

# AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No. [ 0 ]			
Project Name		Project No.		Quantity sets			
<b>GENERAL SPECIFICATION</b>			<b>PERFORMANCE DATA</b>				
Frame Size	280LL		Rated Output	200 kW 268 HP			
Type	HS-200/4		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	312.1 A 361.4 A 624.3 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 94.5 %				
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load 95.0 %				
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 0.860				
Duty Type Continuous ( S1 )			75% Load 0.880				
Service Factor 1.00			100% Load 0.885				
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	Torque				
	DE/N-DE	NU320M / 6318C3	Full Load 109.1 kg·m				
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 170 %				
External Thrust Not applicable			Breakdown** 220 %				
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.) 139.850 kg·m²				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor 5.488 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			85 dB(A)				
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification Hazardous			Permissible number of				
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)		
<b>ACCESSORIES</b>			<b>SUBMITTAL DRAWING</b>				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	GJ8XAP02	1400 kg		
			B5	0	0 kg		
			V1	GJ8XPP02	1470 kg		
			B3/B5	0	0 kg		
			Main T-Box Ass'y			3M-036962	
<b>SPARE PARTS</b>			<b>REMARK</b>				
			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.

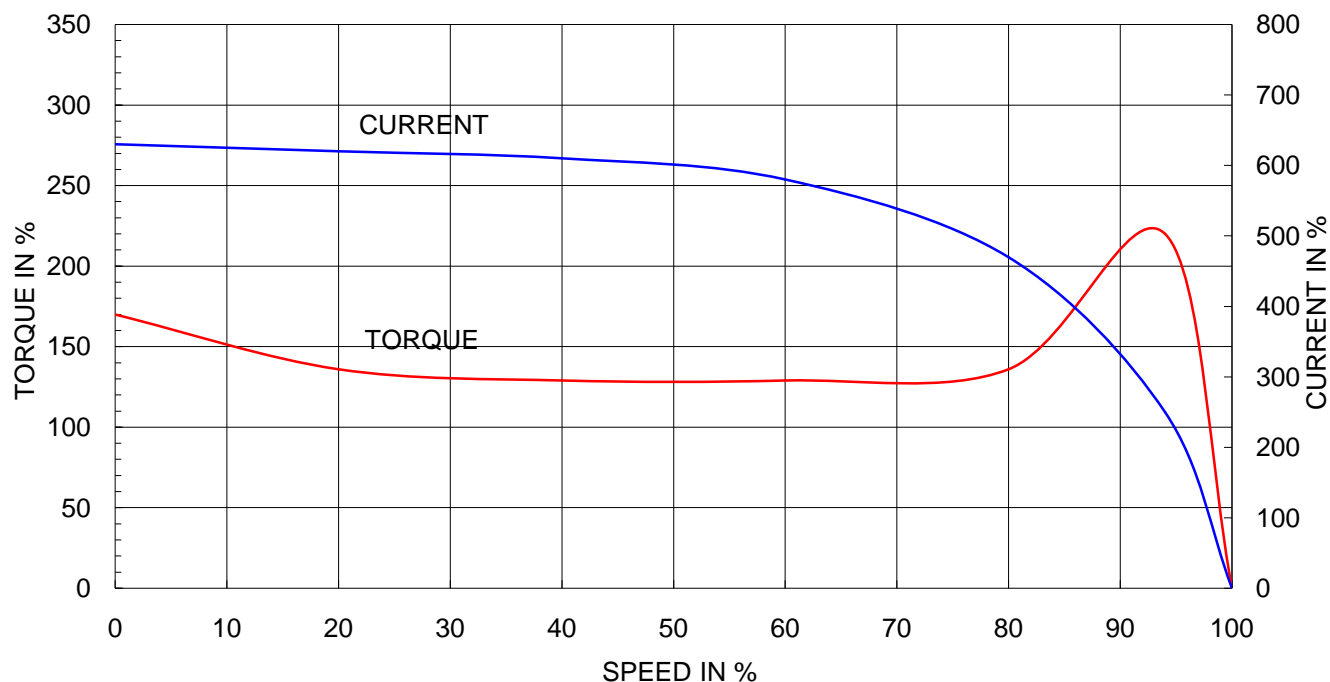
\* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

\*\* 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.

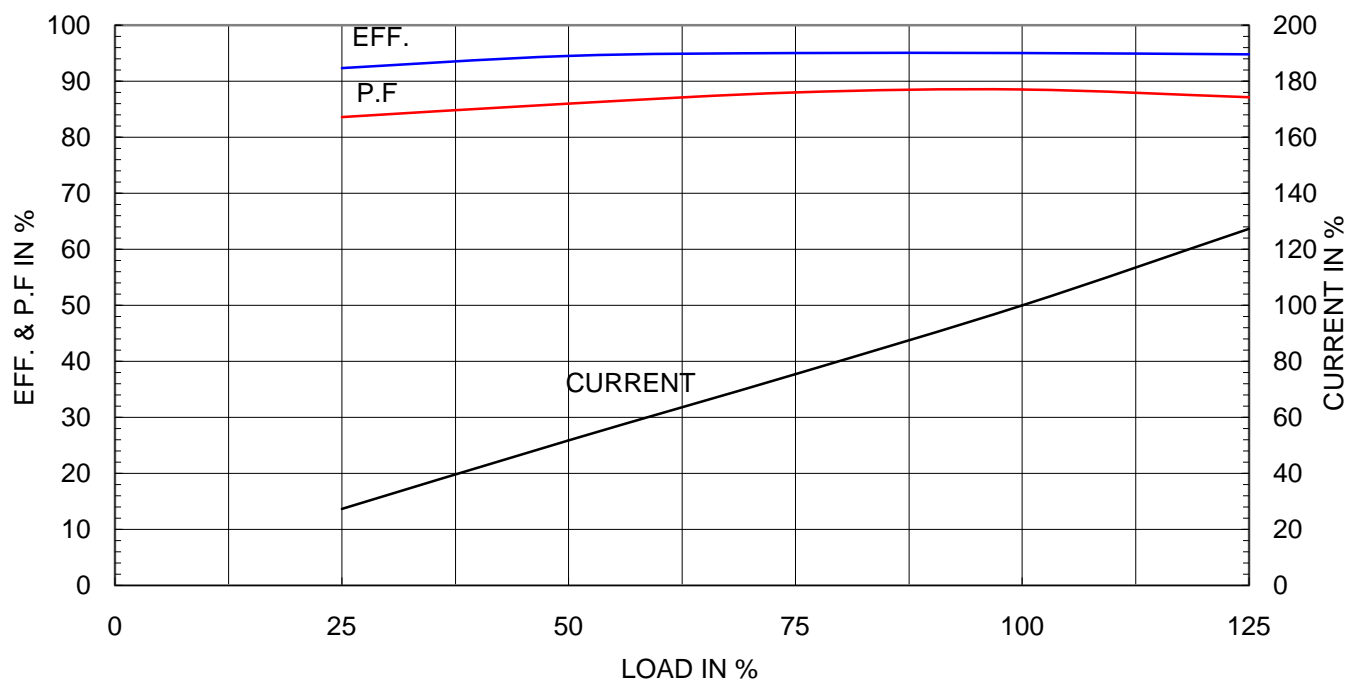
Type	:	GHB280X
Full Load Torque	:	109.1 Kg.m
Motor moment of Inertia (J)	:	5.488 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	139.850 Kg.m <sup>2</sup>

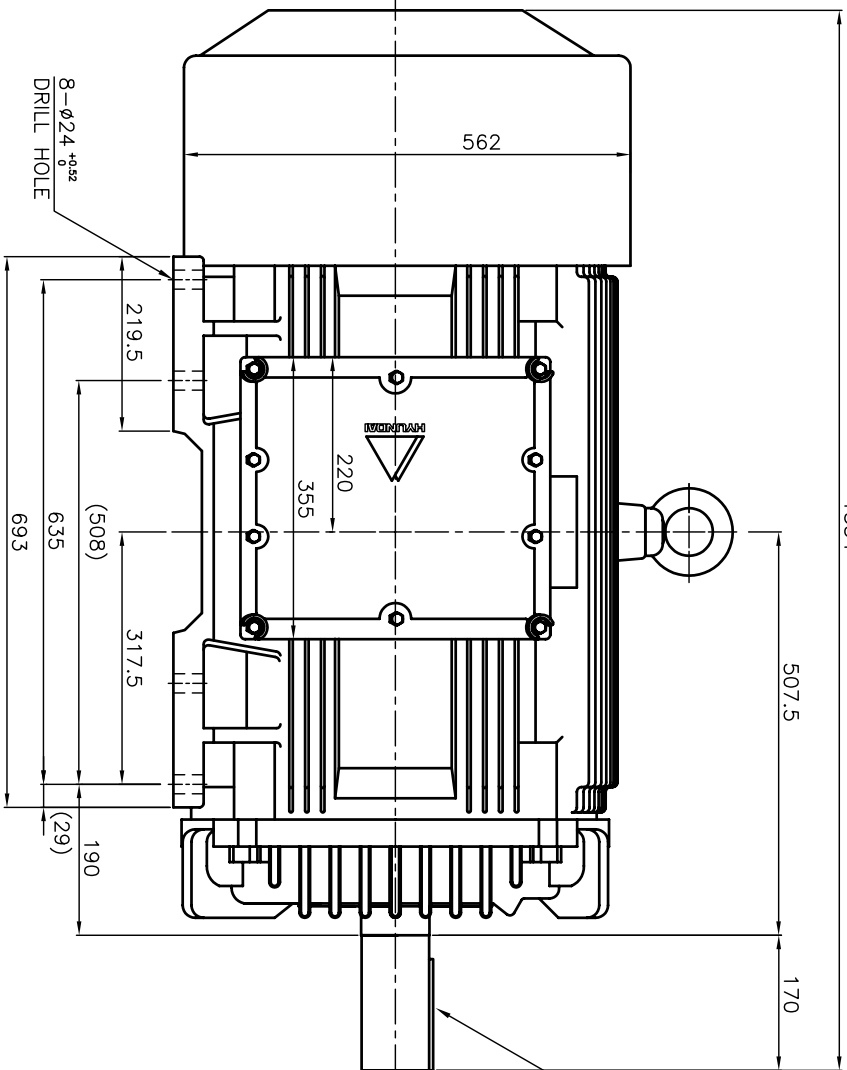
200 kW		4 P		60 Hz	
Speed at Full Load :				1785 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	312.1A	361.4A	624.3A		

SPEED VS TORQUE & CURRENT CURVE



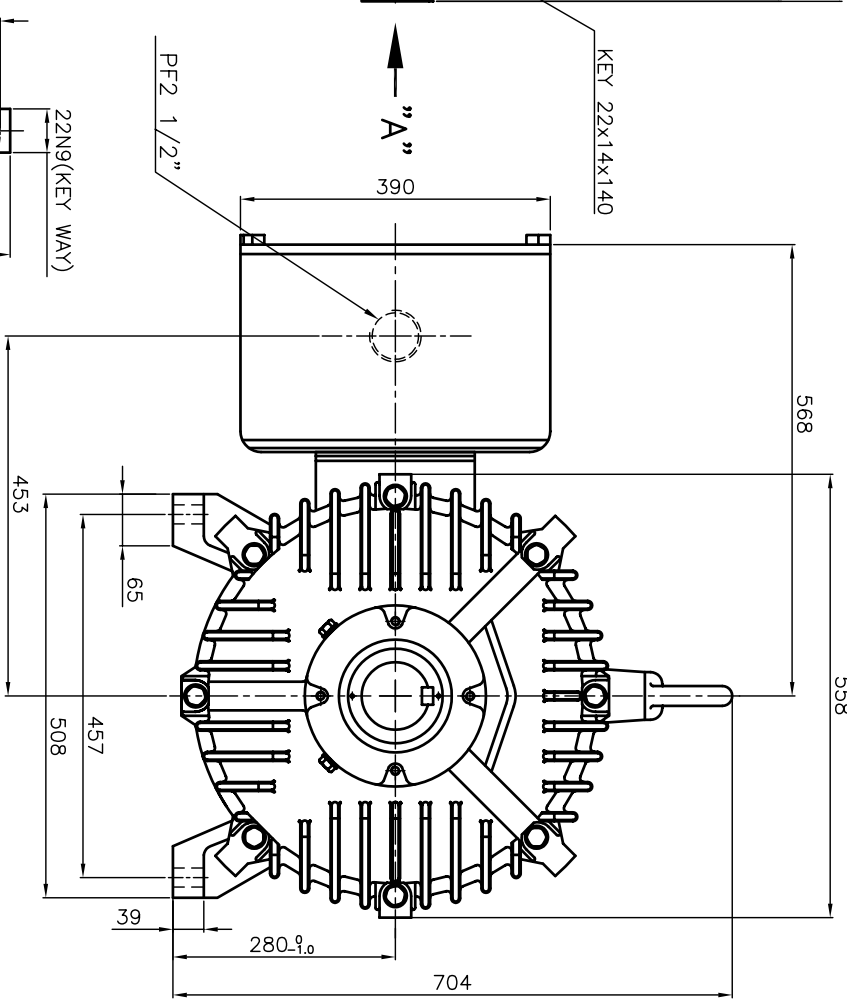
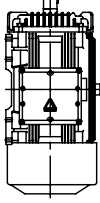
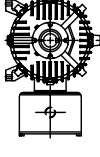
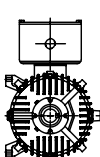
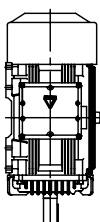
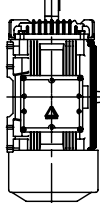
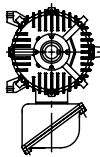
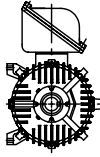
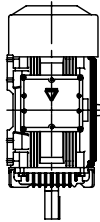
OUTPUT VS EFF., P.F & CURRENT CURVE





\* TERMINAL BOX LOCATION

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S



VIEW "A"

SCALE 2.5/1

(EXPLOSION CONSTRUCTION & IGNITION GROF)

EX d II B T4

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	강경호	UNIT	MM				
CHKD BY	김옥진	SCALE	1/7				
CHKD BY	김종선	PROJEC'N	3rd Angle				
DSND BY	김형규	DATE	2005.06.07				
TITLE				REF. NO	DWG NO	Sheet No. of	
OUTLINE DIMENSION					GJ8XAP-02	Revision No.	
THREE-PHASE INDUCTION MOTOR							



HYUNDAI  
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INDUSTRIAL & POWER SYSTEMS

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