

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-200/4		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	312.1 A 361.4 A 624.3 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 94.5 %				
Motor Location	☐ Indoor ☒ 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	☐ B3 ☐ B5 ☒ V1 ☐ 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	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.) 139.850 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 5.488 kg·m²				
	Aux.	☐ Yes ☒ 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		consecutive starts 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 kg			
			V1	GJ8XPP02 1470 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

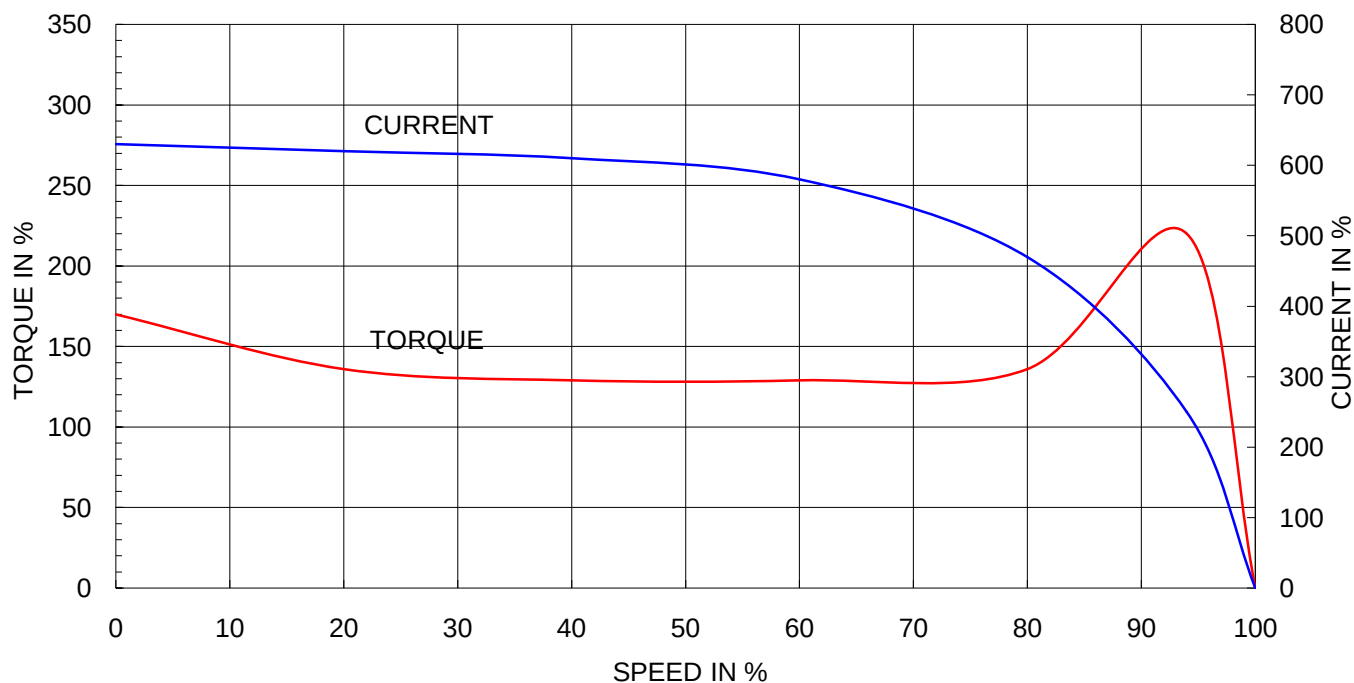
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

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)

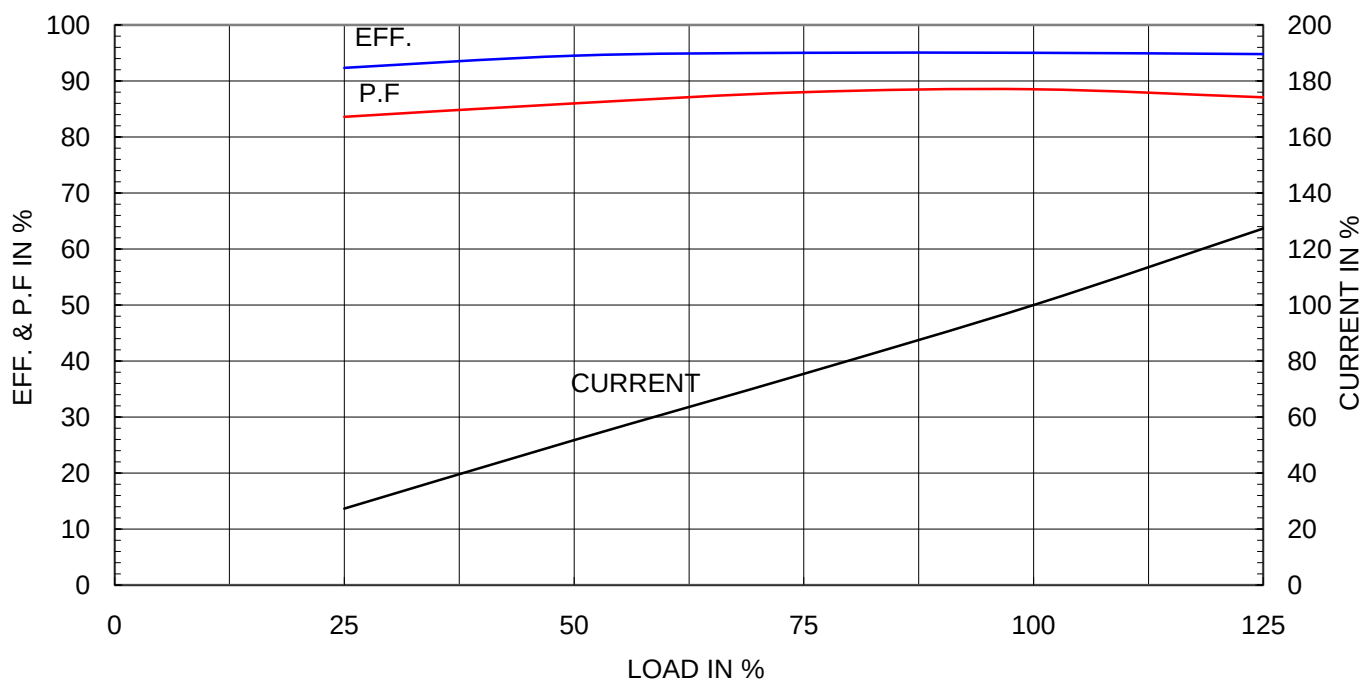
Type	:	GHB280X
Full Load Torque	:	109.1 Kg.m
Motor moment of Inertia (J)	:	5.488 Kg.m ²
Load moment of Inertia (J)	:	139.850 Kg.m ²

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		

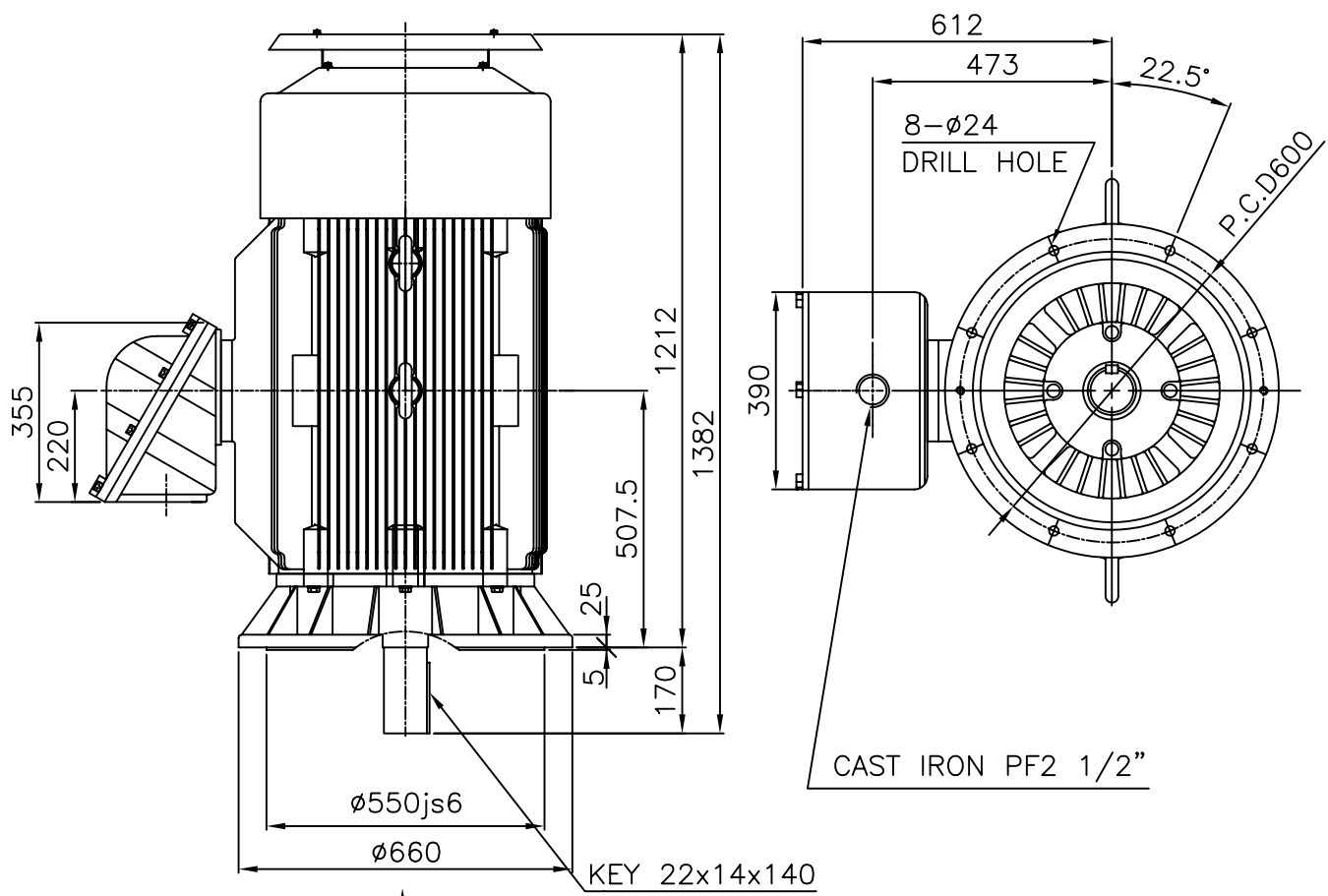
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



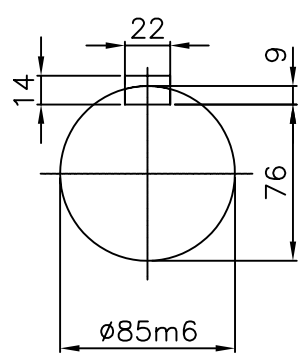
	TEFC THREE PHASE INDUCTION MOTOR	TYPE	GHB280X CAST IRON FRAME
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NOTE

1.TOLERANCE :

RABBET DIAMETER	ø550 ±0.022
SHAFT DIAMETER	ø85 $\begin{smallmatrix} +0.035 \\ +0.013 \end{smallmatrix}$
KEYWAY WIDTH	22 $\begin{smallmatrix} -0.022 \\ -0.074 \end{smallmatrix}$
KEYWAY DEPTH	9 $\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEY WIDTH	22 $\begin{smallmatrix} 0 \\ -0.052 \end{smallmatrix}$
KEY HEIGHT	14 $\begin{smallmatrix} 0 \\ -0.110 \end{smallmatrix}$



VIEW "A"
SCALE 4/1

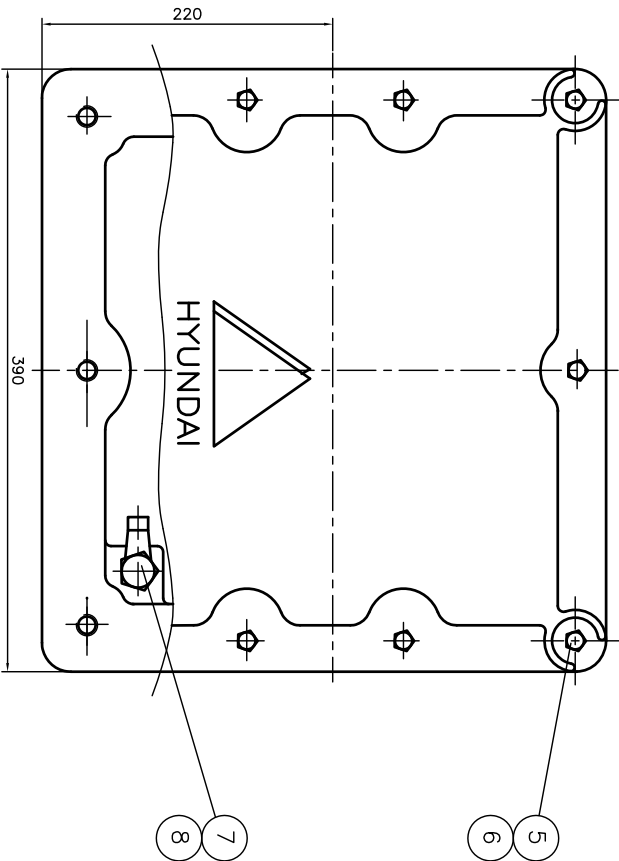
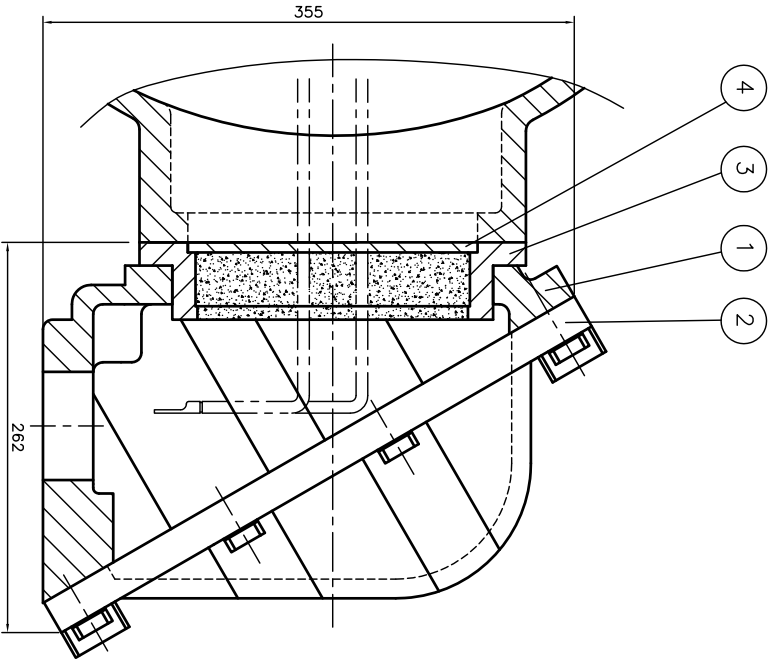
2.Ex d IIB T4 : (EXPLOSION CONSTRUCTION & IGNITION GROUP)

TEFC STANDARD
CAD PROJ \ FILE
MMSTDMTR/GJ8XPP02

APPD BY	Y.S.KIM	UNIT	MM
CHKD BY		SCALE	1/15
CHKD BY		PROJEC'N	3rd Angle
DSND BY	LEE NOH DUK	DATE	2008.07.14

SUBJECT	KS Fr.280LL d2G4	TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR
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REF. NO	L3-SERIES	Sheet No.	of
DWG NO	GJ8XPP02	Revision No.	0



REV	DATE	CONTENTS	REQD BY	CHKD BY	APPD 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.
APPD 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