

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-110/2		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	169.7 A 196.5 A 339.4 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 92.6 %				
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load 94.0 %				
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 0.896				
Duty Type Continuous (S1)			75% Load 0.900				
Service Factor 1.00			100% Load 0.900				
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 30.0 kg·m			
	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor** 150 %			
External Thrust Not applicable			Breakdown** 250 %				
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.) 12.350 kg·m²				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor 2.100 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		90 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			consecutive starts Cold 3 times				
Applicable Standard KS,IEC			Hot 2 times				
			Paint	Munsell No.	4.OPB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	GJ8SAC01	910 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

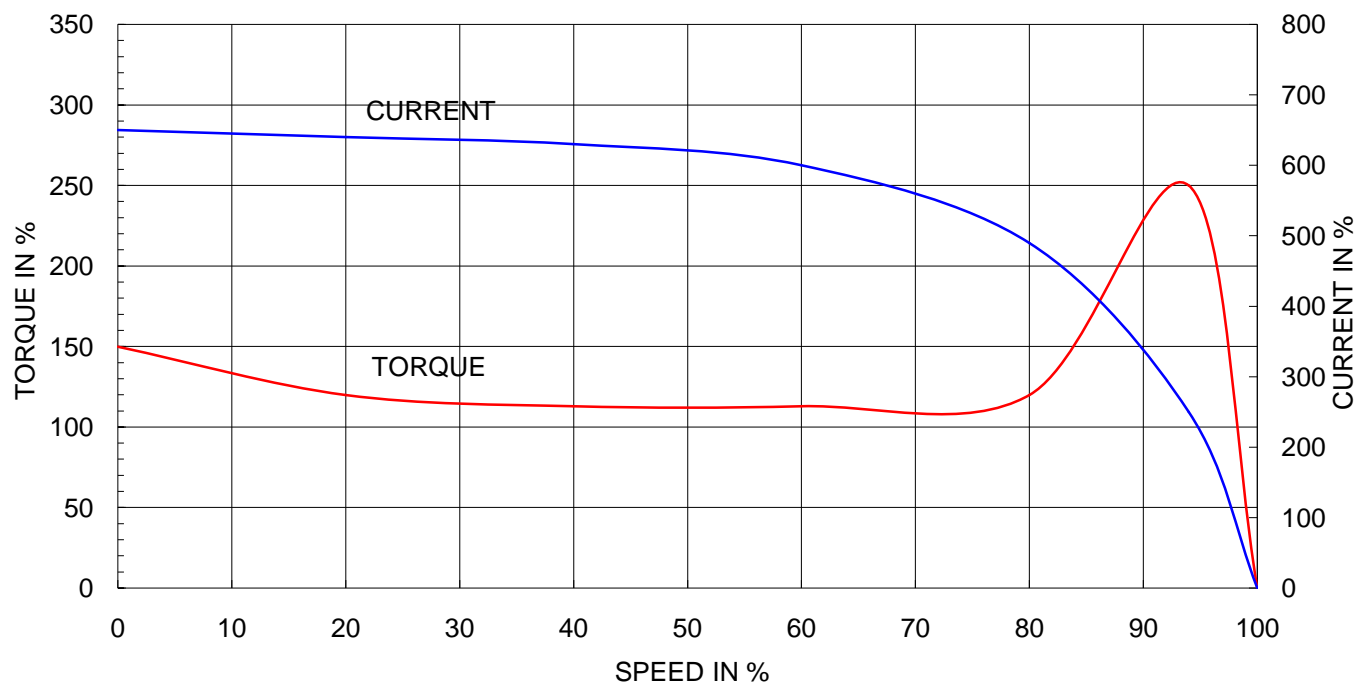
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed 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.

HHI W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

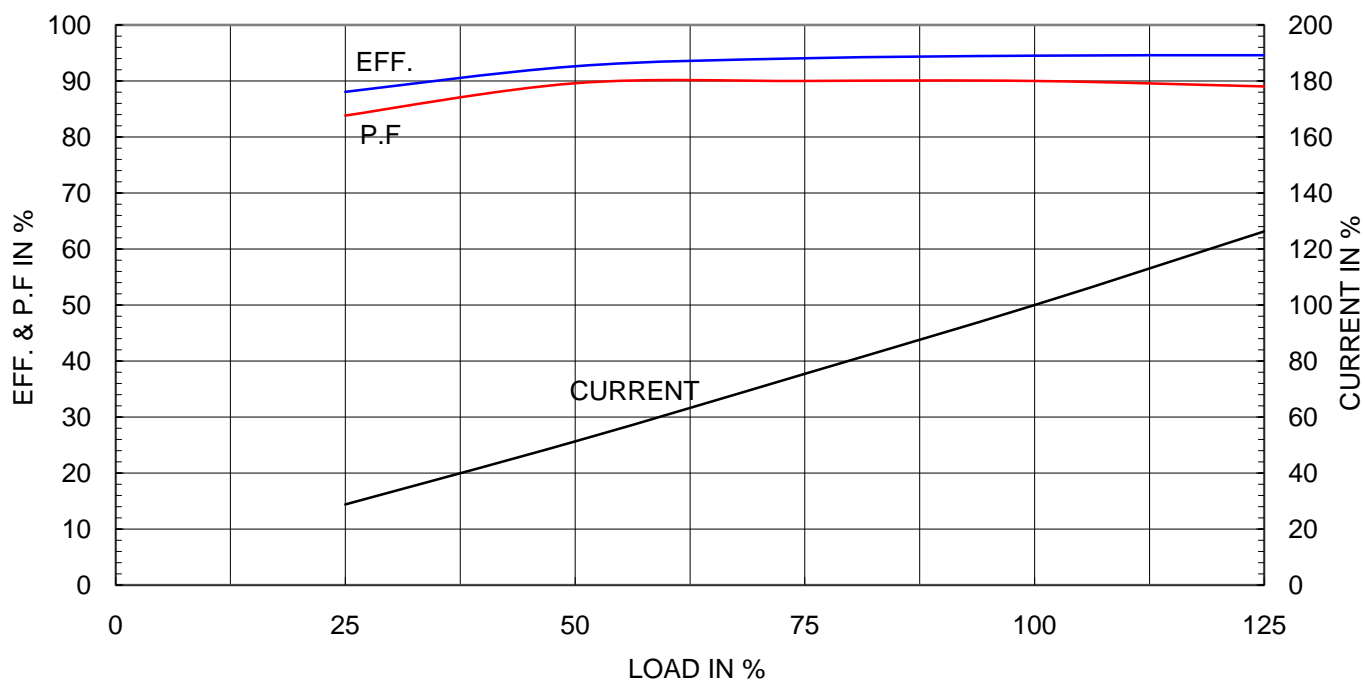
Type	:	GHB280M
Full Load Torque	:	30.0 Kg.m
Motor moment of Inertia (J)	:	2.100 Kg.m ²
Load moment of Inertia (J)	:	12.350 Kg.m ²

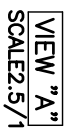
110 kW		2 P		60 Hz	
Speed at Full Load :				3570 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	169.7A	196.5A	339.4A		

SPEED VS TORQUE & CURRENT CURVE




OUTPUT VS EFF., P.F & CURRENT CURVE





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

QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	강경호	UNIT	mm			CAD PROJ \ FILE	
CHKD BY	김옥진	SCALE	1/7			MMSTDWTR\GJBSAC01	
CHKD BY	김홍선	PROJECTION	3rd Angle				
DSMD BY	김항구	DATE	2005.06.07				
		REF. NO				Sheet No.	of
		DWG NO	GJBSAC-01			Revision No.	
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS							

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