



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	280LL	Rated Output	160 kW 214 HP		
Type	HS-160/2	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	241.5 A	279.7 A 483.0 A
Insulation Class	<input 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		50% Load 93.8 %			
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load 94.8 %			
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 0.912			
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	Torque			
	DE/N-DE 6314C3 / 6314C3	Full Load 43.7 kg·m			
	Lubricant Grease(Gadus S2 V 100 2)	Locked-rotor** 150 %			
External Thrust	Not applicable	Breakdown** 230 %			
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 2.540 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	92 dB(A)			
Application		Vibration 2.2 mm/sec (r.m.s)			
Area classification	Hazardous	Permissible number of consecutive starts		Cold 3 times	Hot 2 times
Type of Ex-Protection	Ex d II T4	Paint	Munsell No.	4.0PB5.4/5.5(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>GJ8XAC01</td> <td>1220 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	GJ8XAC01	1220 kg	B5	0	0 kg	V1		kg	B3/B5	0	0 kg
B3	GJ8XAC01	1220 kg											
B5	0	0 kg											
V1		kg											
B3/B5	0	0 kg											
	Main T-Box Ass'y 3M-036962												

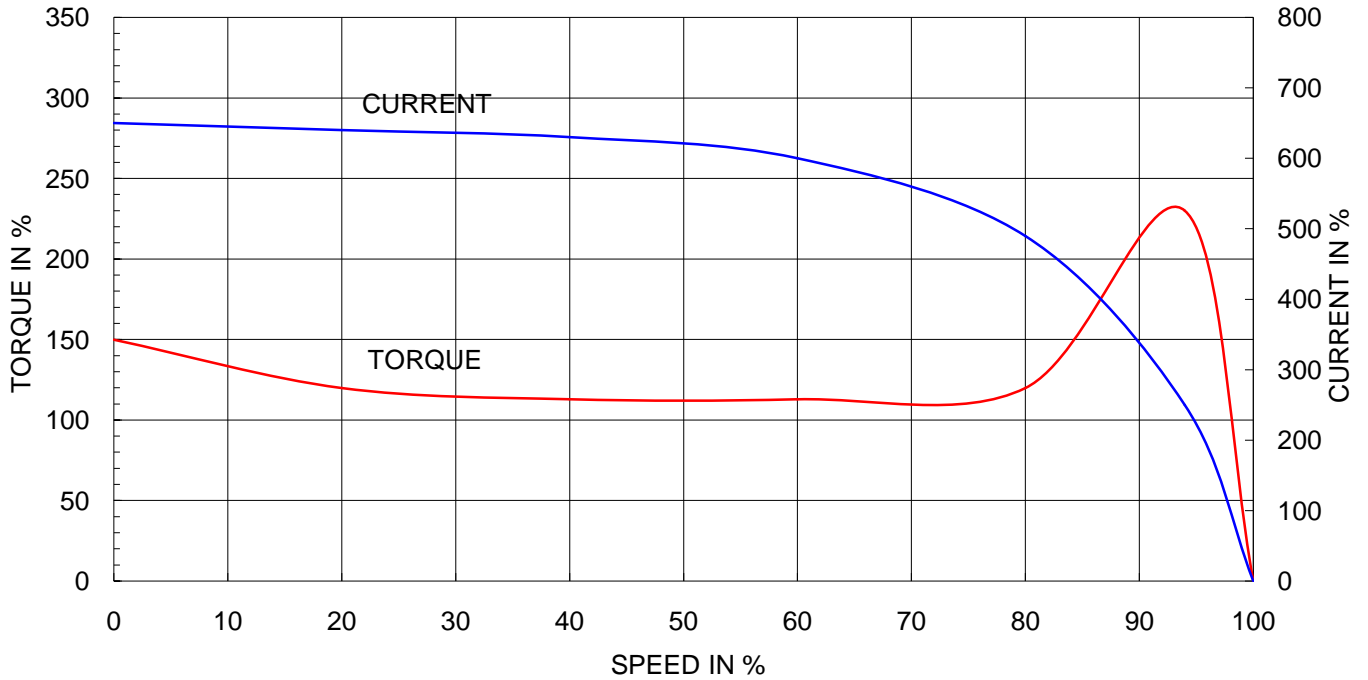
SPARE PARTS	REMARK
	High Efficiency
Date	DSND CHKD CHKD APPD
2010-05-28	R.G. KIM O.J. KIM J.H. KIM K.J. KANG

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.

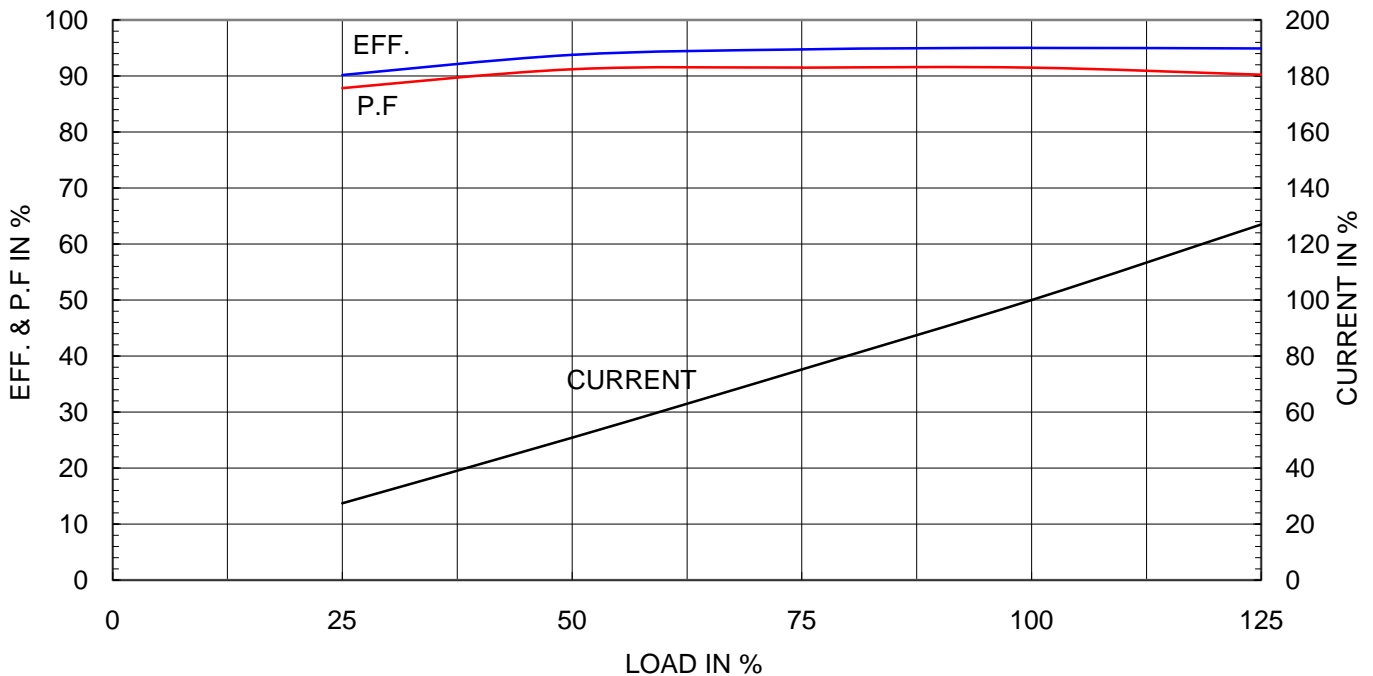
Type	:	GHB280L
Full Load Torque	:	43.7 Kg.m
Motor moment of Inertia (J)	:	2.540 Kg.m ²
Load moment of Inertia (J)	:	14.375 Kg.m ²

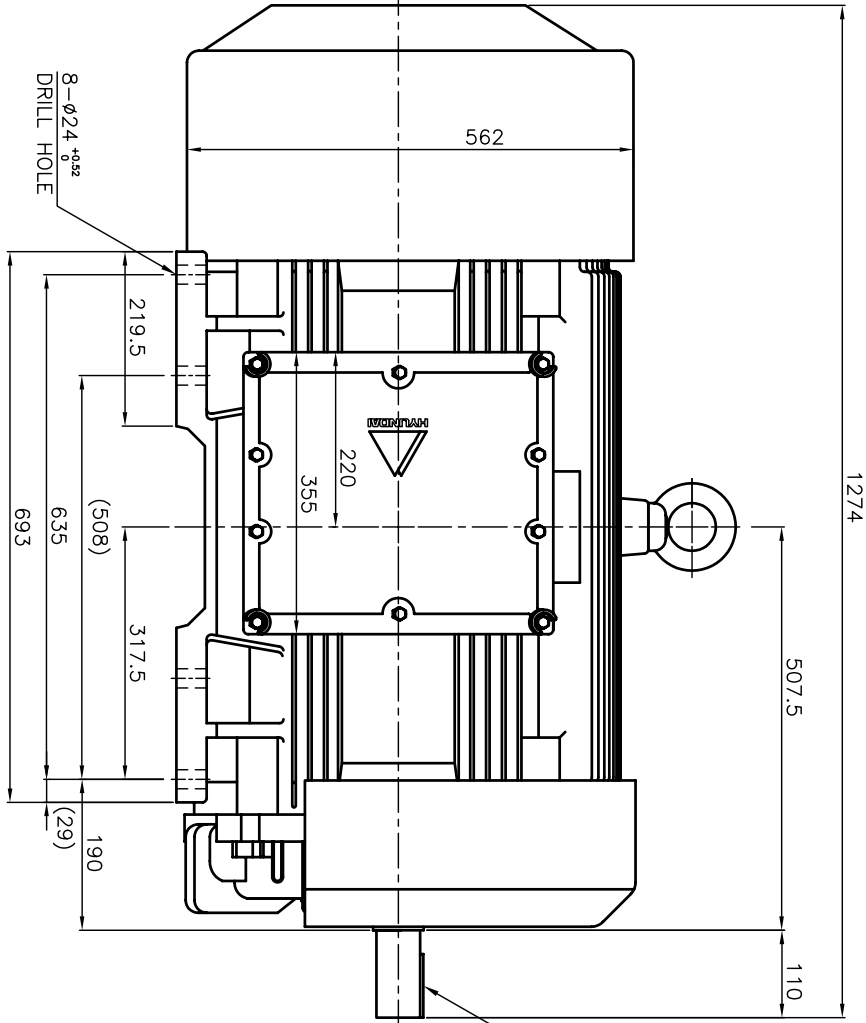
160 kW	2 P	60 Hz	
Speed at Full Load : 3570 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	241.5A	279.7A	483.1A

SPEED VS TORQUE & CURRENT CURVE

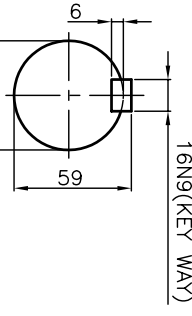
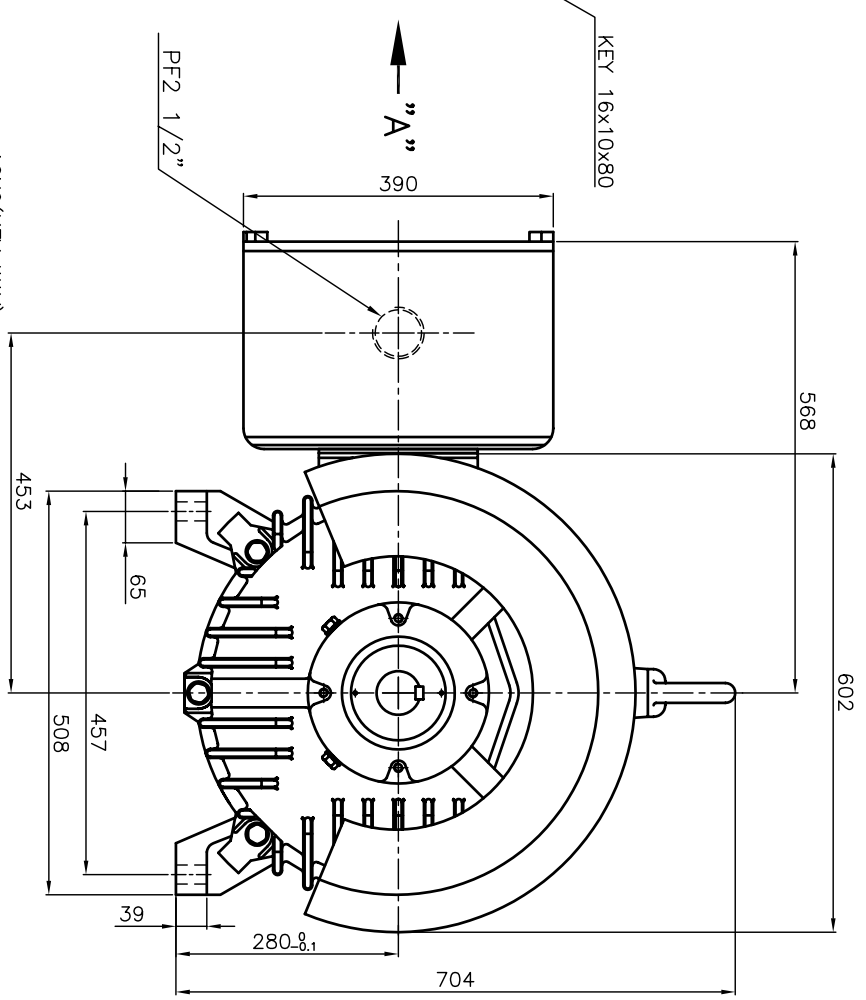
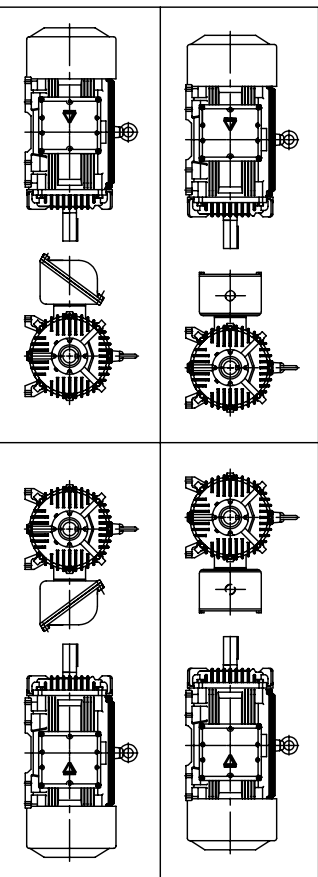


OUTPUT VS EFF., P.F & CURRENT CURVE





* TERMINAL BOX LOCATION



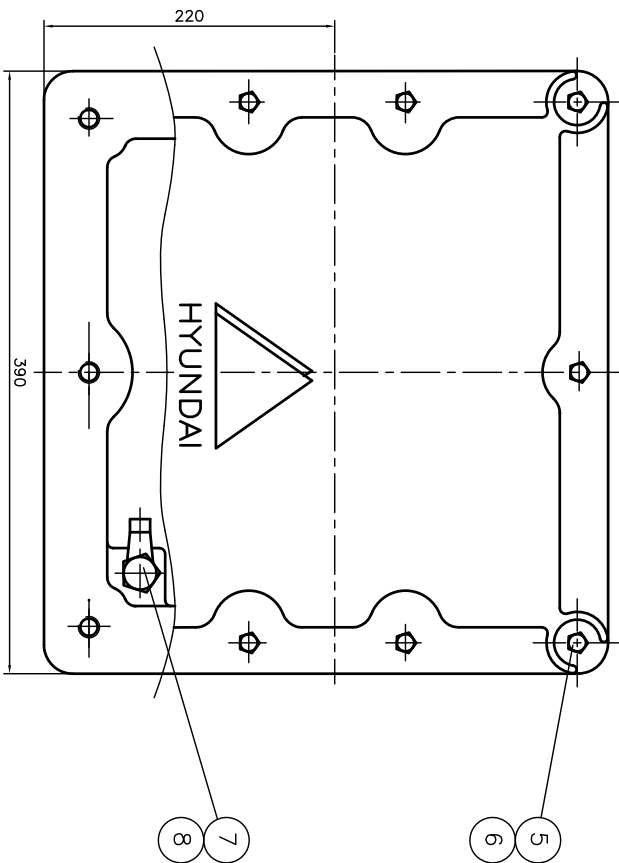
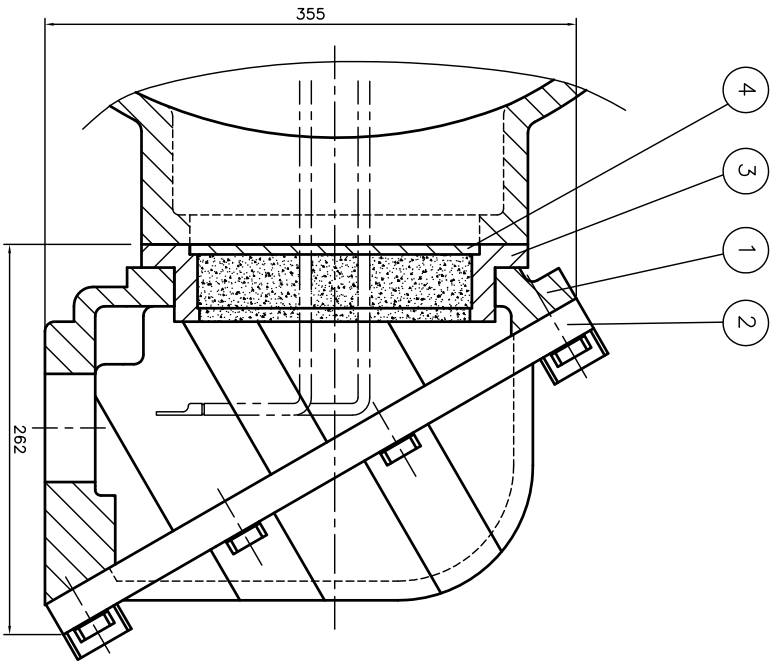
VIEW "A"
SCALE 2.5/1

Explosion Construction & Ignition Group

▽	50S	
▽▽	12.5S	
▽▽▽	3.2S	
▽▽▽▽	0.4S	

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY	250-	±0.1	±0.2	±0.3	±0.5	±0.8	±1.0	±1.2	±2.0	±3.0
1							1-4	6-30	30-120	120-315	315-1000	1000-				
2							4-18	30-120	120-315	315-1000	1000-					
3							18-63	30-120	120-315	315-1000	1000-					
4							63-250	30-120	120-315	315-1000	1000-					
5																

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	강경중		MM				
CHKD BY	김옥진		1/7				
CHKD BY	김중선		3rd Angle				
DSND BY	김영규		DATE	2005.06.07			
TITLE		SUBJECT		SHEET		NO.	
OUTLINE DIMENSION		KS FR.280LL. CTYPE. EP		1		1	
THREE-PHASE INDUCTION MOTOR		MMSTD/MTR (G8BXAC01)		G8BXAC-01		Revision No.	
REF. NO.		DWG NO.		Sheet No.		of	
		G8BXAC-01					



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)	GO PROJ & FILE #
Q.P. CHK	SCALE	NONE	TITLE	TERMINAL BOX ASS'Y	F-300-4 \ 300007
CHGD BY	PROJECN	3.24(3rd Angle)			
DSND BY	KIM JONG SEON	DATE	98.10.30		
				REF. NO	
				DWG NO	3M-036962
				Sheet No.	
				of	
				Revision No.	

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

