

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	225S		Rated Output	55 kW 75 HP			
Type	HS-55/2		Number of Poles	2			
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	84.8 A 98.2 A 169.6 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Locked-rotor**	630 % 630 % 630 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 92.7 %				
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load 93.1 %				
Altitude Less than 1000 meter			100% Load 93.0 %				
Relative Humidity Less than 80 %			Power Factor(p.u)				
Ambient Temp. 40 deg. C (Max.)			50% Load 0.898				
Duty Type Continuous (S1)			75% Load 0.915				
Service Factor 1.00			100% Load 0.915				
Mounting <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5			Speed at Full Load 3570 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6213C3 / 6213C3		Full Load	15.0 kg·m		
Lubricant		Grease(Gadus S2 V 100 2)		Locked-rotor**	150 %		
External Thrust Not applicable			Breakdown**		250 %		
Coupling Method <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt			Moment of Inertia (J)				
Shaft Extension <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double			Load(Max.) 5.750 kg·m²				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor 0.628 kg·m²			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sound Pressure Level (No-load & mean value at 1m from motor)			
Location Refer to Outline Drawing			82 dB(A)				
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification Hazardous			Permissible number of consecutive starts				
Type of Ex-Protection Ex d II T4			Cold 3 times				
Applicable Standard KS,IEC			Hot 2 times				
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	GJ2SAC01	475 kg		
			B5	0	0 kg		
			V1		kg		
			B3/B5	0	0 kg		
			Main T-Box Ass'y	3M-036961			
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.

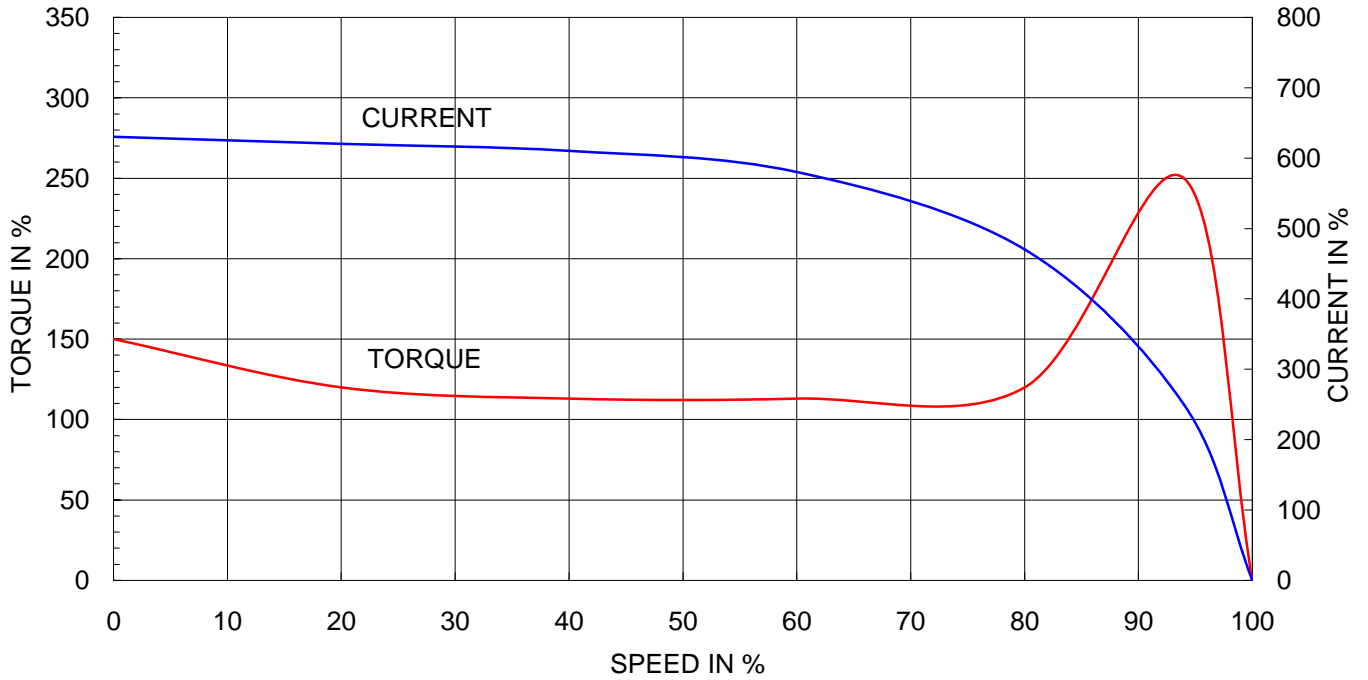
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

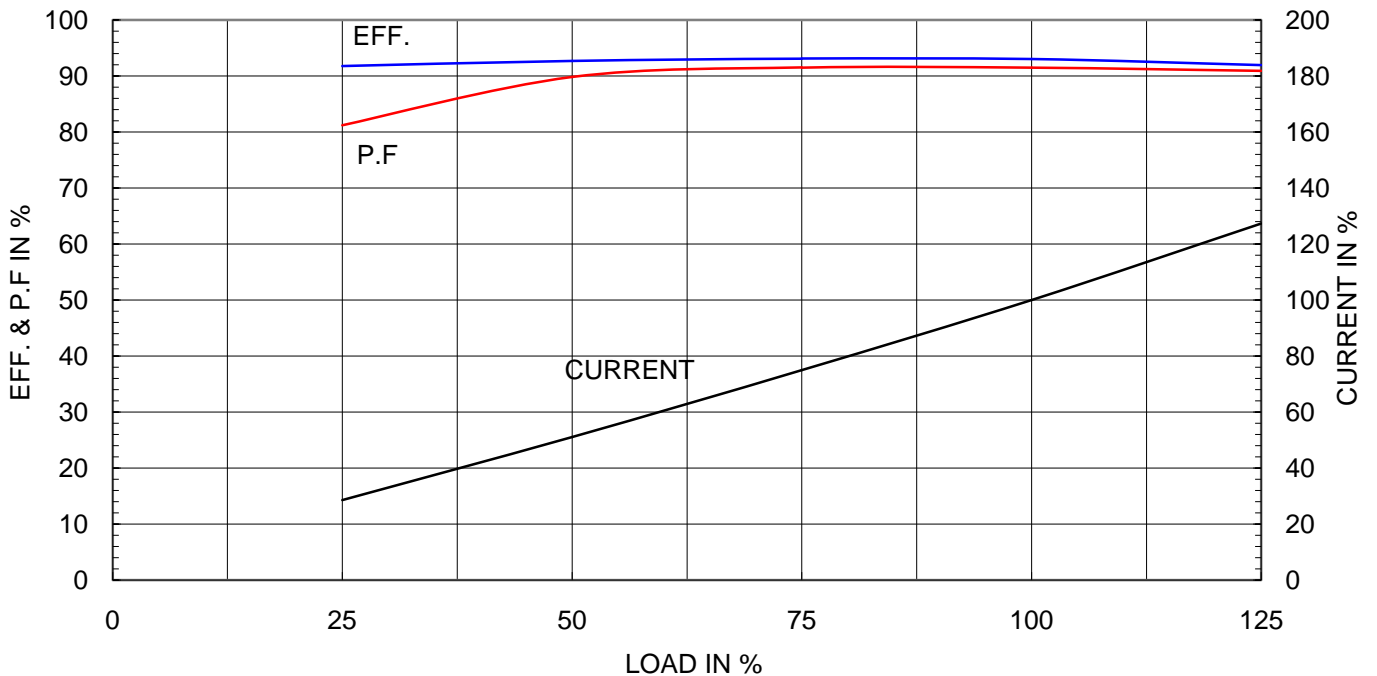
Type	: GHB225M
Full Load Torque	: 15.0 Kg.m
Motor moment of Inertia (J)	: 0.628 Kg.m ²
Load moment of Inertia (J)	: 5.750 Kg.m ²

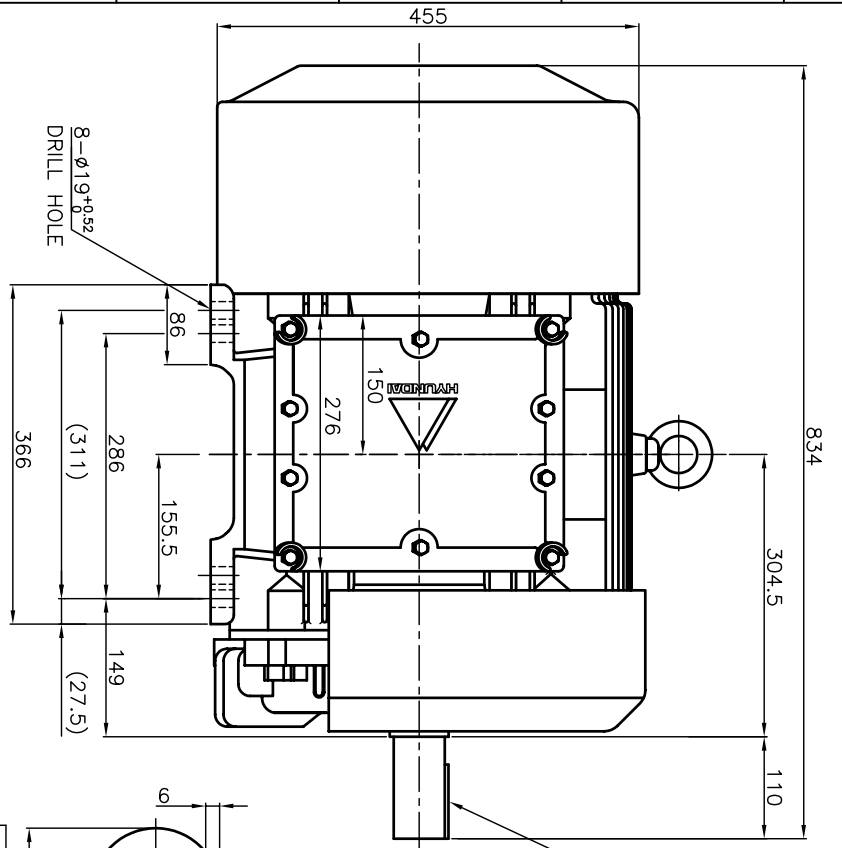
55 kW	2 P	60 Hz	
Speed at Full Load : 3570 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	84.8A	98.2A	169.6A

SPEED VS TORQUE & CURRENT CURVE

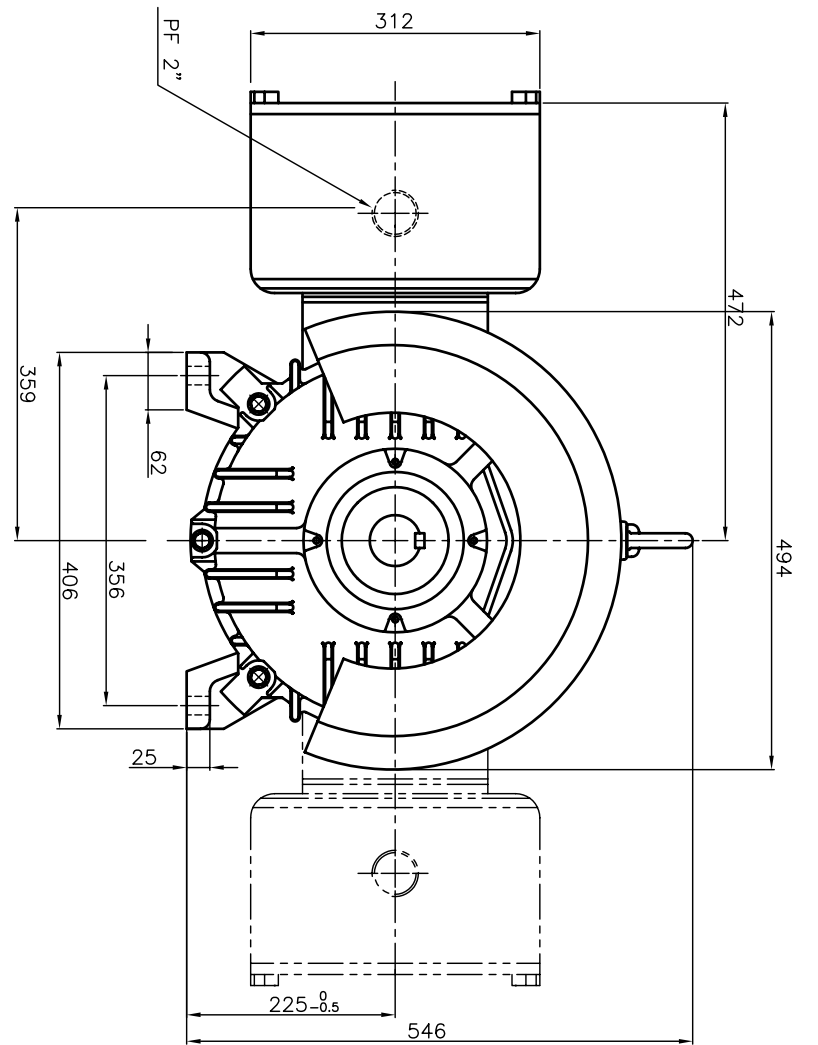
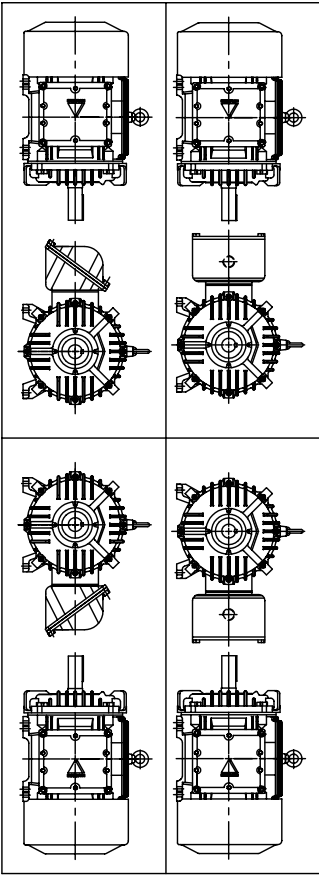


OUTPUT VS EFF., P.F & CURRENT CURVE





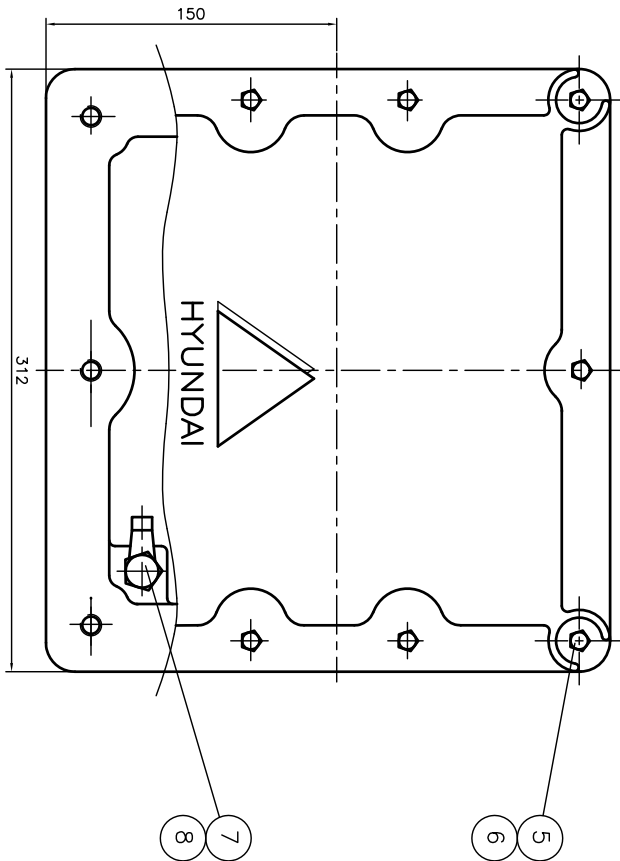
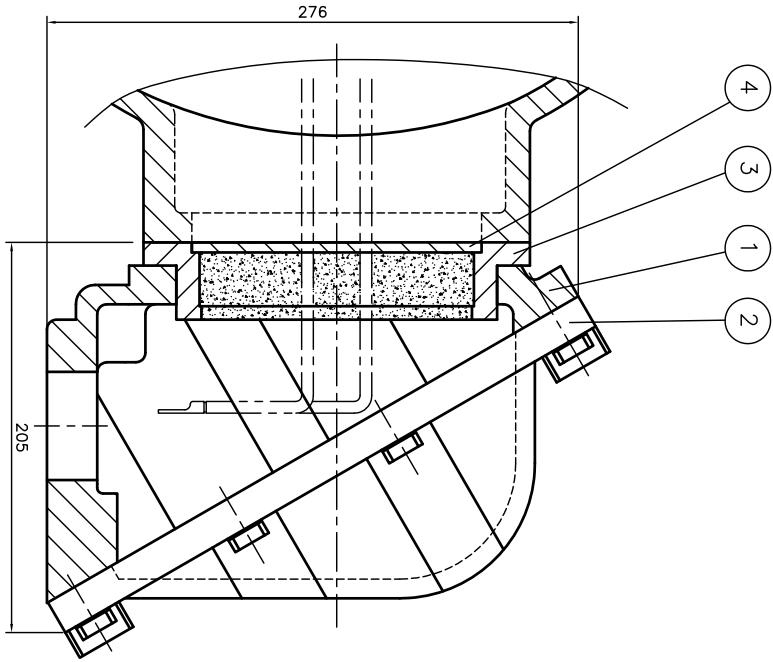
* TERMINAL BOX LOCATION



EXPLOSION CONSTRUCTION & IGNITION GROUP

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						
5						

QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	강경중		UNIT	MM			
CHKD BY	김옥진		SCALE	1/6			
CHKD BY	김종선		PROJECN	3rd Angle			
DSND BY	김형규		DATE	2005.06.07			
TITLE		OUTLINE DIMENSION					
SUBJECT		THREE-PHASE INDUCTION MOTOR					
REF. NO		DWG NO	GJ2SAC-01		Sheet No.	of	
					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	S4SC	M8				5
1	GUIDE PLATE	E.G.P					4
1	ADAPTER	FC25					3
1	TERMINAL BOX COVER	FC25					2
1	TERMINAL BOX BODY	FC25					1

APRD BY	KANG K.J	UNIT	MM	SUBJECT	HU46 FR-225 (22C4)	GO PROJ & FILE #	
Q.P. CHK	KIM O.J	SCALE	NONE	TITLE	TERMINAL BOX ASS'Y	T-300-4	
CHGD BY		PROJECN	3.24(3rd Angle)				
DSND BY	KIM JONG SEON	DATE	98.10.30				
				REF. NO		Sheet No.	
				DWG NO	3M-036961	of	
						Revision No.	

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