



AC INDUCTION MOTOR DATA SHEET

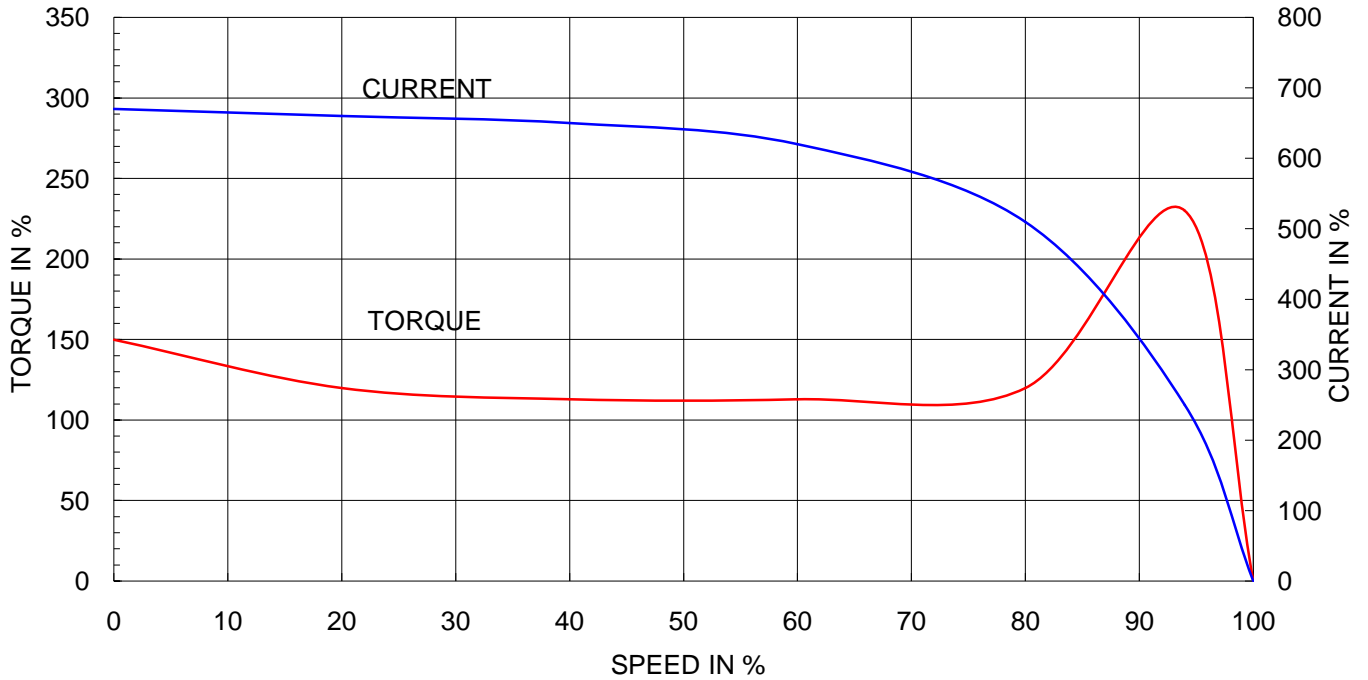
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	250M		Rated Output	90 kW 120 HP			
Type	HS-90/4		Number of Poles	4			
Enclosure(Protection)	Explosion Proof (IP55)		Rotor Type	Squirrel Cage			
Method of 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	144.5 A 167.3 A 288.9 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Locked-rotor**	670 % 670 % 670 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 94.2 %				
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load 94.6 %				
Altitude Less than 1000 meter			100% Load 94.5 %				
Relative Humidity Less than 80 %			Power Factor(p.u)				
Ambient Temp. 40 deg. C (Max.)			50% Load 0.830				
Duty Type Continuous (S1)			75% Load 0.860				
Service Factor 1.00			100% Load 0.865				
Mounting <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5			Speed at Full Load 1785 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6316C3 / 6313C3		Full Load 49.1 kg·m			
	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor** 150 %			
External Thrust Not applicable			Breakdown** 230 %		Moment of Inertia (J)		
Coupling Method <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt			Load(Max.) 63.525 kg·m²				
Shaft Extension <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double			Motor 1.940 kg·m²				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Sound Pressure Level (No-load & mean value at 1m from motor)			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		82 dB(A)			
Location Refer to Outline Drawing			Vibration 2.2 mm/sec (r.m.s)				
Application			Permissible number of consecutive starts				
Area classification Hazardous			Cold 3 times				
Type of Ex-Protection Ex d II T4			Hot 2 times				
Applicable Standard KS,IEC			Paint Munsell No. 4.0PB5.4/5.5(VL-451)				
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	GJ5MAP02	830 kg		
			B5	0	0 kg		
			V1		kg		
			B3/B5	0	0 kg		
			Main T-Box Ass'y			3M-036962	
SPARE PARTS			REMARK				
			High Efficiency				
			Date	DSND	CHKD	CHKD	APPD
			2010-05-28	R.G. KIM	O.J. KIM	J.H. KIM	K.J. KANG

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.

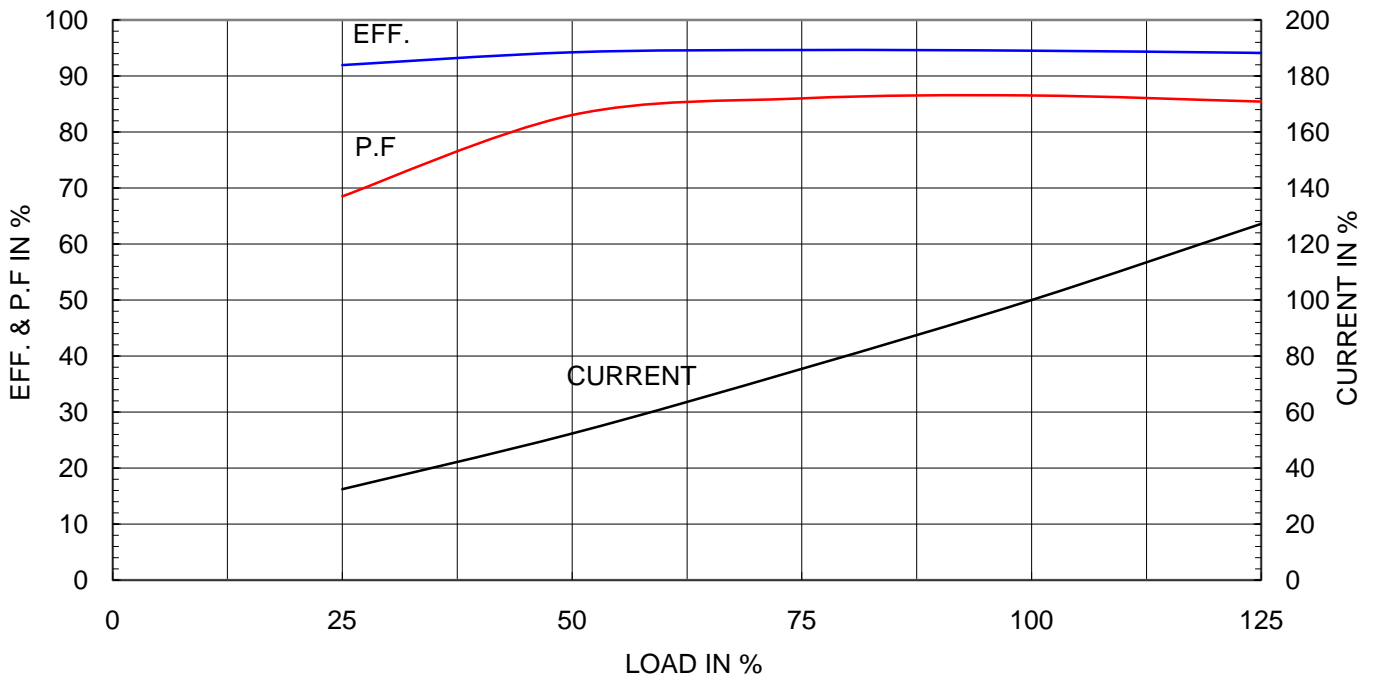
Type	: GHB250M
Full Load Torque	: 49.1 Kg.m
Motor moment of Inertia (J)	: 1.940 Kg.m ²
Load moment of Inertia (J)	: 63.525 Kg.m ²

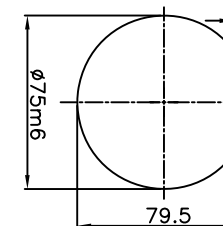
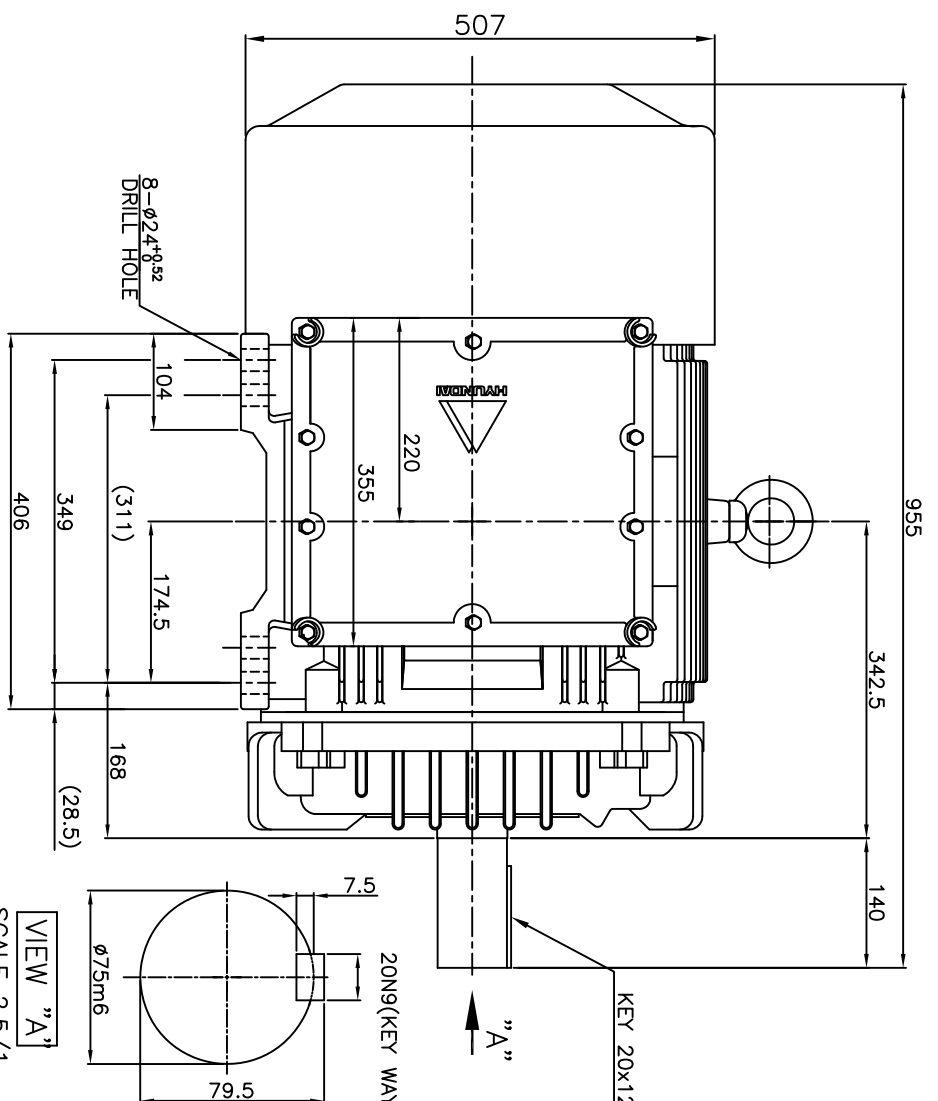
90 kW	4 P	60 Hz	
Speed at Full Load : 1785 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	144.5A	167.3A	288.9A

SPEED VS TORQUE & CURRENT CURVE

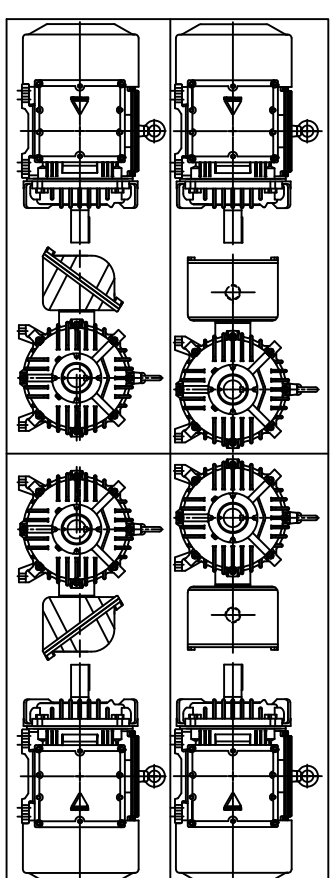


OUTPUT VS EFF., P.F & CURRENT CURVE

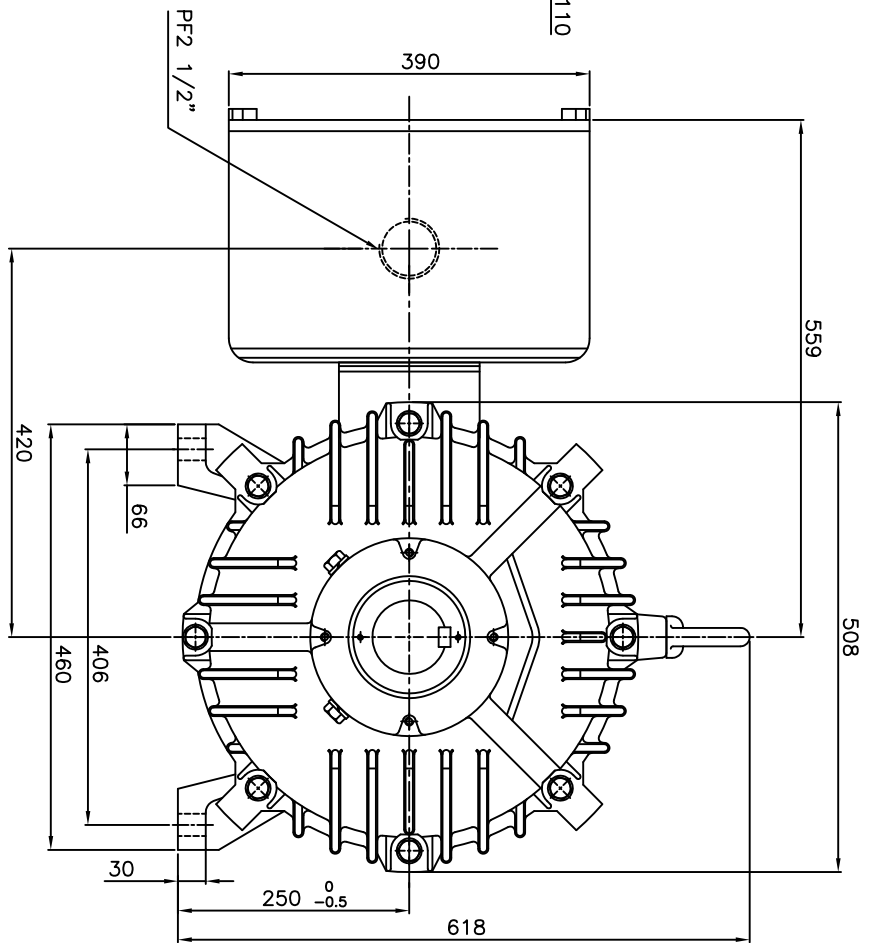




*TERMINAL BOX LOCATION



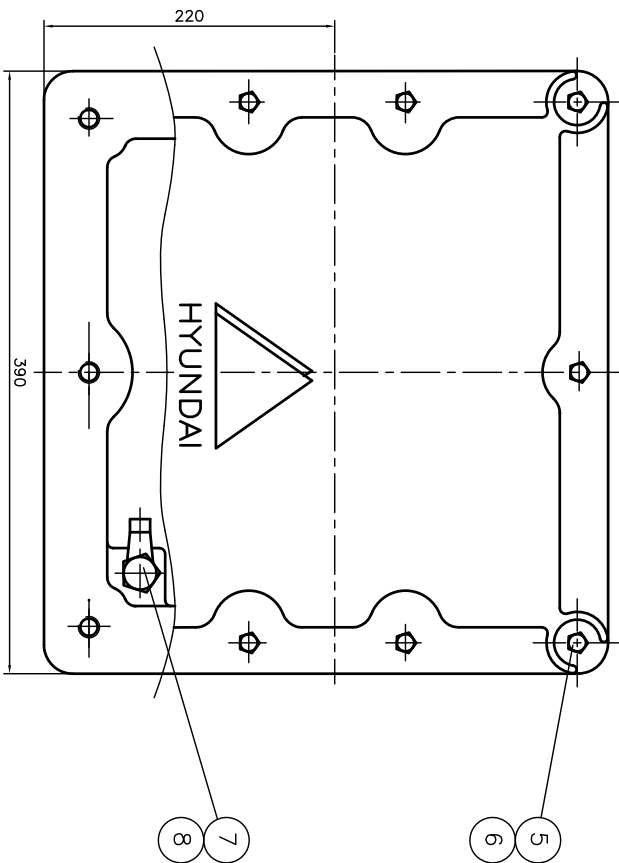
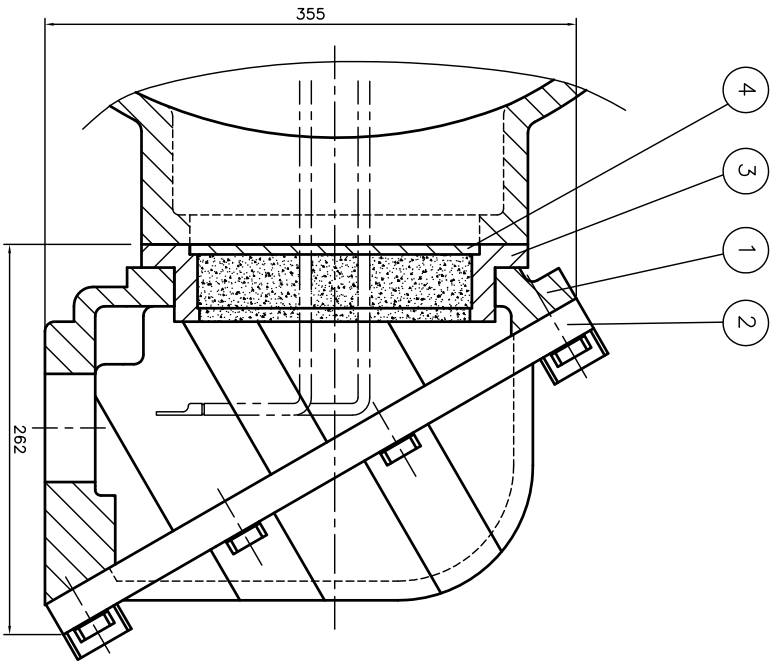
VIEW "A"
 SCALE 2.5/1



(EXPLOSION CONSTRUCTION & IGNITION GRP)

REV	DATE	CONTENTS	REV	BY	CHKD	BY	CHKD	BY	APPD	BY	250-
1			3								4-18
2			4								18-63
3			5								63-250
4			6								250-
5			7								250-

QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD	BY	???	UNIT	MM	1/6	SUBJECT	KS FR-250M, PTYPE, EP
CHKD	BY	???	SCALE	1/6	PROJEC'N	3rd Angle	DATE
CHKD	BY	???	DATE	2005.06.07			
DSND	BY	???					
TITLE				OUTLINE DIMENSION			
THREE-PHASE INDUCTION MOTOR				GJ5MAP-02			
REF. NO.	DWG NO.	GJ5MAP-02	Sheet No.	Revision No.			



QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
1	HEX. BOLT	BRONZE	M10				8
1	EARTH TERMINAL LUG	STD					7
10	SPRING WASHER	SUP-3					6
10	HEX. BOLT	S45C	M12				5
1	GUIDE PLATE	E.C.P					4
1	ADAPTER	FC25					3
1	TERMINAL BOX COVER	FC25					2
1	TERMINAL BOX BODY	FC25					1

APRD BY	UNIT	MM	SUBJECT	H/LAB FR-250,280 (2234)	SCALE	NONE	TITLE	TERMINAL BOX ASS'Y
CHK BY	SCALE	NONE	PROJECN	3-24(3rd Angle)	DATE	98.10.30	REF. NO.	
DSND BY	KIM JONG SEON	DATE	98.10.30	DWG NO.	3M-036962	Sheet No.	of	Revision No.

REV	DATE	CONTENTS	REQD BY	CHKD BY	APRD BY
1					
2					
3					
4					

