



AC INDUCTION MOTOR DATA SHEET

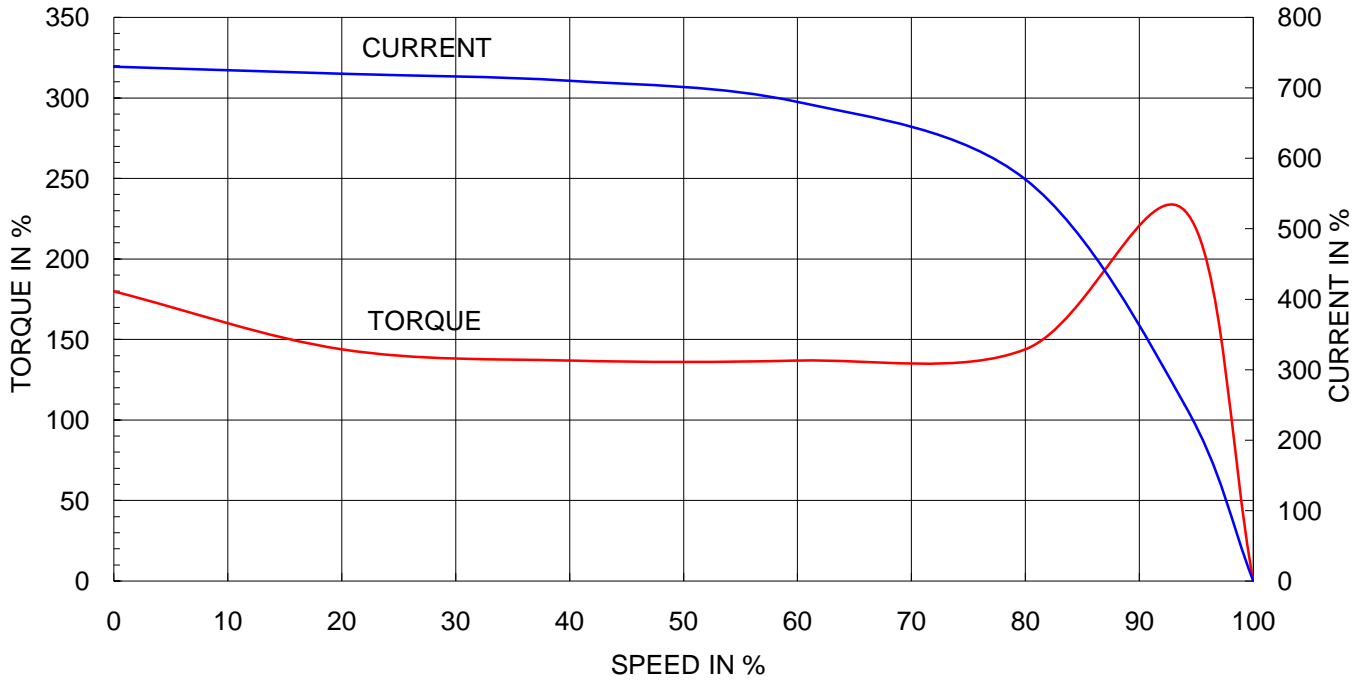
Model No.or RFQ No.		Item No.	Rev. No. [0]		
Project Name		Project No.	Quantity sets		
GENERAL SPECIFICATION		PERFORMANCE DATA			
Frame Size	280S	Rated Output	110 kW 150 HP		
Type	HS-110/4	Number of Poles	4		
Enclosure(Protection)	Explosion Proof (IP55)	Rotor Type	Squirrel Cage		
Method of Cooling	IC411(FC)	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	172.7 A 199.9 A 345.3 A	
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	730 % 730 % 730 %	
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 94.9 %			
Altitude Less than 1000 meter		100% Load 95.0 %			
Relative Humidity Less than 80 %		Power Factor(p.u)			
Ambient Temp. 40 deg. C (Max.)		50% Load 0.780			
Duty Type Continuous (S1)		75% Load 0.855			
Service Factor 1.00		100% Load 0.880			
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			
	DE/N-DE	6318C3 / 6314C3			
	Lubricant	Grease(Gadus S2 V 100 2)			
External Thrust		Not applicable			
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.) 78.200 kg·m ²			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Location		Refer to Outline Drawing			
Application		Sound Pressure Level (No-load & mean value at 1m from motor)			
Area classification Hazardous		84 dB(A)			
Type of Ex-Protection Ex d II T4		Vibration 2.2 mm/sec (r.m.s)			
Applicable Standard KS,IEC		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	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.

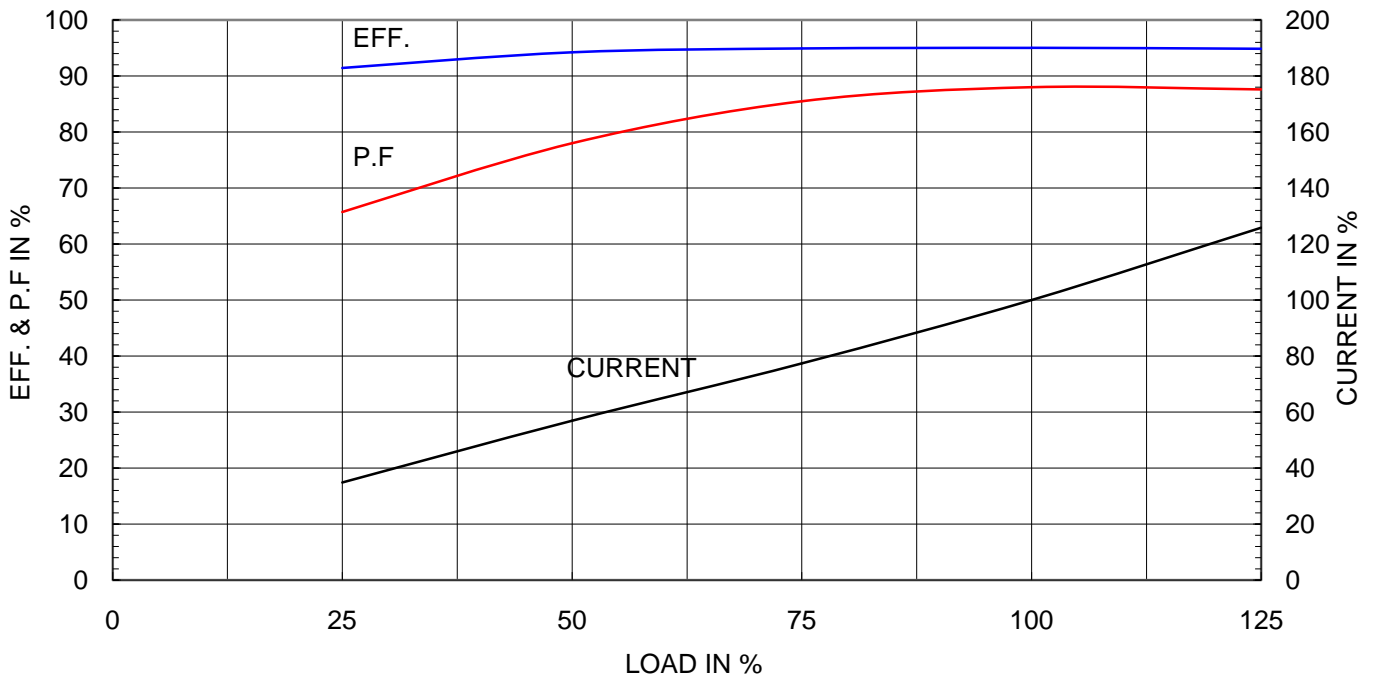
Type	: GHB280M
Full Load Torque	: 60.0 Kg.m
Motor moment of Inertia (J)	: 3.023 Kg.m ²
Load moment of Inertia (J)	: 78.200 Kg.m ²

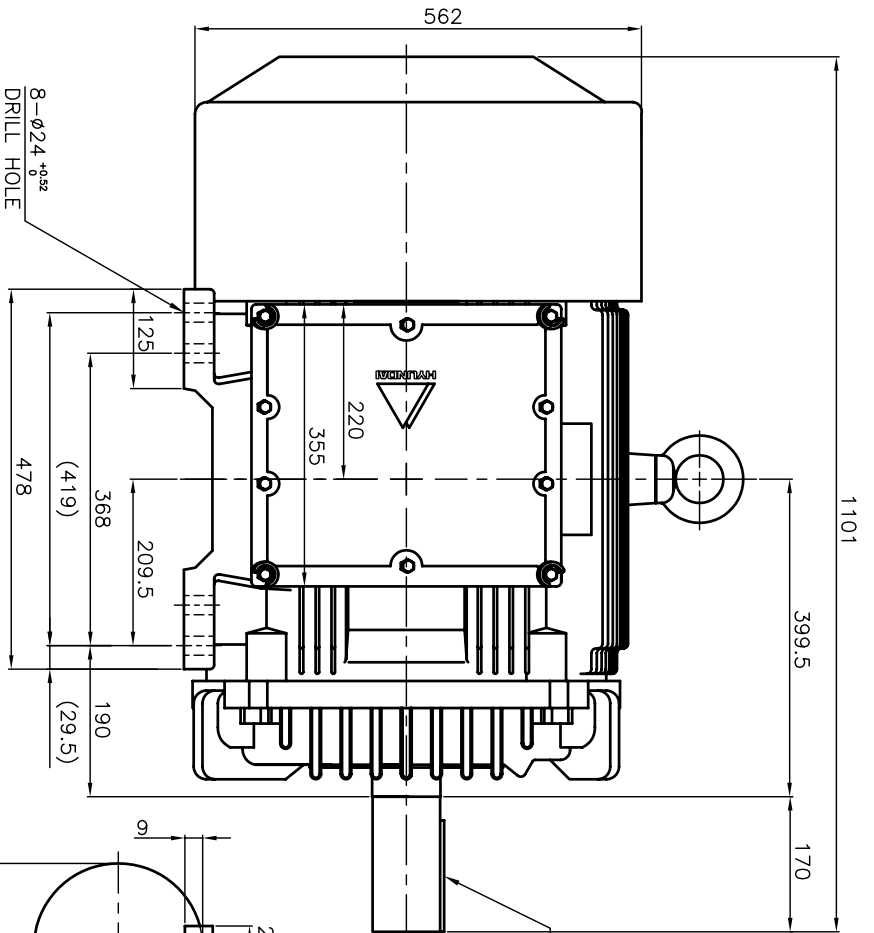
110 kW	4 P	60 Hz	
Speed at Full Load : 1785 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	172.7A	199.9A	345.3A

SPEED VS TORQUE & CURRENT CURVE



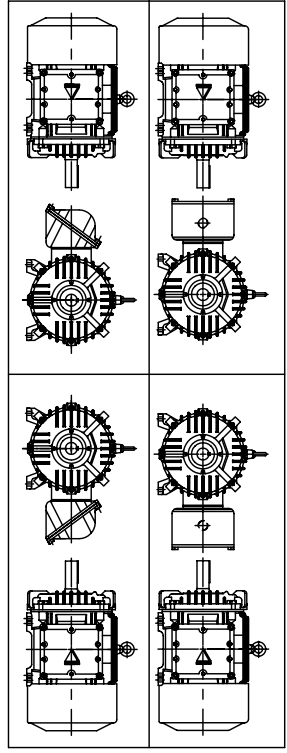
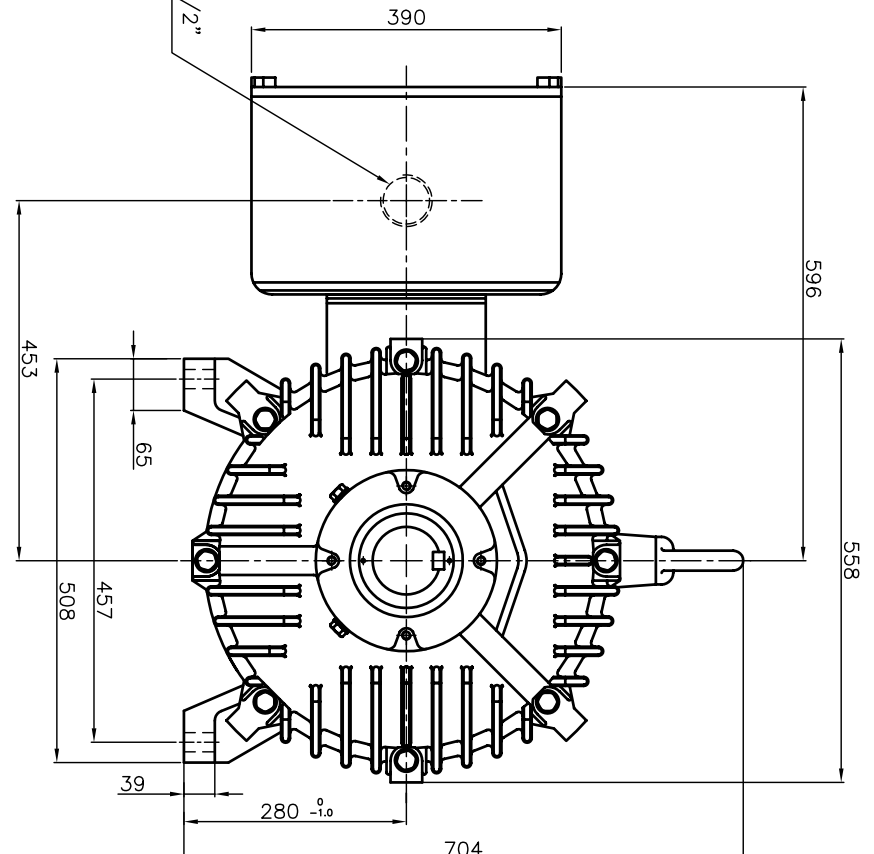
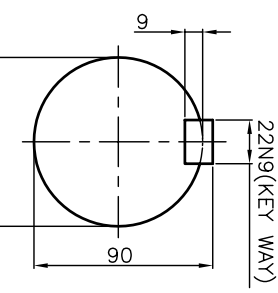
OUTPUT VS EFF., P.F & CURRENT CURVE





* TERMINAL BOX LOCATION

VIEW "A"
SCALE 2.5/1

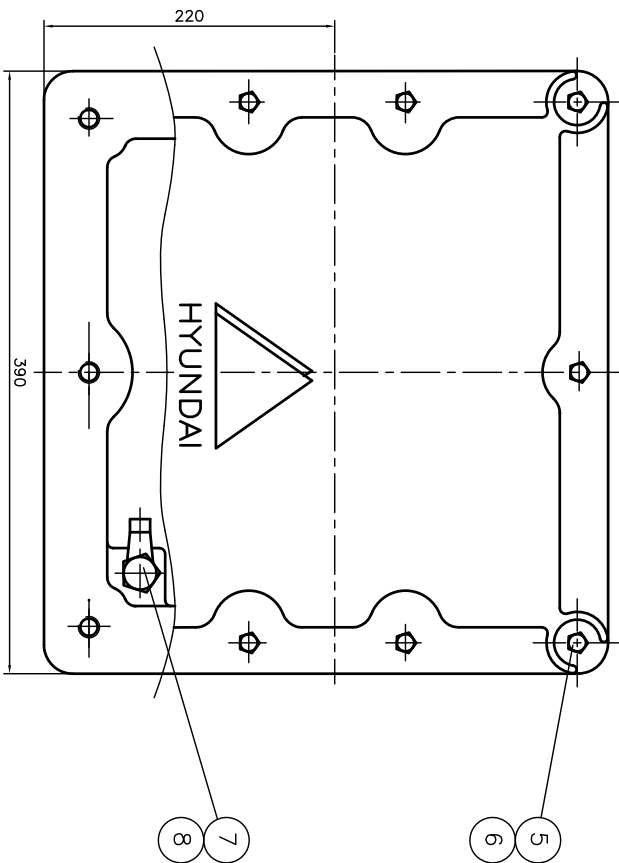
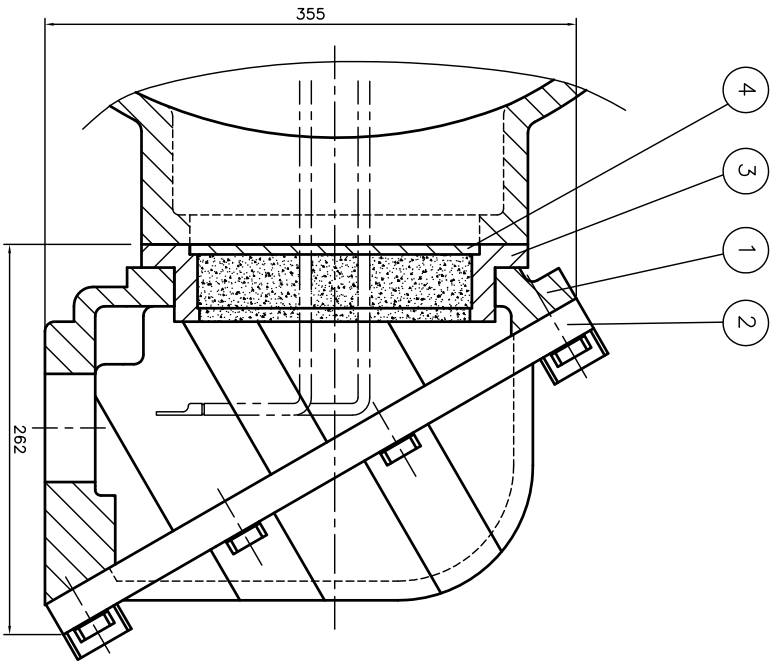


Ex d IIB T4
(EXPLOSION CONSTRUCTION & IGNITION GROU)

▽	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.	Revision No.						
of							



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					

