



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	280M	Rated Output	132 kW	175 HP
Type	HS-132/2	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	200.3 A 231.9 A 400.6 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	700 % 700 % 700 %
Temp. Rise at full load (by resistance method)		Efficiency		
at 1.0 S.F	80 deg. C	50% Load 92.8 %		
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load 94.1 %		
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 0.912		
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		
	DE/N-DE	6314C3 / 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.) 14.375 kg·m ²		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor 2.400 kg·m ²	
	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		
Application		Vibration 2.2 mm/sec (r.m.s)		
Area classification	Hazardous	Permissible number of consecutive starts	Cold	3 times
Type of Ex-Protection	Ex d II T4		Hot	2 times
Applicable Standard	KS,IEC	Paint	Munsell No.	4.OPB5.4/5.5(VL-451)

ACCESSORIES	SUBMITTAL DRAWING												
	Outline Dimension Drawing \ Motor Weight(Approx.)												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>B3</td> <td>GJ8MAC01</td> <td>1020 kg</td> </tr> <tr> <td>B5</td> <td>0</td> <td>0 kg</td> </tr> <tr> <td>V1</td> <td></td> <td>kg</td> </tr> <tr> <td>B3/B5</td> <td>0</td> <td>0 kg</td> </tr> </table>	B3	GJ8MAC01	1020 kg	B5	0	0 kg	V1		kg	B3/B5	0	0 kg
B3	GJ8MAC01	1020 kg											
B5	0	0 kg											
V1		kg											
B3/B5	0	0 kg											
	Main T-Box Ass'y 3M-036962												

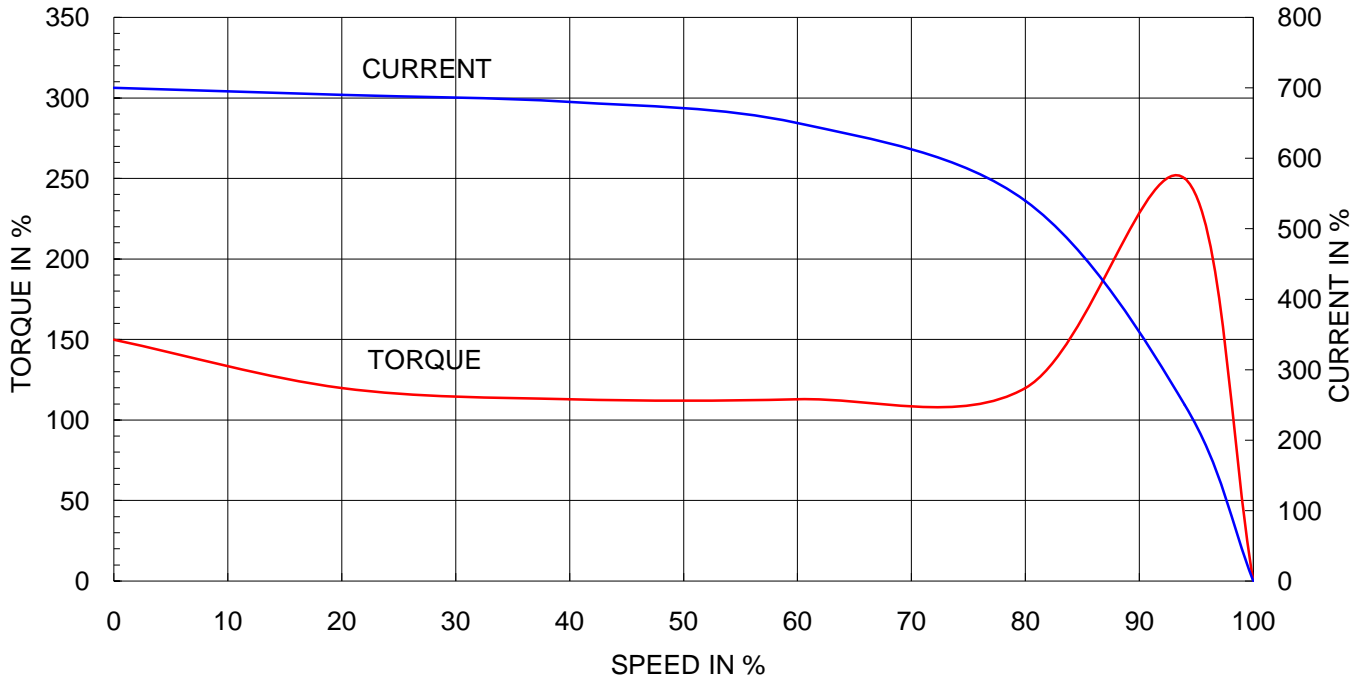
SPARE PARTS	REMARK
	High Efficiency
Date	DSND CHKD CHKD APPD
2010-05-28	R.G. KIM O.J. KIM J.H. KIM K.J. KANG

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.

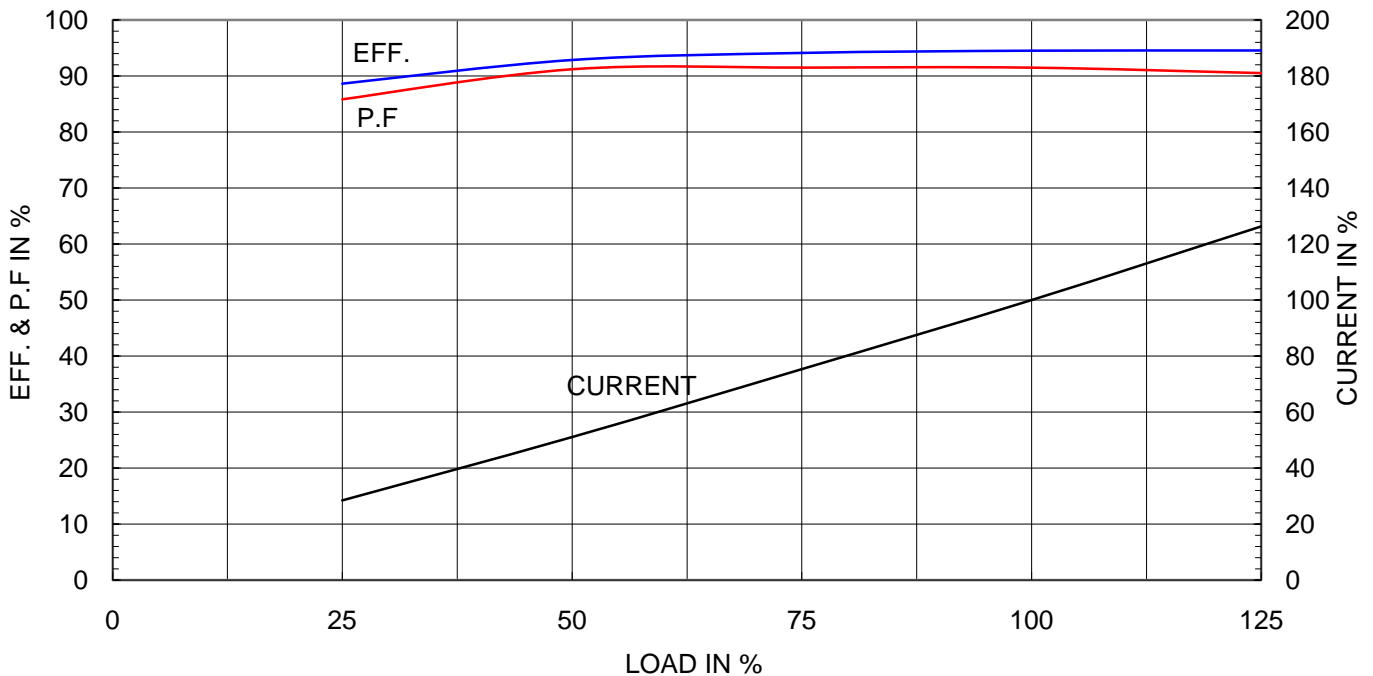
Type	: GHB280M
Full Load Torque	: 36.0 Kg.m
Motor moment of Inertia (J)	: 2.400 Kg.m ²
Load moment of Inertia (J)	: 14.375 Kg.m ²

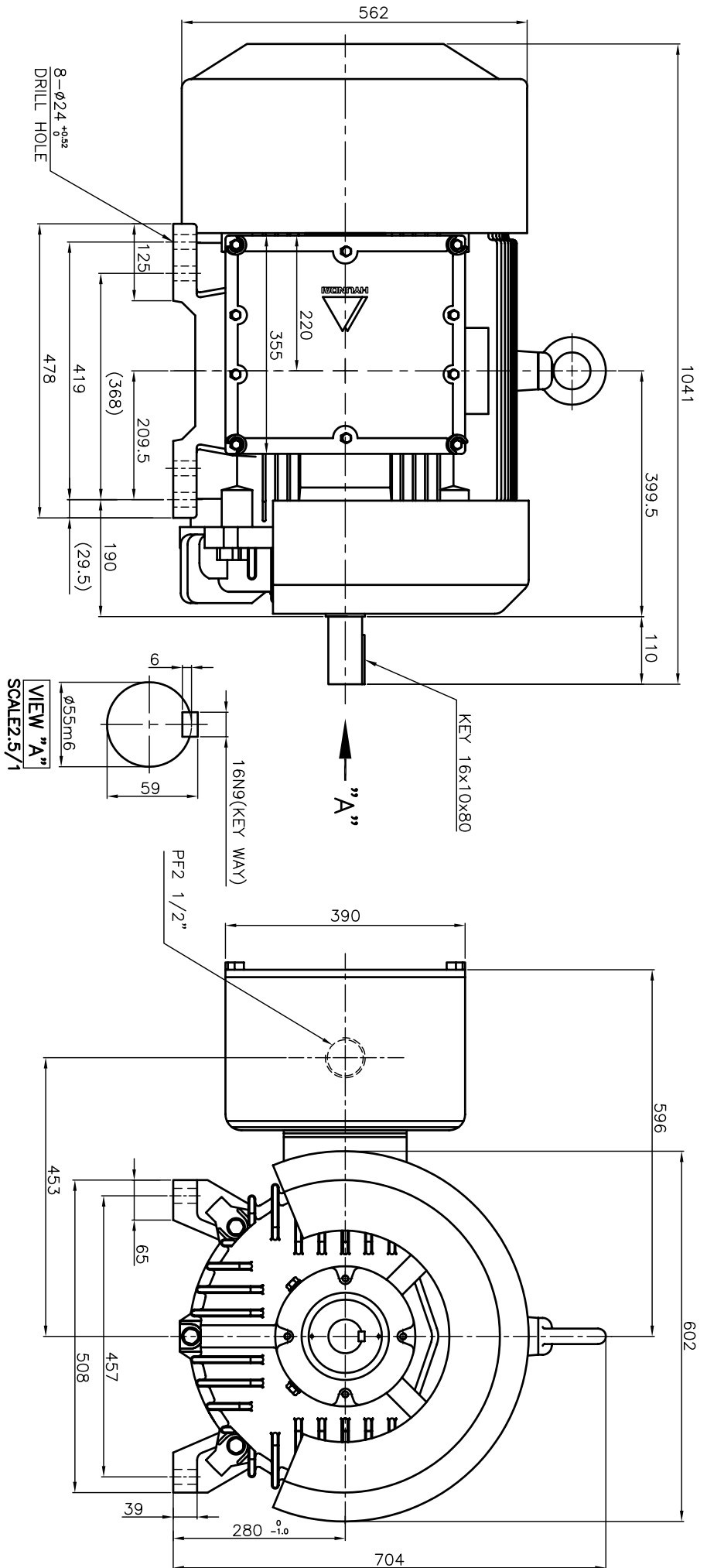
132 kW	2 P	60 Hz	
Speed at Full Load : 3570 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	200.3A	231.9A	400.6A

SPEED VS TORQUE & CURRENT CURVE

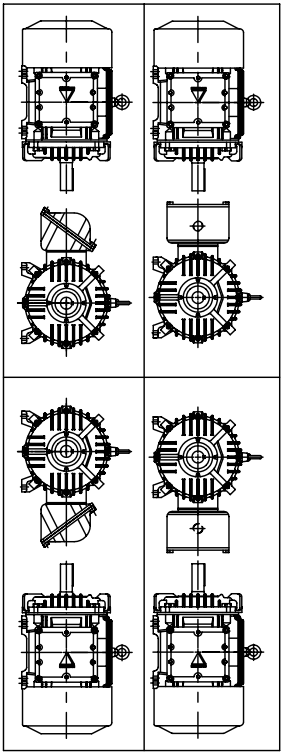


OUTPUT VS EFF., P.F & CURRENT CURVE





* TERMINAL BOX LOCATION



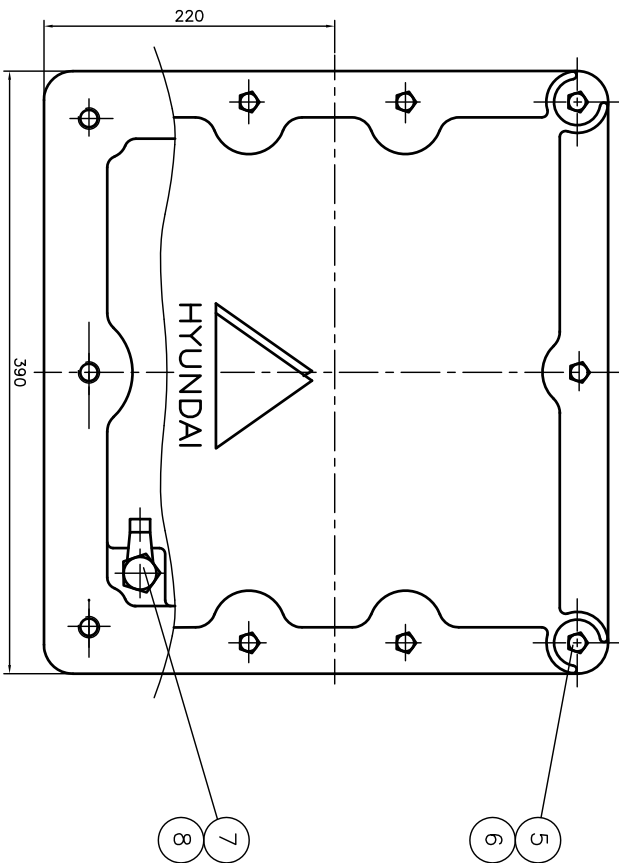
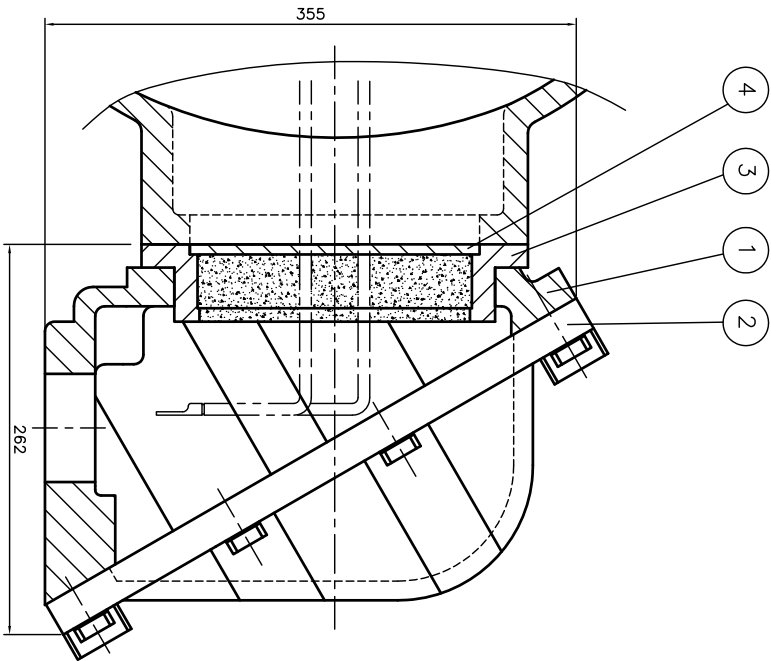
Ex d II B T4
(EXPLOSION CONSTRUCTION & IGNITION GROU)

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

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

일반 가공 공차	일반 재료 공차
1-4 ±0.1	6-30 ±0.5
4-18 ±0.2	30-120 ±0.8
18-63 ±0.3	120-315 ±1.2
63-250 ±0.5	315-1000 ±2.0
250-1000 ±0.8	1000- ±3.0

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	강경중		UNIT			SUBJECT	CAD PRO FILE
CHKD BY	김옥진		SCALE	1/7		KS FR.280M, CTYPE, EP	MMSTD/MTR GJBMAC01
CHKD BY	김홍선		PROJEC'N	3rd Angle		TITLE	OUTLINE DIMENSION
DSND BY	김형규		DATE	2005.06.07		THREE-PHASE INDUCTION MOTOR	
REF. NO			DWG NO	GJBMAC-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	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
CHKD 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					

