

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

GENERAL SPECIFICATION		PERFORMANCE DATA				
Frame Size	280S	Rated Output	90 kW	120 HP		
Type	HS-90/6	Number of Poles	6			
Enclosure(Protection)	Explosion Proof (IP55)	Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)	Starting Method*	<input checked="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	145.9 A	169.0 A	291.9 A
Insulation Class	<input checked="checked" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	650 %	650 %	650 %
Temp. Rise at full load (by resistance method)	Efficiency					
at 1.0 S.F						80 deg. C
Motor Location	<input checked="checked" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load	94.2 %			
Altitude	Less than 1000 meter	100% Load	94.1 %			
Relative Humidity	Less than 80 %	Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)					50% Load
Duty Type	Continuous (S1)	75% Load	0.839			
Service Factor	1.00	100% Load	0.860			
Mounting	<input checked="checked" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	1185 r.p.m			
Bearing	Type	Anti-Friction	Torque			
	DE/N-DE	6318C3 / 6314C3				
	Lubricant	Grease(Gadus S2 V 100 2)				
External Thrust	Not applicable	Full Load	74.0 kg·m			
Coupling Method	<input checked="checked" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Locked-rotor**	170 %			
Shaft Extension	<input checked="checked" type="checkbox"/> Single <input type="checkbox"/> Double	Breakdown**	250 %			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="checked" type="checkbox"/> Cast Iron	Moment of Inertia (J)			
	Aux.	<input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No				
	Location	Refer to Outline Drawing	Load(Max.)	130.225 kg·m ²		
Application		Motor	4.135 kg·m ²			
Area classification	Hazardous	Sound Pressure Level (No-load & mean value at 1m from motor)				
Type of Ex-Protection	Ex d II T4	77 dB(A)				
Applicable Standard	KS,IEC	Vibration				
		2.2 mm/sec (r.m.s)				
		Permissible number of consecutive starts		Cold	3 times	
				Hot	2 times	
		Paint	Munsell No.	4.OPB5.4/5.5(VL-451)		

ACCESSORIES	SUBMITTAL DRAWING			
	Outline Dimension Drawing \ Motor Weight(Approx.)			
	B3	GJ8SAP02	960	kg
	B5	0	0	kg
	V1			kg
	B3/B5	0	0	kg
	Main T-Box Ass'y	3M-036962		

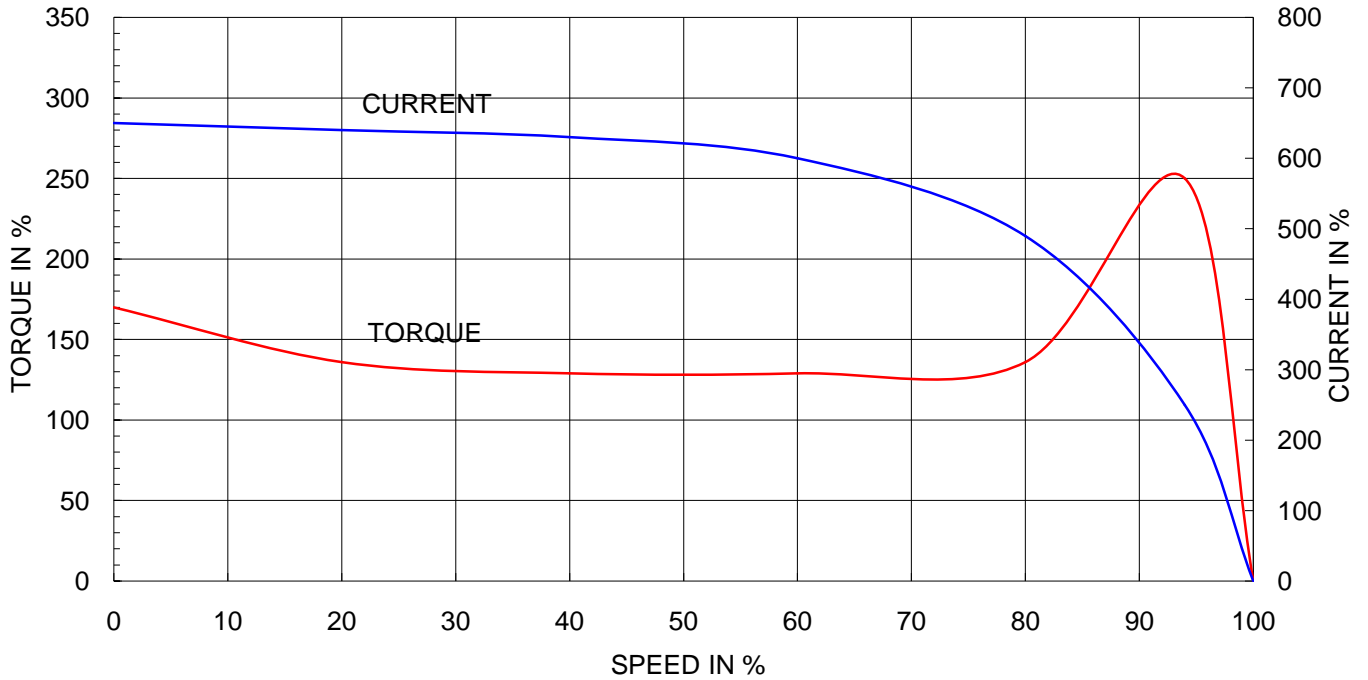
SPARE PARTS	REMARK			
	High Efficiency			
Date	DSND	CHKD	CHKD	APPD
2010-05-28	R.G. KIM	O.J. KIM	J.H. KIM	K.J. KANG

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.

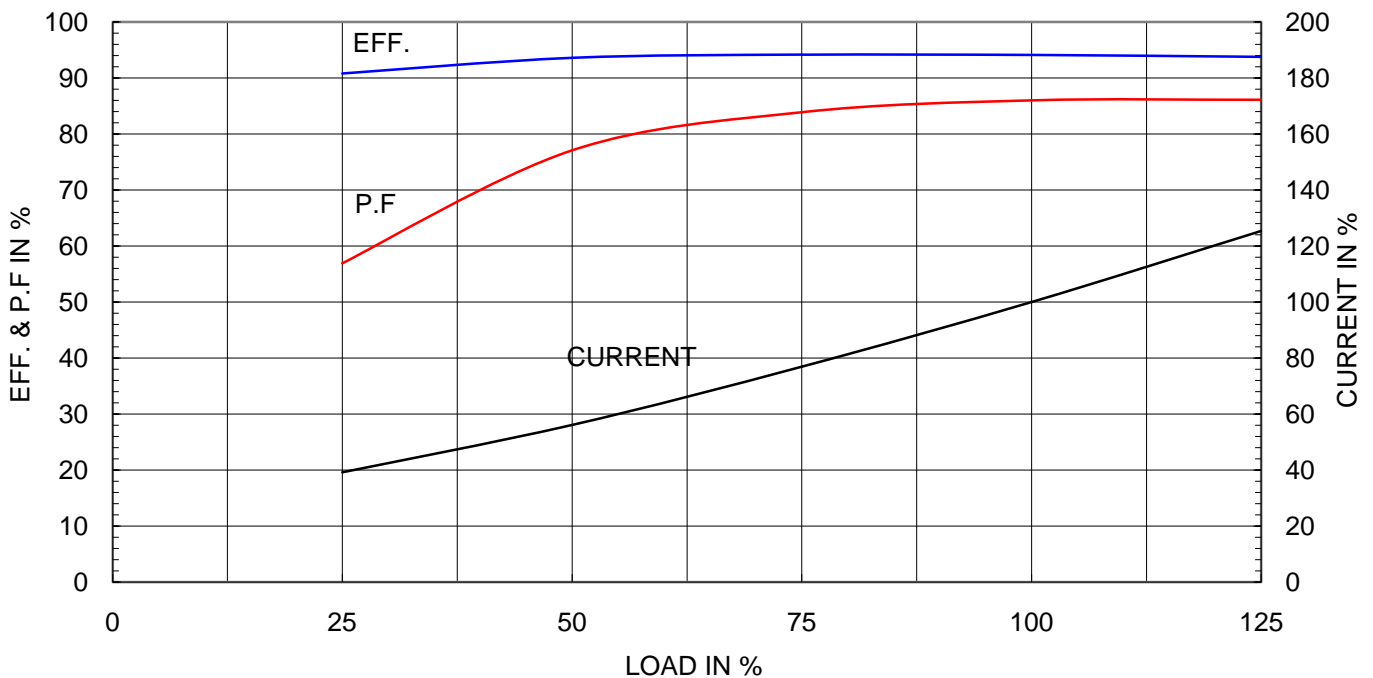
Type	: GHB280M
Full Load Torque	: 74.0 Kg.m
Motor moment of Inertia (J)	: 4.135 Kg.m ²
Load moment of Inertia (J)	: 130.225 Kg.m ²

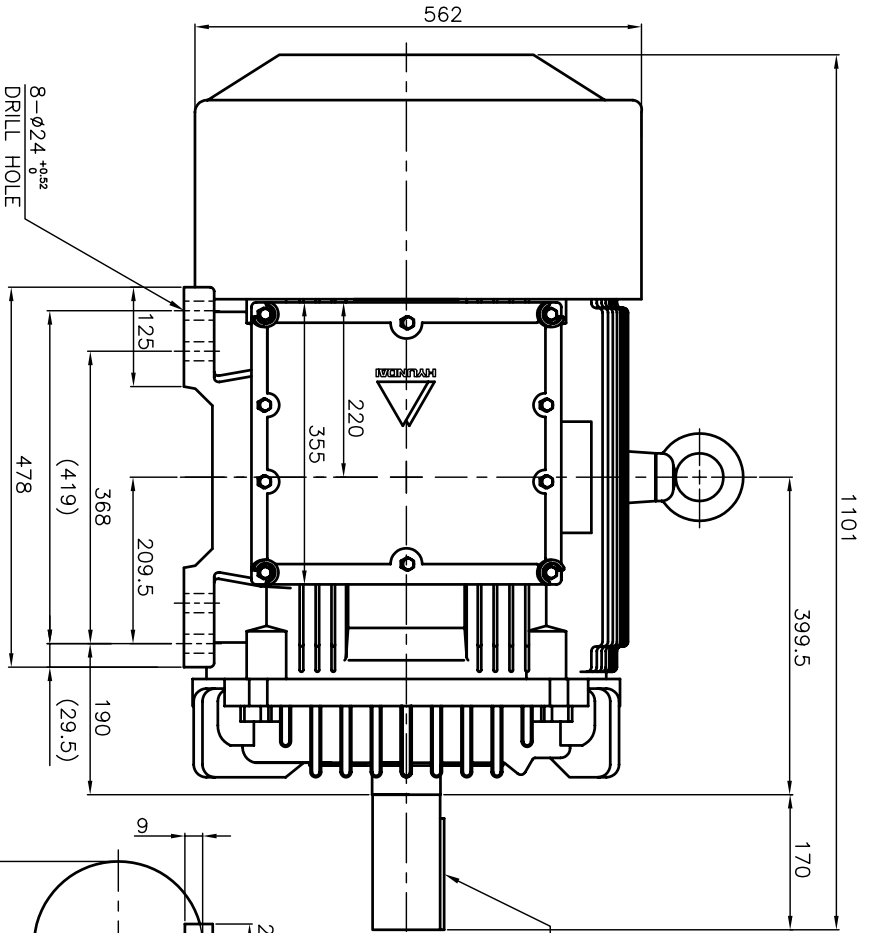
90 kW	6 P	60 Hz	
Speed at Full Load :		1185 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	145.9A	169.0A	291.9A

SPEED VS TORQUE & CURRENT CURVE



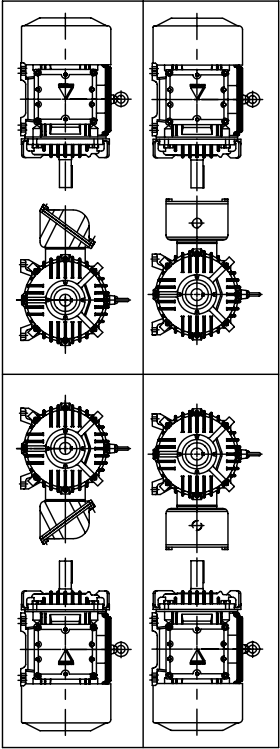
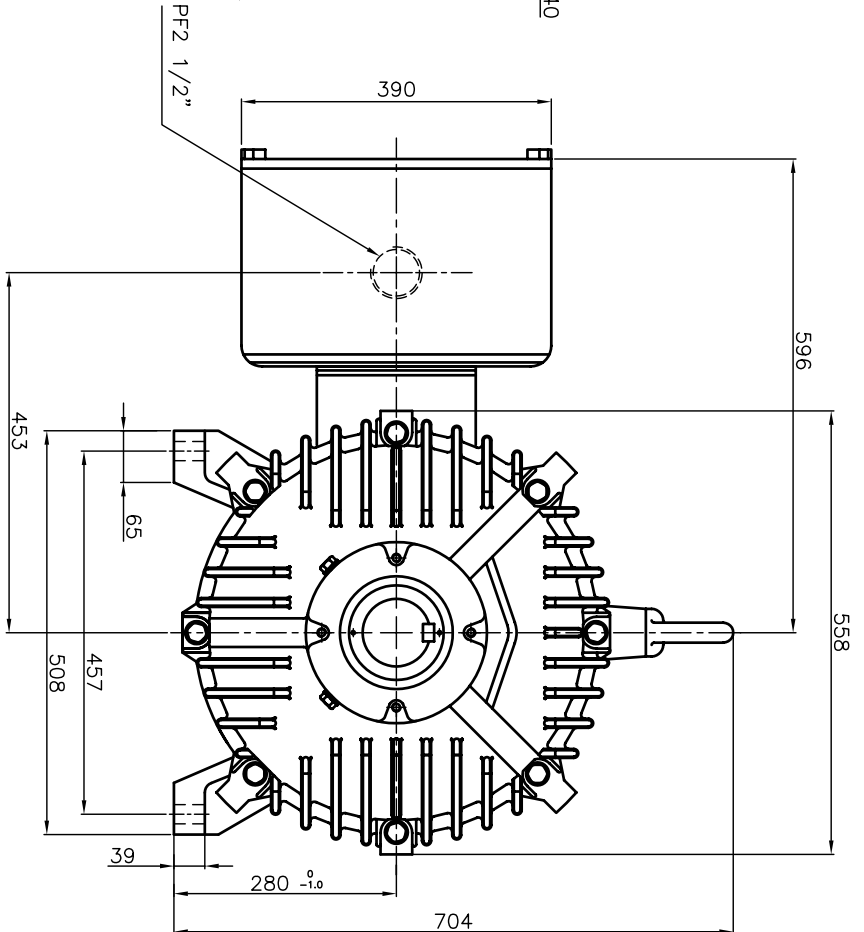
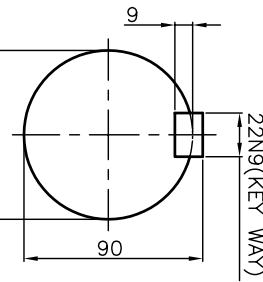
OUTPUT VS EFF., P.F & CURRENT CURVE





* TERMINAL BOX LOCATION

VIEW "A"
SCALE 2.5/1

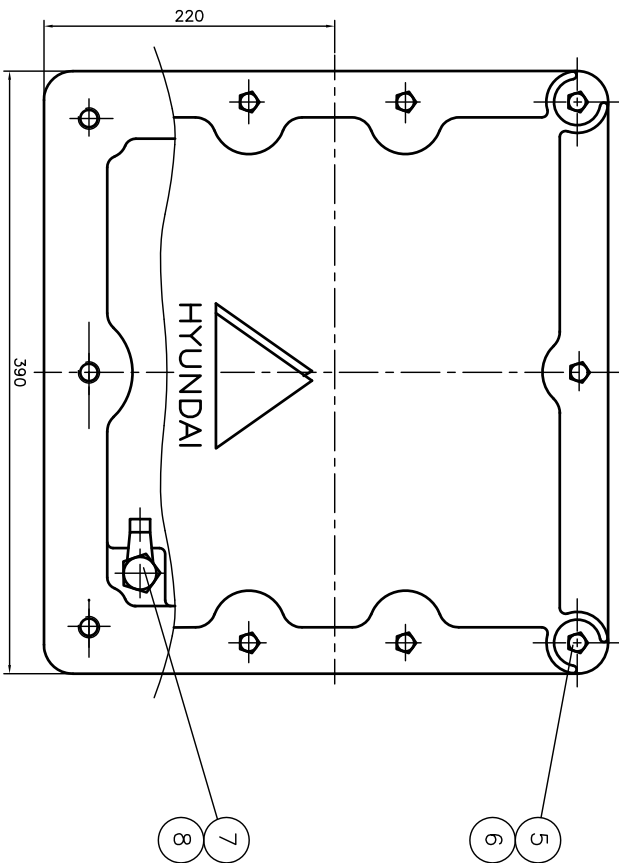
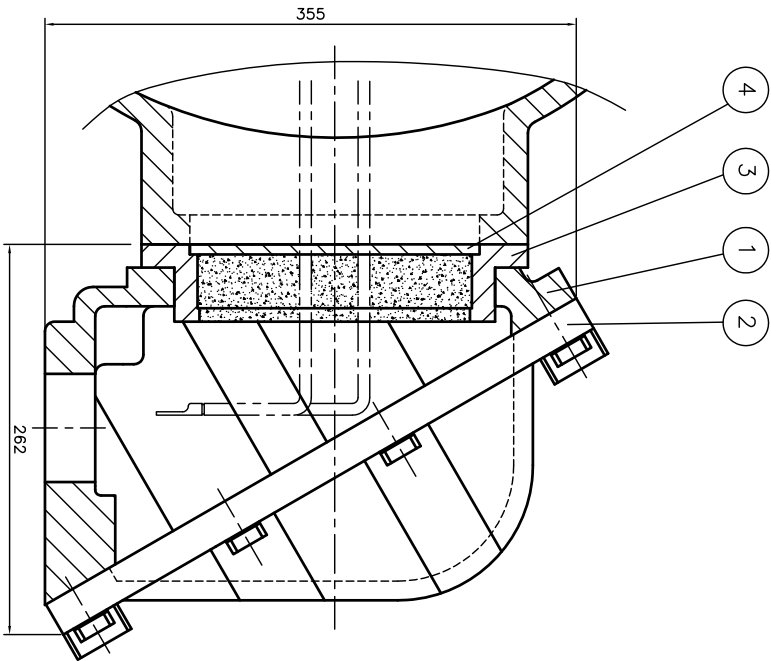


Ex d IIB T4
(EXPLOSION CONSTRUCTION & IGNITION GROU)

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

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				
CHKD BY	김옥진		SCALE	1/7			
CHKD BY	김종선		PROJEC'N	3rd Angle			
DSND BY	김형규		DATE	2005.06.07			
TITLE		OUTLINE DIMENSION					
SUBJECT		THREE-PHASE INDUCTION MOTOR					
REF. NO		DWG NO		G8BSAP-02		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	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.			
								Revision No.	

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

