

Model No.or RFQ No.		Item No.		Rev. No.	[ 0 ]	
Project Name		Project No.		Quantity	sets	
GENERAL SPECIFICATION			PERFORMANCE DATA			
Frame Size	250M		Rated Output	75 kW	100 HP	
Type	HS-75/6		Number of Poles	6		
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	123.0 A 142.5 A 246.1 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
Motor Location	<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> 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	0.768		
Duty Type	Continuous ( S1 )		75% Load	0.831		
Service Factor	1.00		100% Load	0.850		
Mounting	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input checked="" type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load	1185 r.p.m		
Bearing	Type	Anti-Friction				
	DE/N-DE	6316C3 / 6313C3				
	Lubricant	Grease(Gadus S2 V 100 2)				
External Thrust	Not applicable					
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.)	126.775 kg·m <sup>2</sup>		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor	2.758 kg·m <sup>2</sup>	
	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				
Application	Vibration 2.2 mm/sec (r.m.s)					
Area classification	Hazardous		Permissible number of consecutive starts	Cold 3 times Hot 2 times		
Type of Ex-Protection	Ex d II T4		Paint	Munsell No.	4.OPB5.4/5.5(VL-451)	
Applicable Standard	KS,IEC		SUBMITTAL DRAWING			
ACCESSORIES			Outline Dimension Drawing \ Motor Weight(Approx.)			
			B3		kg	
			B5	0	0 kg	
			V1	GJ50PP02	870 kg	
			B3/B5	0	0 kg	
			Main T-Box Ass'y	3M-036962		
SPARE PARTS			REMARK High Efficiency			
			Date	DSND	CHKD	
			2010-05-28	R.G. KIM	O.J. KIM	CHKD

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.

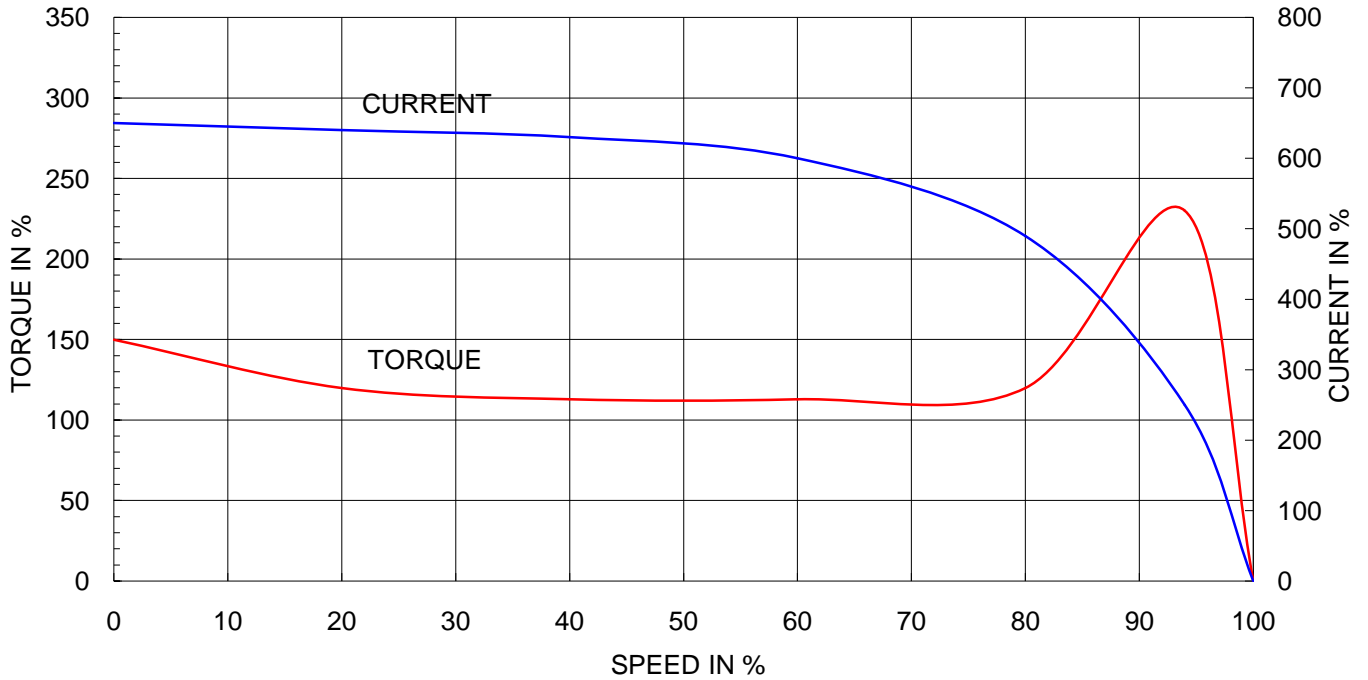
\* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

\*\* 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.

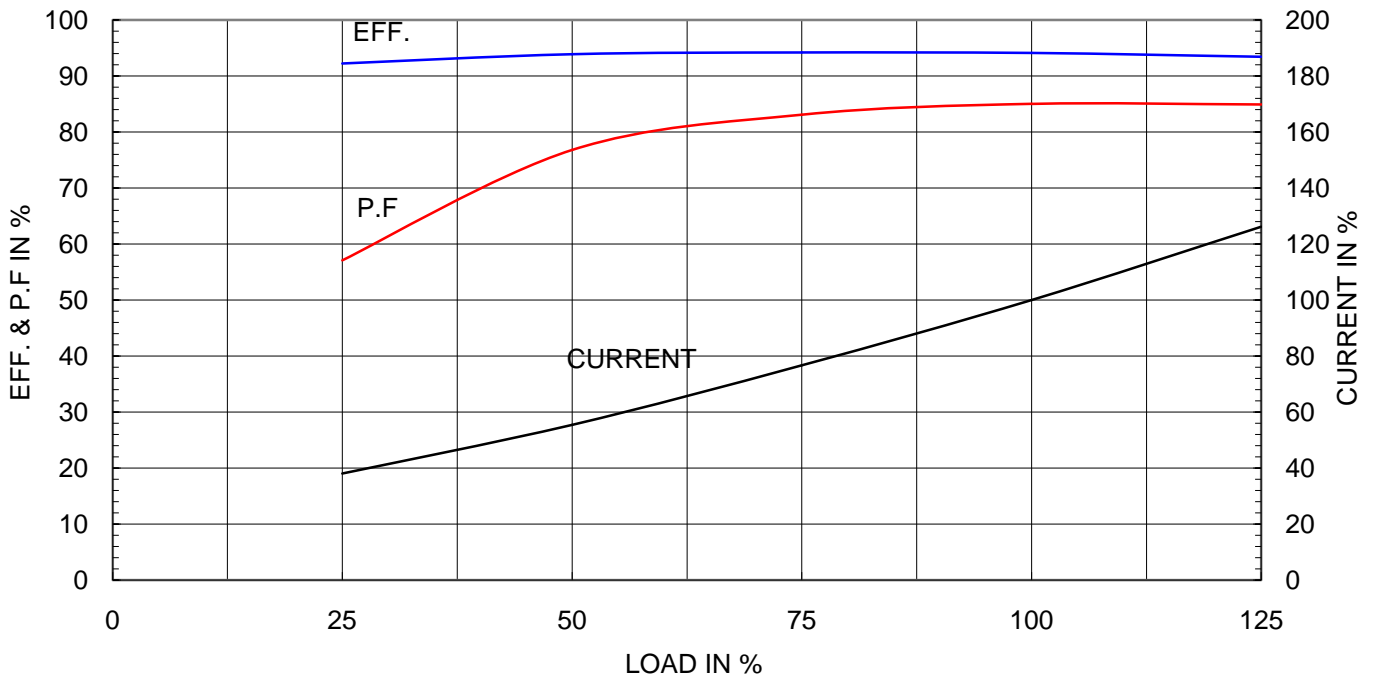
Type	: GHB250M
Full Load Torque	: 61.6 Kg.m
Motor moment of Inertia (J)	: 2.758 Kg.m <sup>2</sup>
Load moment of Inertia (J)	: 126.775 Kg.m <sup>2</sup>

75 kW	6 P	60 Hz	
Speed at Full Load :		1185 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	123.0A	142.5A	246.1A

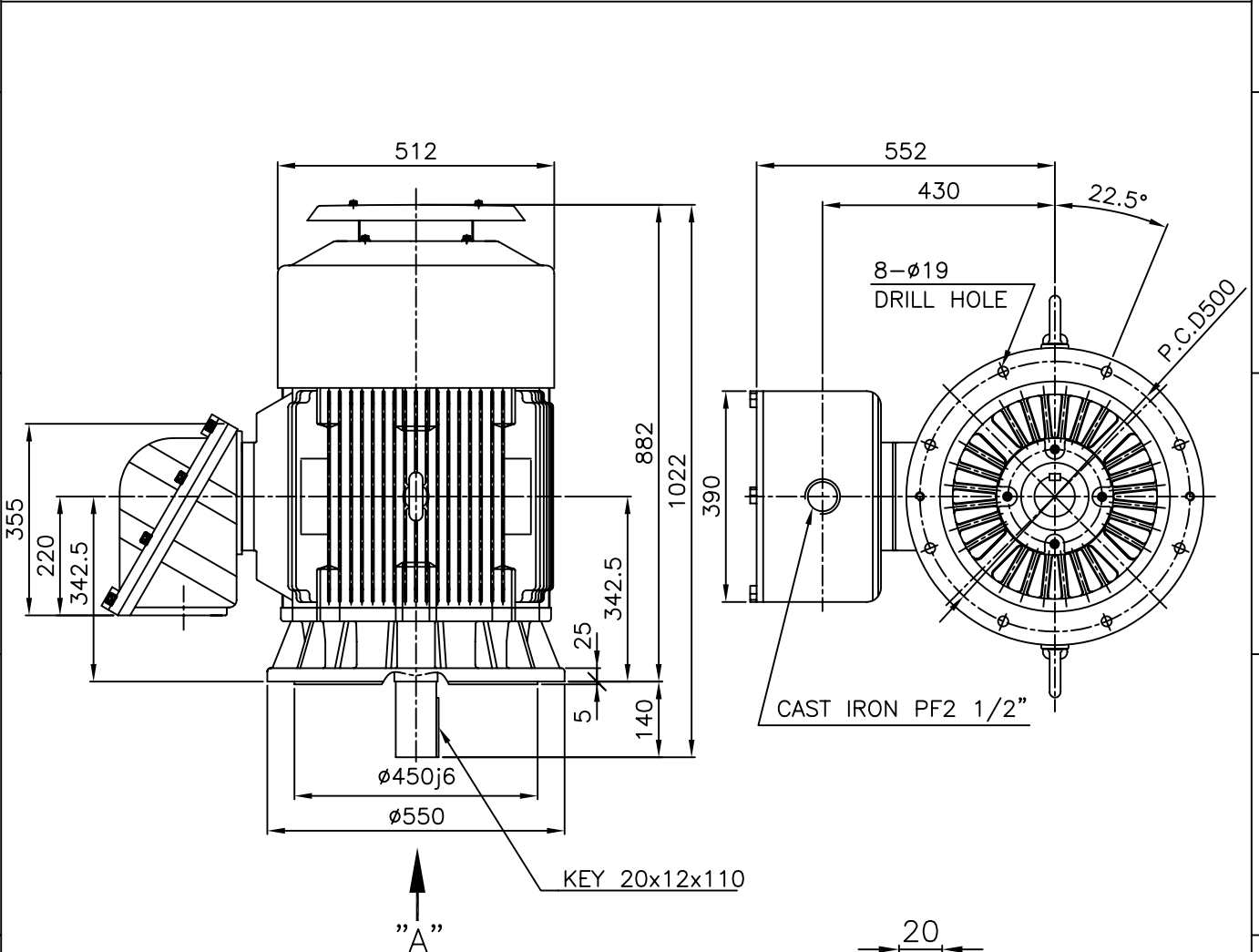
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



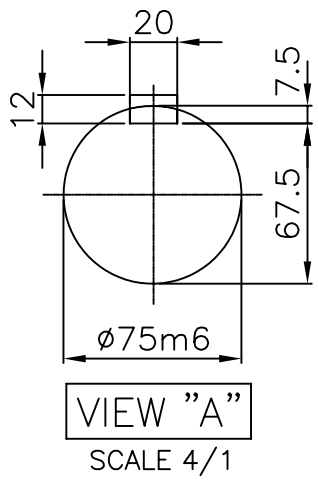
		<h1>TEFC</h1>		<b>TYPE</b>		GHB250M	
		<b>THREE PHASE INDUCTION MOTOR</b>				CAST IRON FRAME	



**NOTE**

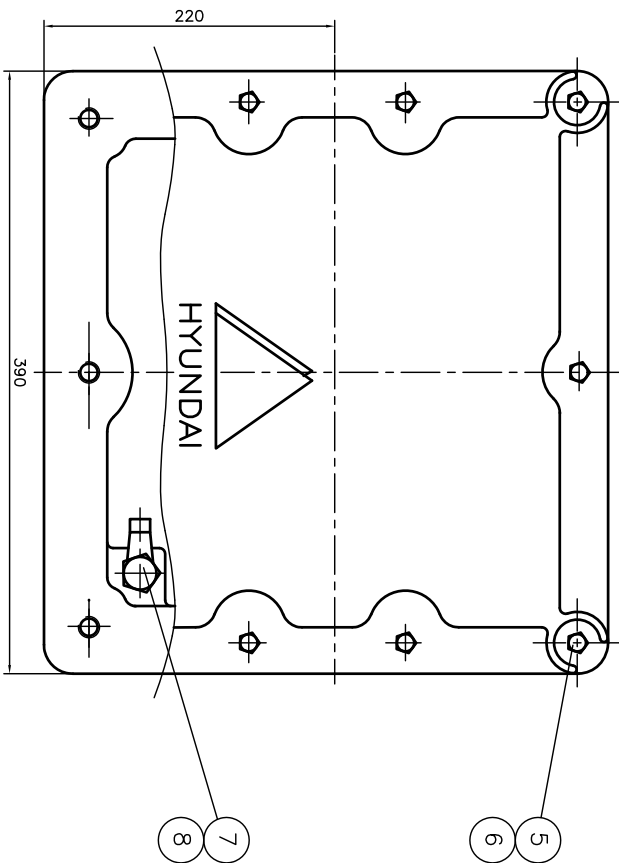
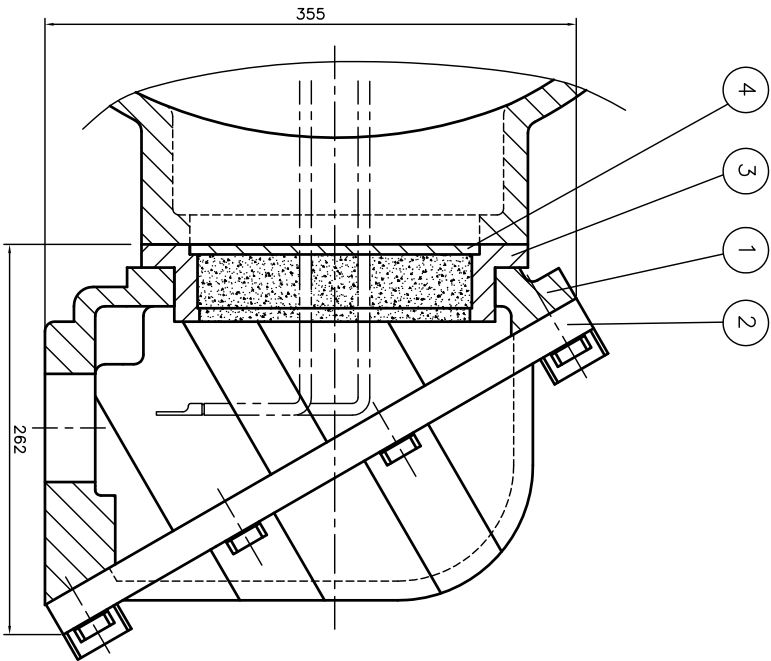
1. TOLERANCE :

RABBET DIAMETER	$\phi 450 \pm 0.020$
SHAFT DIAMETER	$\phi 75 \begin{matrix} +0.030 \\ +0.011 \end{matrix}$
KEYWAY WIDTH	$20 \begin{matrix} -0.022 \\ -0.074 \end{matrix}$
KEYWAY DEPTH	$7.5 \begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	$20 \begin{matrix} 0 \\ -0.052 \end{matrix}$
KEY HEIGHT	$12 \begin{matrix} 0 \\ -0.110 \end{matrix}$



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

APPD BY Y.S.KIM				UNIT MM		SUBJECT KS Fr.250 TEFC		TEFC STANDARD	
CHKD BY				SCALE 1/13		TITLE		CAD PROJ \ FILE	
CHKD BY				PROJEC'N 3rd Angle		OUTLINE THREE-PHASE INDUCTION MOTOR		MMSTDMTR/GJ50PC50	
DSND BY LEE NOH DUK				DATE 2008.07.14				REF. NO L3-SERIES	
				REF. NO		L3-SERIES		Sheet No. of	
				DWG NO		GJ50PP02		Revision No. 0	



QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
1	HEX. BOLT	BRONZE	M10				8
1	EARTH TERMINAL LUG	STD					7
10	SPRING WASHER	SUP-3					6
10	HEX. BOLT	S45C	M12				5
1	GUIDE PLATE	E.C.P					4
1	ADAPTER	FC25					3
1	TERMINAL BOX COVER	FC25					2
1	TERMINAL BOX BODY	FC25					1

APRD BY	UNIT	MM	SUBJECT	H/LAB FR-250,280 (2234)	SCALE	NONE	TITLE	TERMINAL BOX ASS'Y
CHKD BY	SCALE	NONE	PROJECN	3-24(3rd Angle)	DATE	98.10.30	REF. NO.	
DSND BY	KIM JONG SEON	DATE	98.10.30	DWG NO.	3M-036962	Sheet No.	of	Revision No.

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

