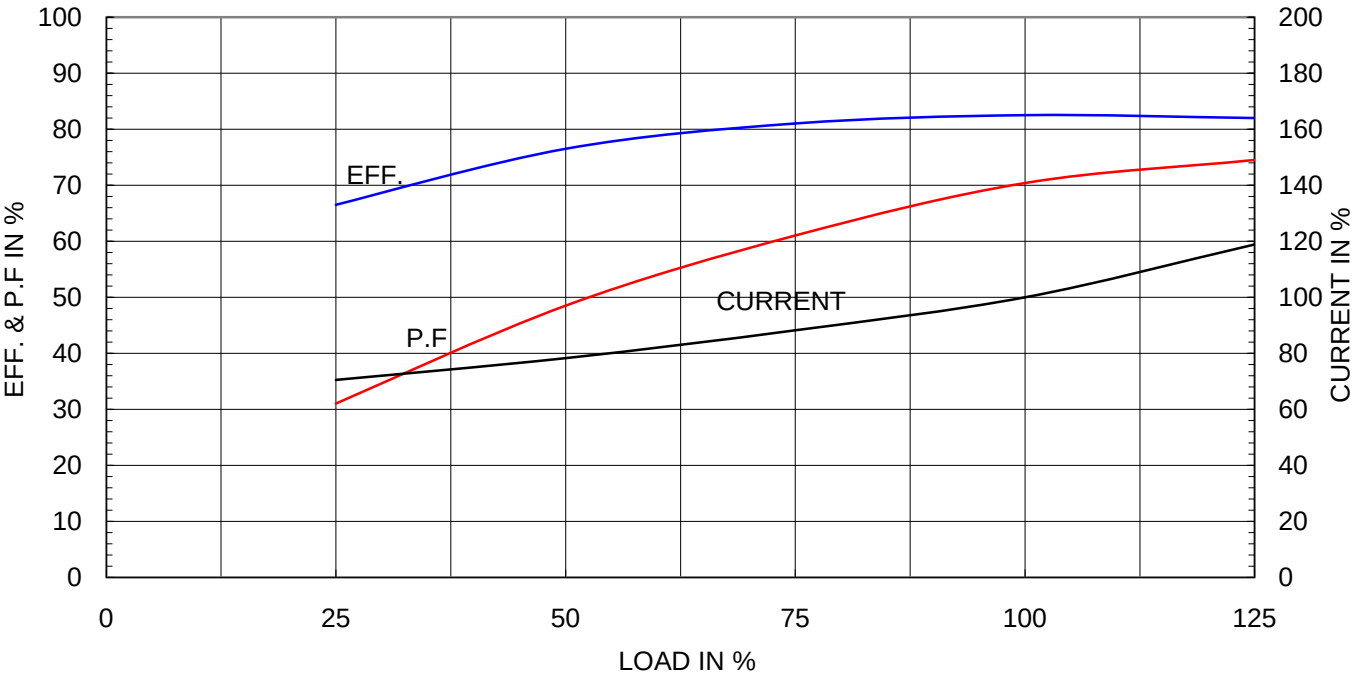
Speed at Full Load : 1735 RPM

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



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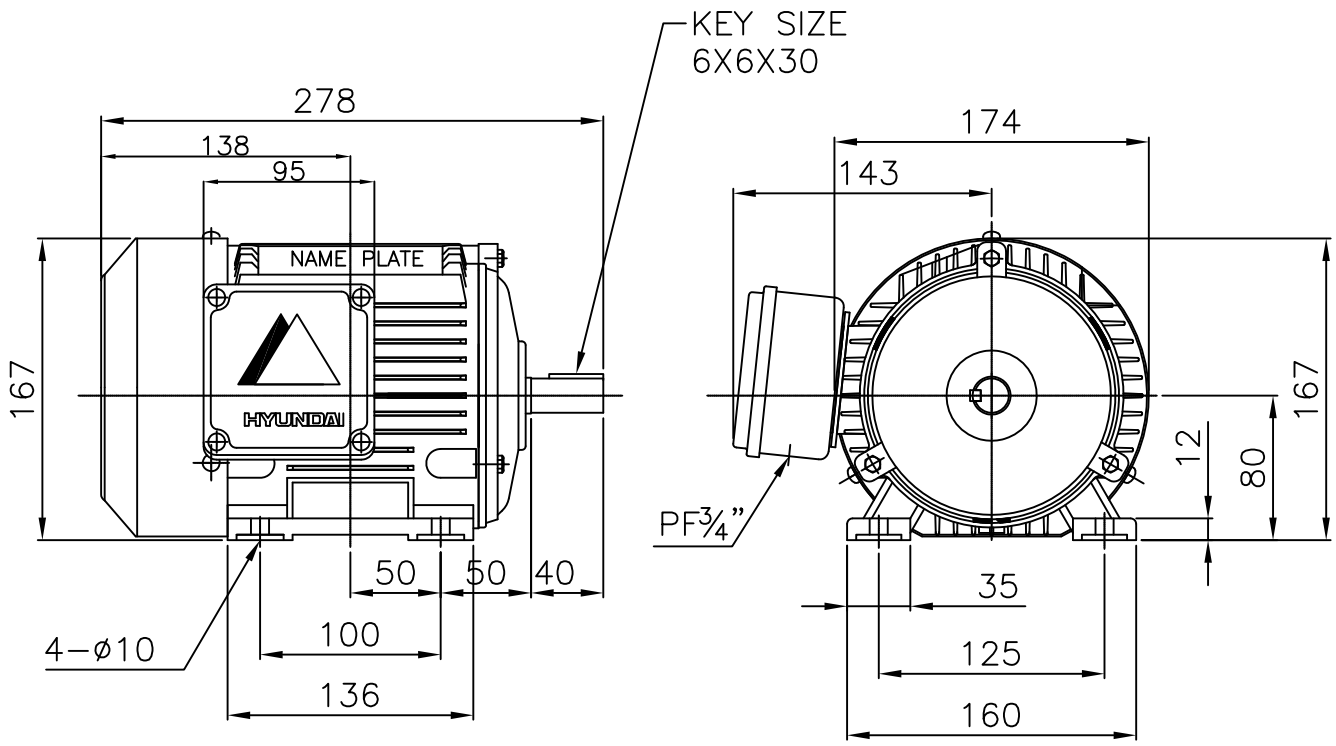
TEFC

THREE PHASE INDUCTION MOTOR

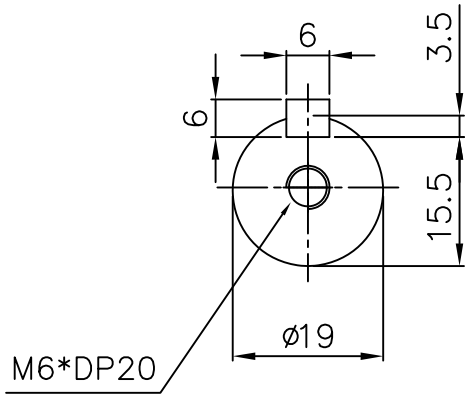
TYPE	HL
	AL FRAME



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
CHKD BY	S.W.SEO	SCALE	1/5
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle
DSND BY	C.S.KO	DATE	2008.01.12

SUBJECT	IEC 80M	CAD PROJ \ FILE: IP54,55,56
TITLE	OUTLINE	

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

REF. NO	B5000TA02	Sheet No. of
DWG NO	227B5000TA02	Revision No. 0

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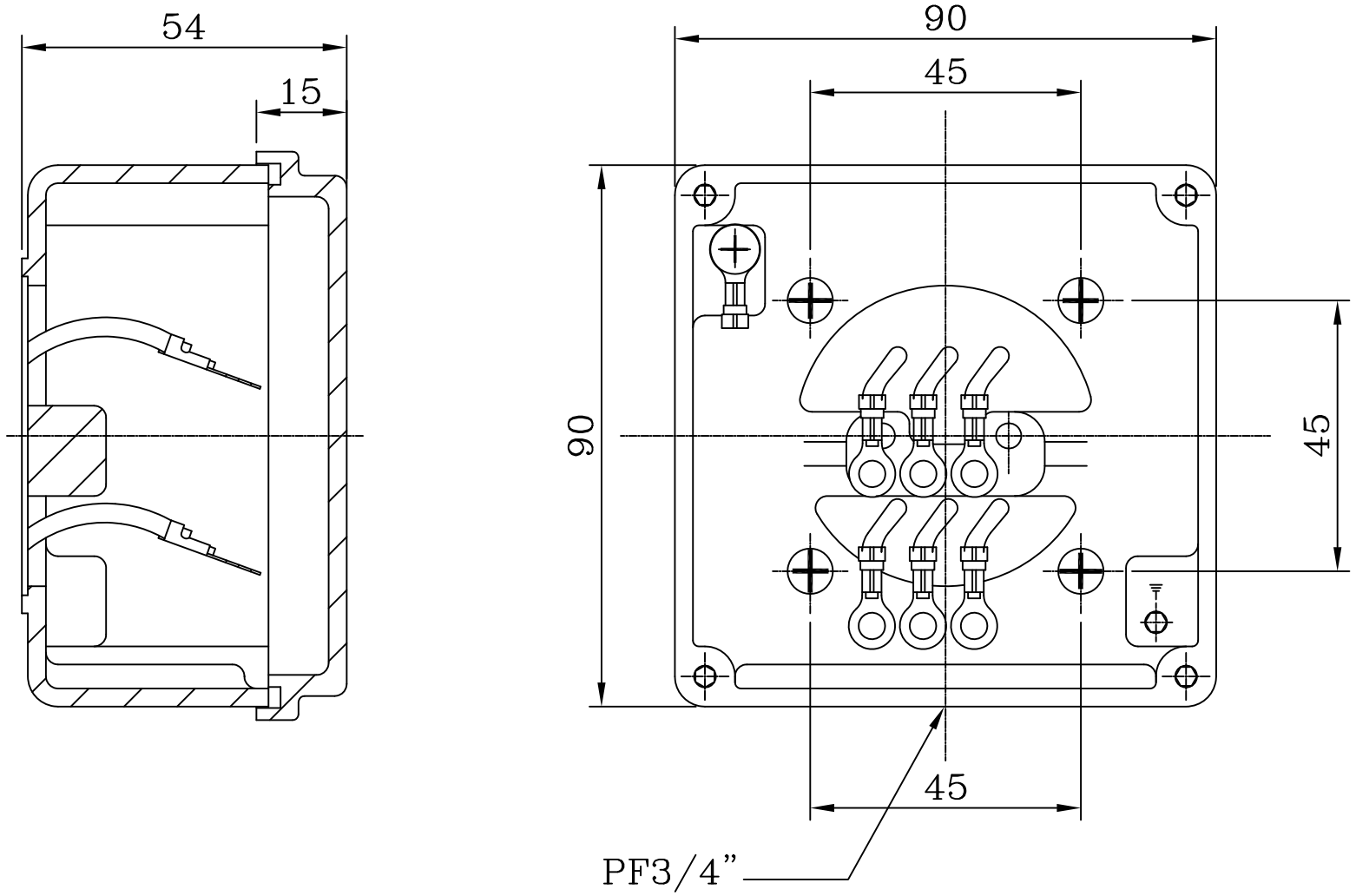

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.

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