

AC INDUCTION MOTOR DATA SHEET

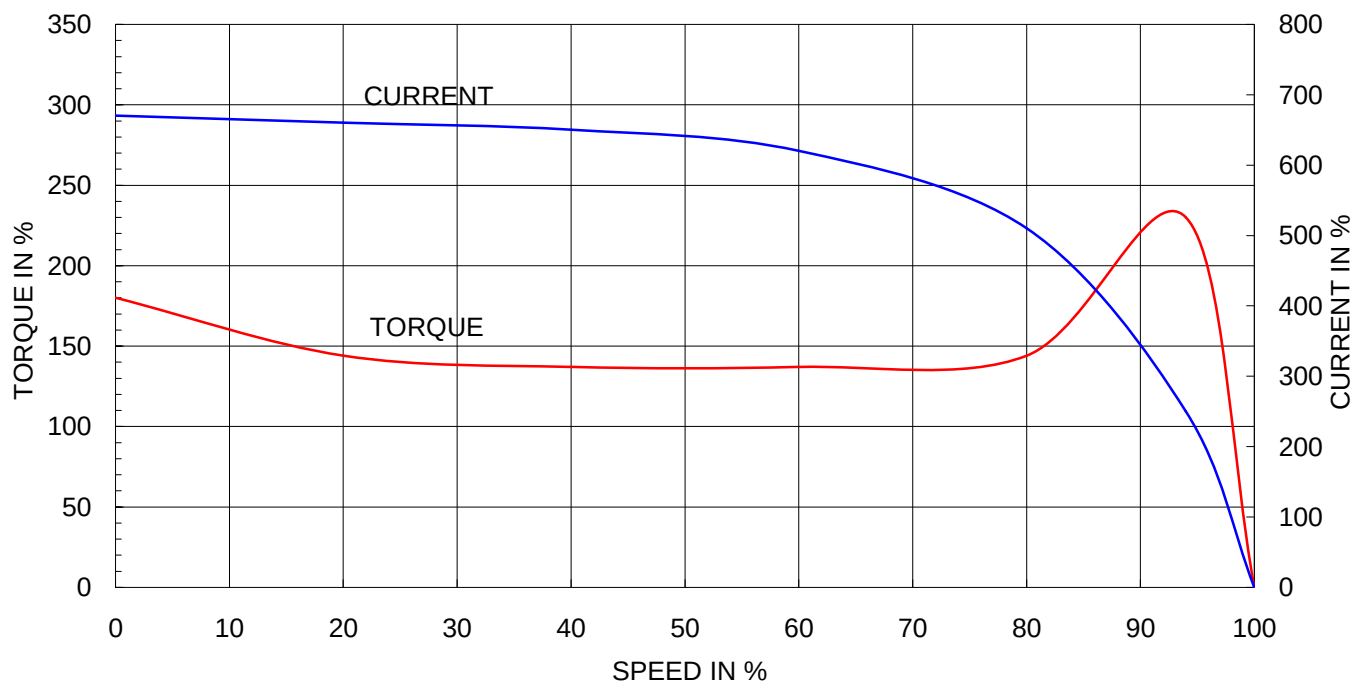
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	225S		Rated Output	55 kW 75 HP			
Type	HS-55/4		Number of Poles	4			
Enclosure(Protection)	Explosion Proof (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y- Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V		
Number of Phases	3		Current	Full Load	90.2 A 104.5 A 180.5 A		
Insulation Class	☒ F ☐ B ☐ H			Locked-rotor**	670 % 670 % 670 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 93.2 %				
Motor Location ☐ Indoor ☒ Outdoor			75% Load 94.2 %				
Altitude Less than 1000 meter			100% Load 94.1 %				
Relative Humidity Less than 80 %			Power Factor(p.u)				
Ambient Temp. 40 deg. C (Max.)			50% Load 0.742				
Duty Type Continuous (S1)			75% Load 0.819				
Service Factor 1.00			100% Load 0.850				
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load 1780 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6314C3 / 6213C3	Full Load 30.1 kg·m				
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 180 %				
External Thrust Not applicable			Breakdown** 230 %				
Coupling Method ☒ Direct ☐ V-Belt			Moment of Inertia (J)				
Shaft Extension ☒ Single ☐ Double			Load(Max.) 27.600 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 0.950 kg·m²				
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
Location Refer to Outline Drawing			82 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)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		kg		
			B5	0	0 kg		
			V1	GJ25PP02	545 kg		
			B3/B5	0	0 kg		
			Main T-Box Ass'y 3M-036961				
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.

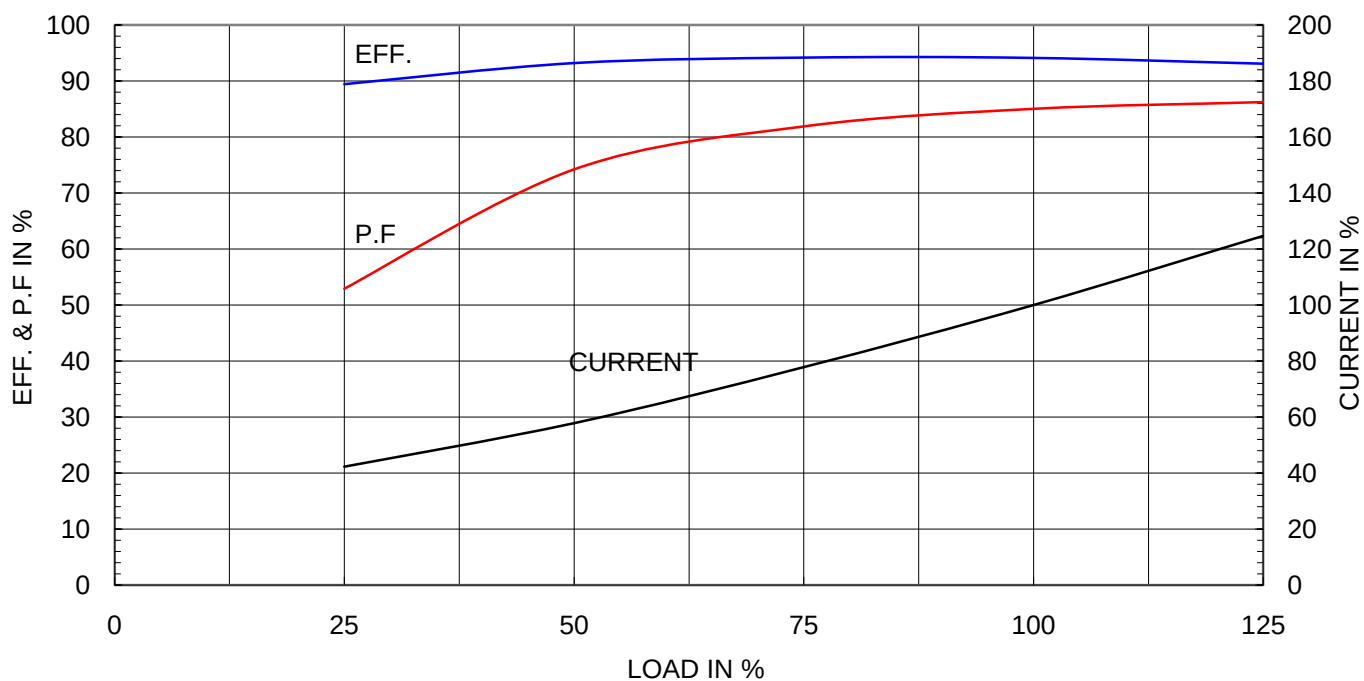
Type	:	GHB225M
Full Load Torque	:	30.1 Kg.m
Motor moment of Inertia (J)	:	0.950 Kg.m ²
Load moment of Inertia (J)	:	27.600 Kg.m ²

55 kW		4 P		60 Hz	
Speed at Full Load :				1780 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	90.2A	104.5A	180.5A		

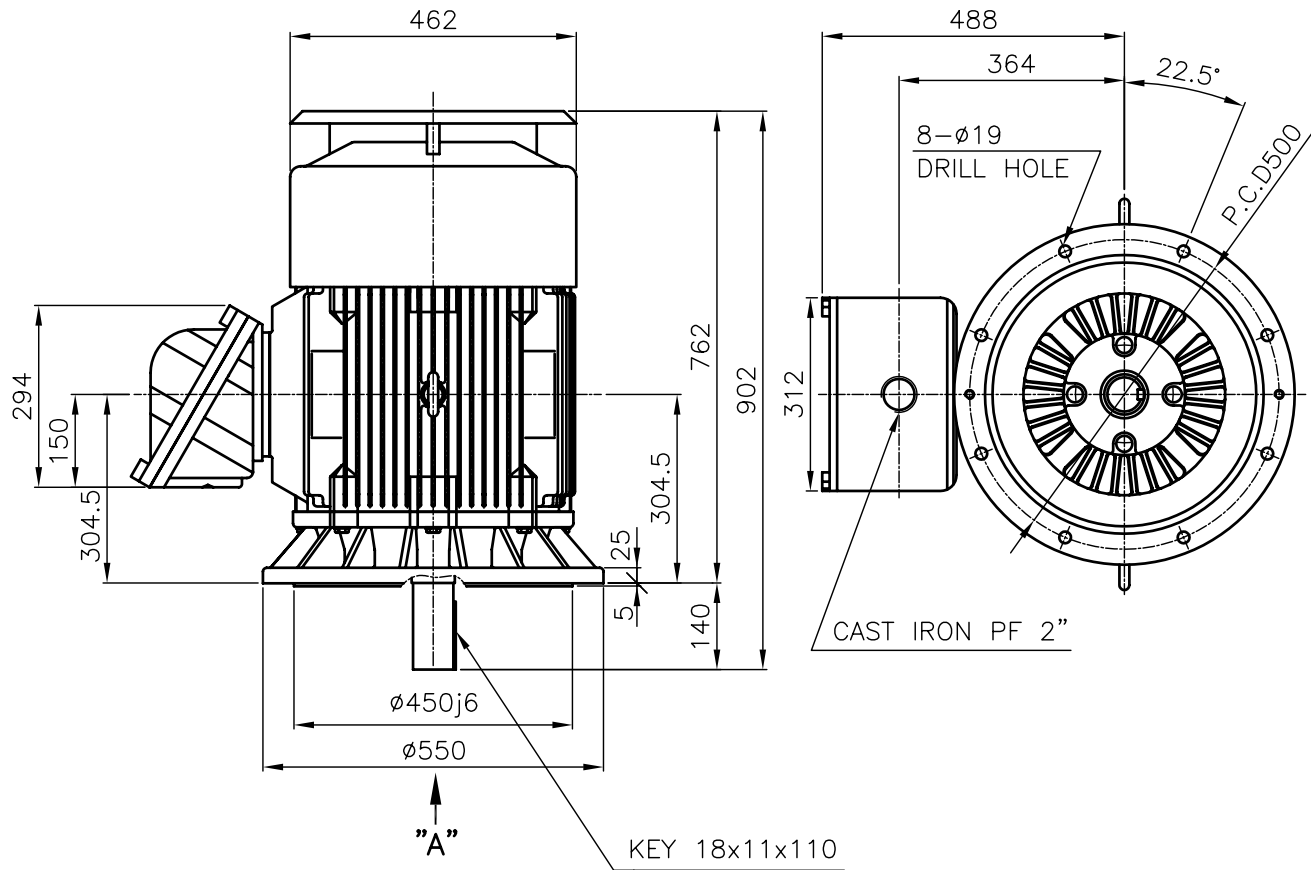
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



1		2		3		4	
 HYUNDAI HEAVY INDUSTRIES CO., LTD.		TEFC THREE PHASE INDUCTION MOTOR			TYPE	GHB	
						CAST IRON FRAME	

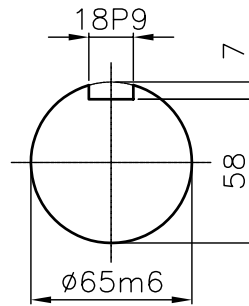


NOTE

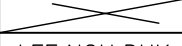
1.TOLERANCE :

RABBET DIAMETER	ø450j6	±0.020
SHAFT DIAMETER	ø65m6	+0.030 +0.011
KEYWAY WIDTH	18P9	-0.018 -0.061
KEYWAY DEPTH	7	+0.2 0

2.Ex d IIB T4 : (EXPLOSION CONSTRUCTION & IGNITION GROU)



VIEW "Q"
SCALE 4/1

				TEFC STANDARD		
APPD BY	KIM J.H.	UNIT	MM	SUBJECT	KS Fr.225 d2G4	CAD PROJ \ FILE
CHKD BY	KIM O.J.	SCALE	1/13		MMSTDMTR/GJ25PP02	
CHKD BY		PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND BY	LEE NOH DUK	DATE	2007.06.18		THREE-PHASE INDUCTION MOTOR	
				REF. NO	L3-SERIES	Sheet No. of
				DWG NO	GJ25PP02	Revision No. 0

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