

AC INDUCTION MOTOR DATA SHEET

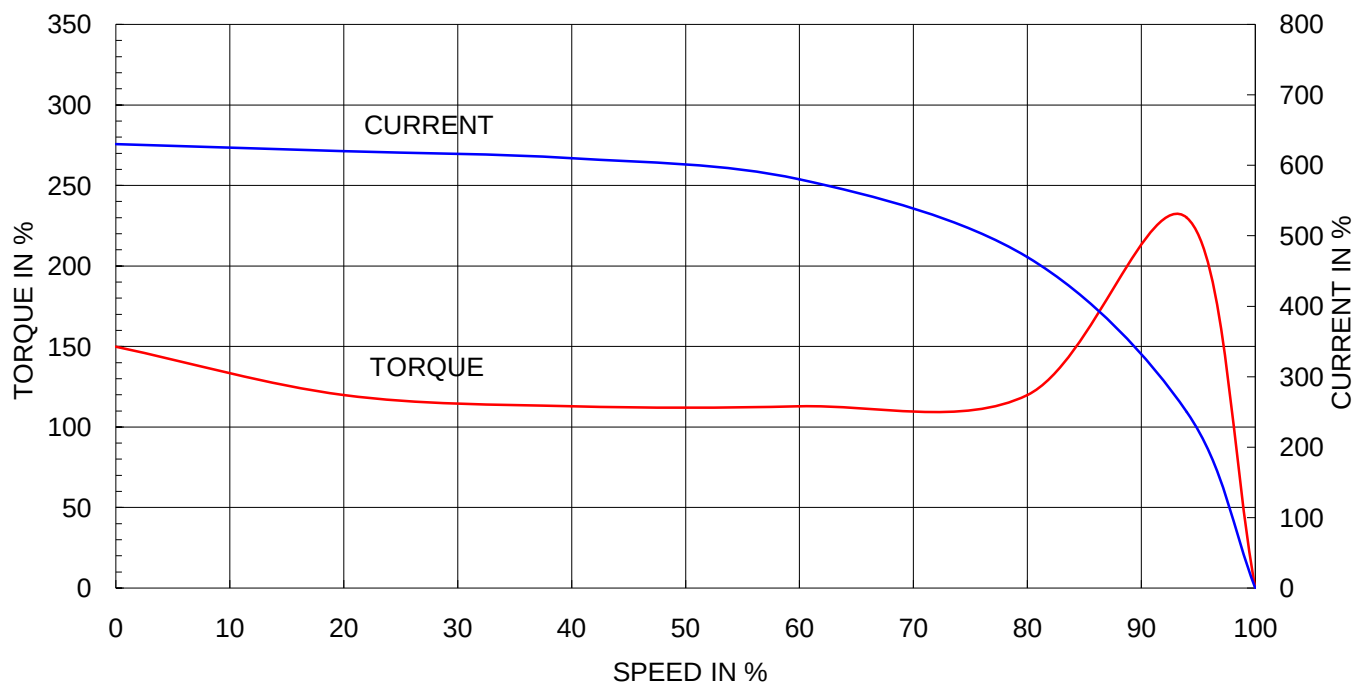
Model No.or RFQ No.		Item No.		Rev. No. [0]	
Project Name		Project No.		Quantity sets	
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	280LL		Rated Output	200 kW 268 HP	
Type	HS-200/2		Number of Poles	2	
Enclosure(Protection)	Explosion Proof (IP55)		Rotor Type	Squirrel Cage	
Method of Cooling	IC411(FC)		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	301.9 A 349.6 A 603.8 A
Insulation Class	☒ F ☐ B ☐ 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 93.8 %		
Motor Location	☐ Indoor ☒ Outdoor		75% Load 94.9 %		
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	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load 3570 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6314C3 / 6314C3	Full Load 54.6 kg·m		
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 150 %		
External Thrust	Not applicable		Breakdown** 230 %		
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)		
Shaft Extension	☒ Single ☐ Double		Load(Max.) 19.550 kg·m²		
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 3.595 kg·m²		
	Aux.	☐ Yes ☒ 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		
Type of Ex-Protection	Ex d II T4		Cold 3 times		
Applicable Standard	KS,IEC		Hot 2 times		
ACCESSORIES			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
			SUBMITTAL DRAWING		
			Outline Dimension Drawing \ Motor Weight(Approx.)		
			B3		kg
			B5	0	kg
			V1	GJ8XPC01	1440 kg
			B3/B5	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.

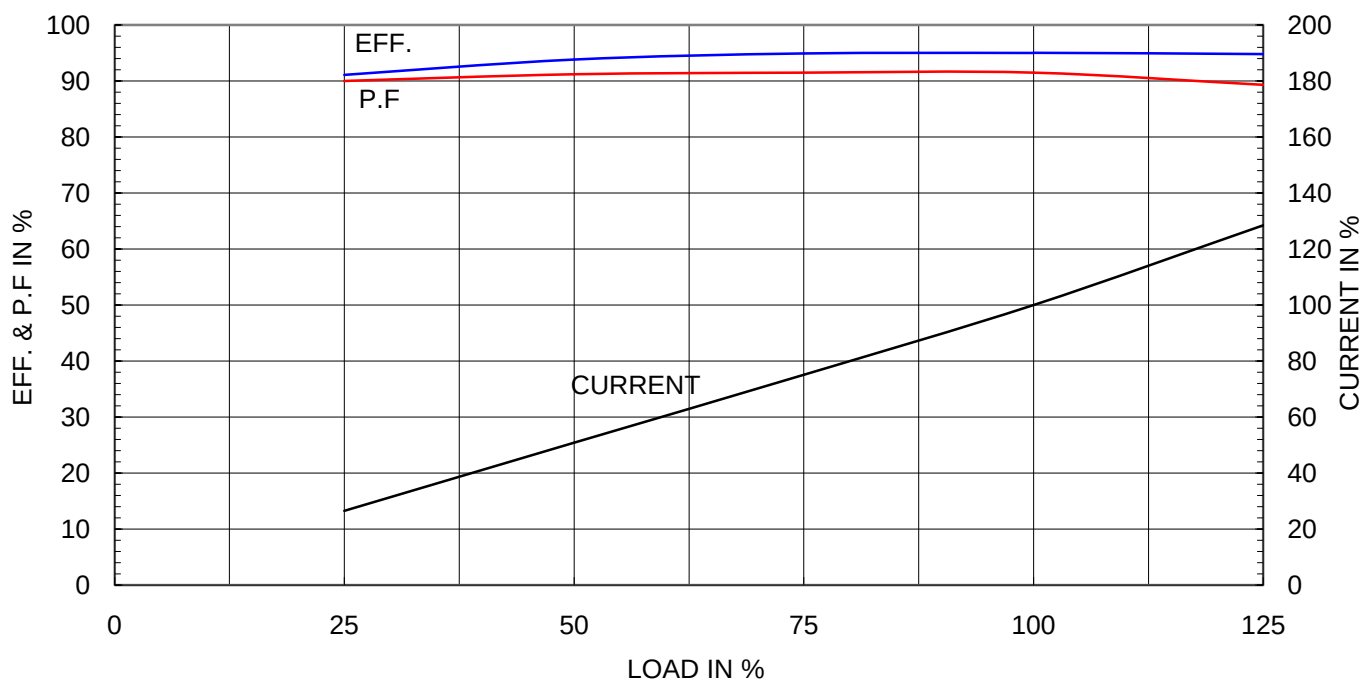
Type	:	GHB280X
Full Load Torque	:	54.6 Kg.m
Motor moment of Inertia (J)	:	3.595 Kg.m ²
Load moment of Inertia (J)	:	19.550 Kg.m ²

200 kW		2 P		60 Hz	
Speed at Full Load :				3570 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	301.9A	349.6A	603.8A		

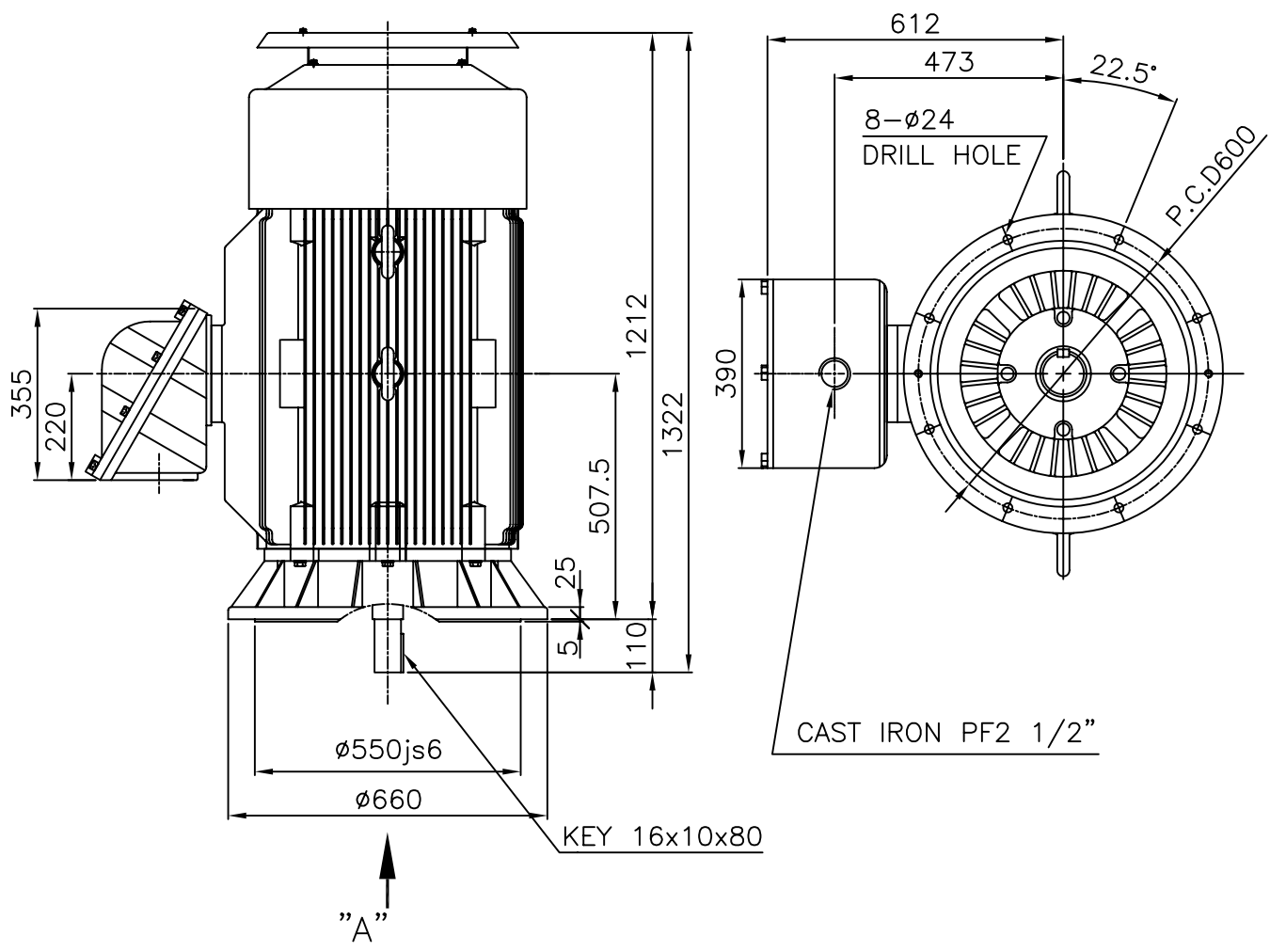
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



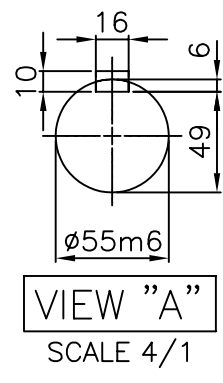
	TEFC THREE PHASE INDUCTION MOTOR	TYPE	GHB280X CAST IRON FRAME
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NOTE

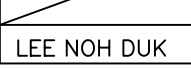
1.TOLERANCE :

RABBET DIAMETER	ø550 ±0.022
SHAFT DIAMETER	ø55 +0.030 +0.011
KEYWAY WIDTH	16 -0.018 -0.061
KEYWAY DEPTH	6 +0.2 0
KEY WIDTH	16 0 -0.043
KEY HEIGHT	10 0 -0.090

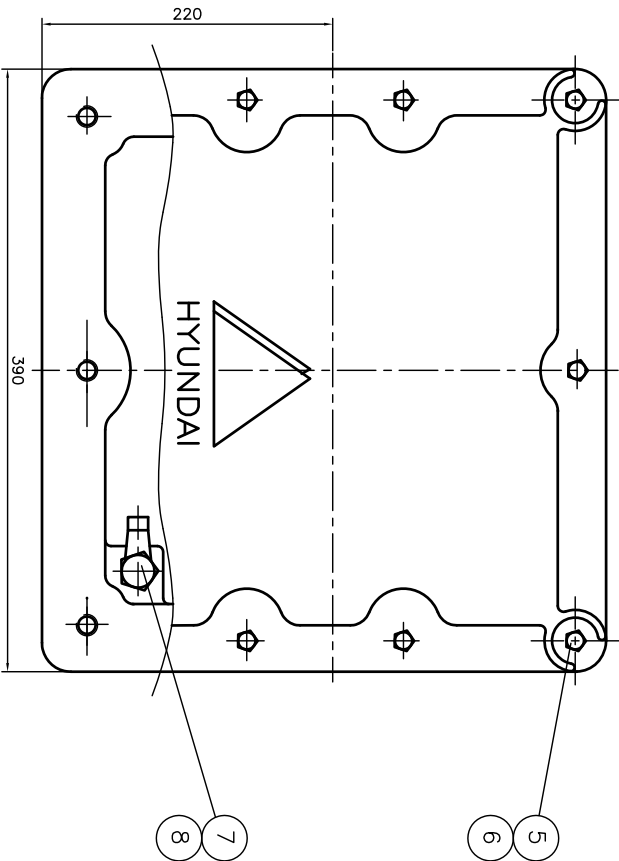
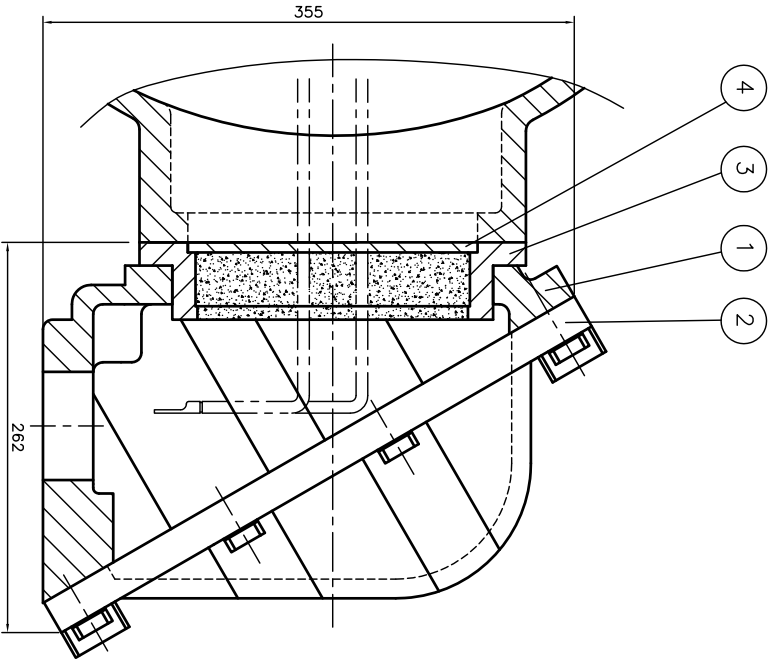


2.Ex d IIB T4 : (EXPLOSION CONSTRUCTION & IGNITION GROUP)

TEFC STANDARD

APPD BY	Y.S.KIM	UNIT	MM	SUBJECT	KS Fr.280LL d2G4	CAD PROJ \ FILE
CHKD BY		SCALE	1/15	TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR	MMSTDMTR/GJ8XPC01
CHKD BY		PROJEC'N	3rd Angle			
DSND BY	LEE NOH DUK	DATE	2008.07.14			
				REF. NO	L3-SERIES	Sheet No. of
INDUSTRIAL & POWER SYSTEMS				DWG NO	GJ8XPC01	Revision No. 0

G
F
E
D
C
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A



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

1	HEX. BOLT	BRONZE	M10				8
7	1 EARTH TERMINAL LUG	STD					7
6	10 SPRING WASHER	SUP-3					6
5	10 HEX. BOLT	S45C	M12				5
4	1 GUIDE PLATE	E.C.P					4
3	1 ADAPTER	FC25					3
2	1 TERMINAL BOX COVER	FC25					2
1	1 TERMINAL BOX BODY	FC25					1
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APRD BY	UNIT	MM					
Q.P. CHK	SCALE	NONE					
CHND BY	PROJEC'T	3-24(3rd Angle)					
DSND BY	KIM JONG SEON	DATE	98.10.30				
REF. NO							
DWG NO							
3M-036962							
Sheet No. of							
Revision No.							



TERMINAL BOX ASS'Y