



AC INDUCTION MOTOR DATA SHEET

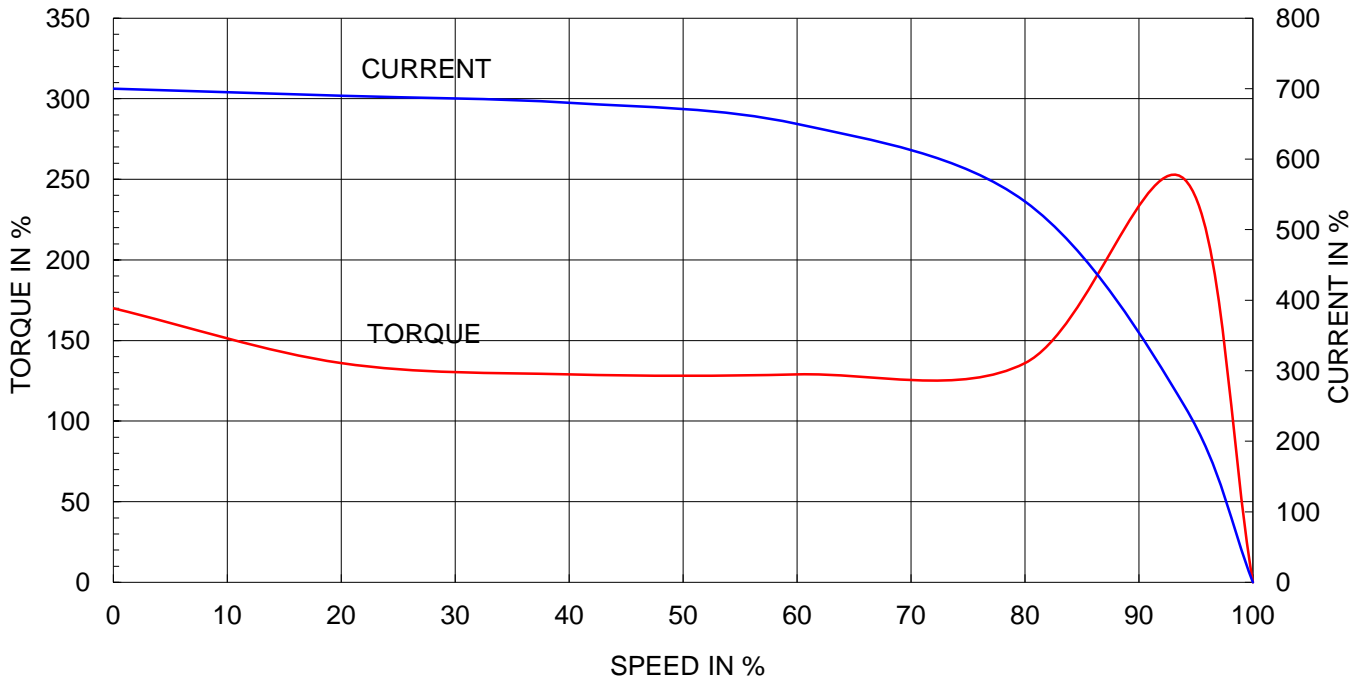
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	280M		Rated Output	110 kW 150 HP			
Type	HS-110/6		Number of Poles	6			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method 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	176.7 A 204.6 A 353.3 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Locked-rotor**	700 % 700 % 700 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F	80 deg. C		50% Load 94.7 % 75% Load 95.1 % 100% Load 95.0 %				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		Power Factor(p.u)				
Altitude	Less than 1000 meter		50% Load 0.797 75% Load 0.849 100% Load 0.860				
Relative Humidity	Less than 80 %		Speed at Full Load				
Ambient Temp.	40 deg. C (Max.)		1185 r.p.m				
Duty Type	Continuous (S1)		Torque				
Service Factor	1.15		Full Load 90.4 kg·m Locked-rotor** 170 % Breakdown** 250 %				
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Moment of Inertia (J)				
Bearing	Type	Anti-Friction		Load(Max.) 204.975 kg·m ² Motor 4.943 kg·m ²			
	DE/N-DE	6318C3 / 6316C3		Sound Pressure Level (No-load & mean value at 1m from motor)			
	Lubricant	Grease(Gadus S2 V 100 2)		80 dB(A)			
External Thrust	Not applicable		Vibration				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		2.2 mm/sec (r.m.s)				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Permissible number of consecutive starts				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Cold 3 times Hot 2 times			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Paint Munsell No. 4.0PB5.4/5.5(VL-451)			
	Location	Refer to Outline Drawing					
Application							
Area classification	Non-Hazardous						
Type of Ex-Protection	Not applicable						
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)						
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	TJ8MAP51	770 kg		
			B5	TJ80BP51	840 kg		
			V1	TJ80PP51	840 kg		
			B3/B5	TJ8MCP51	805 kg		
			Main T-Box Ass'y 3M-016882				
SPARE PARTS			REMARK				
			High Efficiency				
			*, For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
			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.

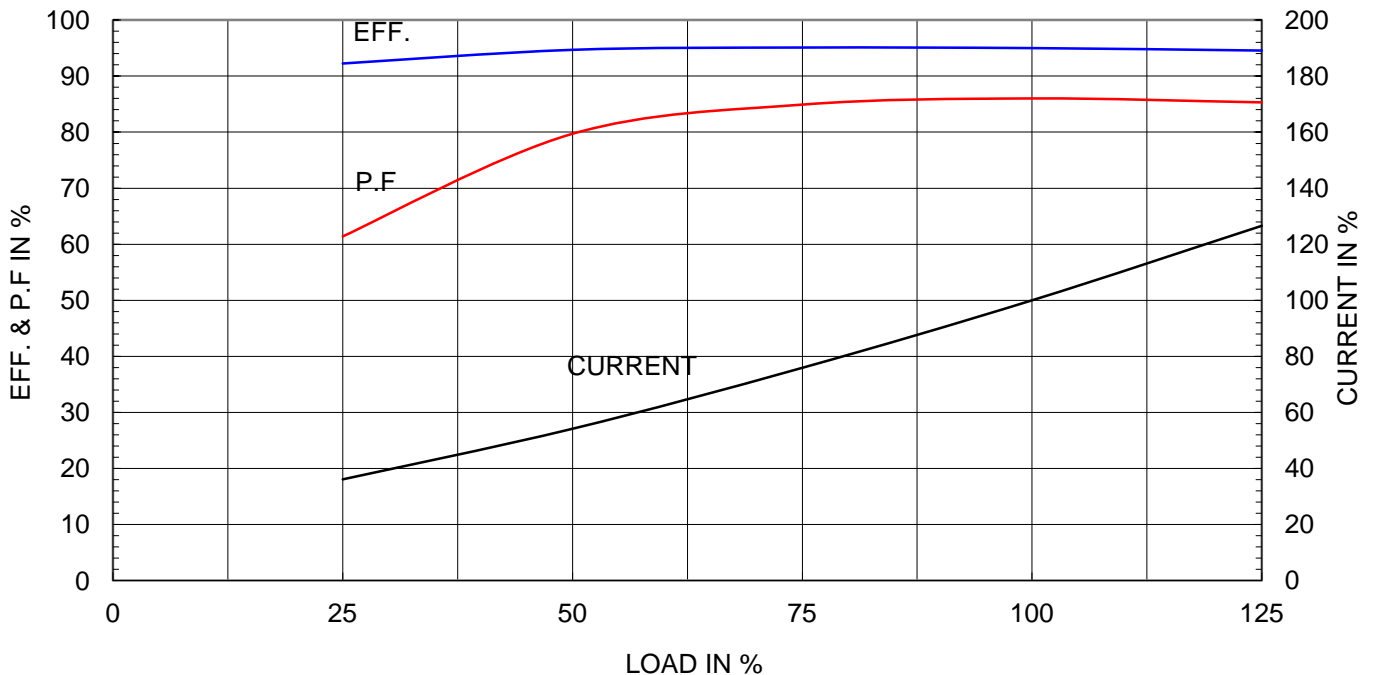
Type	: HS
Full Load Torque	: 90.4 Kg.m
Motor moment of Inertia (J)	: 4.943 Kg.m ²
Load moment of Inertia (J)	: 204.975 Kg.m ²

110 kW	6 P	60 Hz
Speed at Full Load :		1185 RPM
Rated Voltage	440V	380V
Full Load Current	176.7A	204.6A

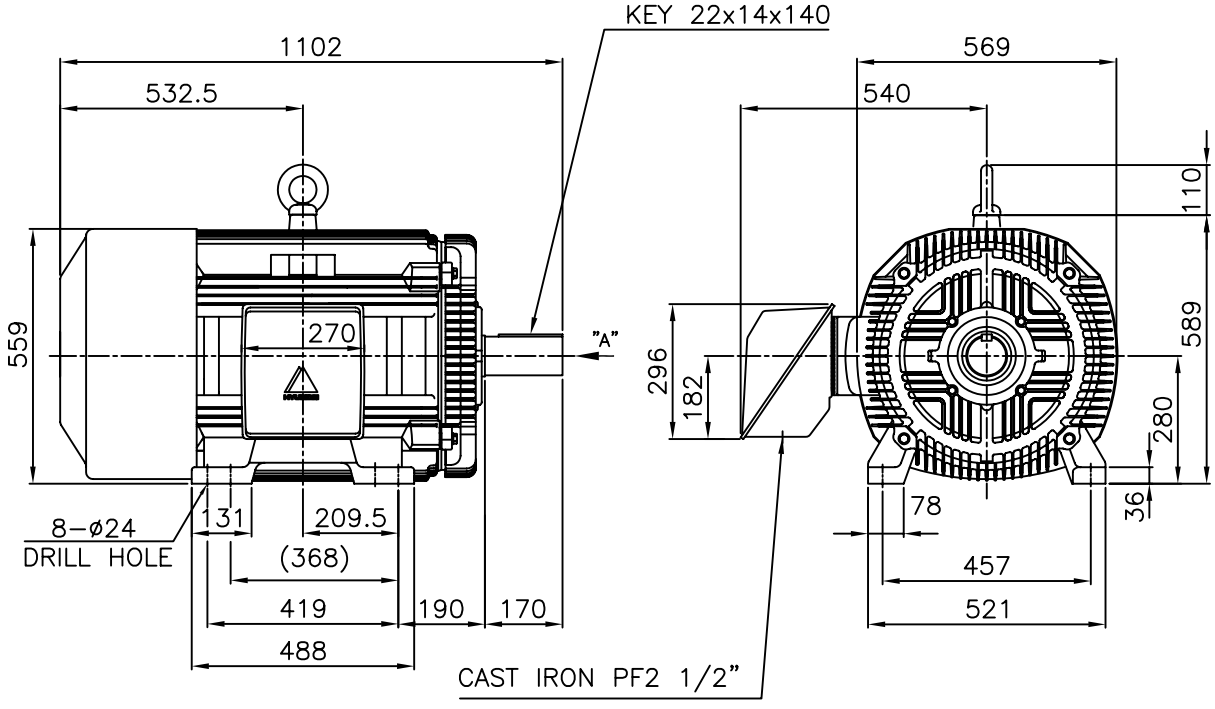
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



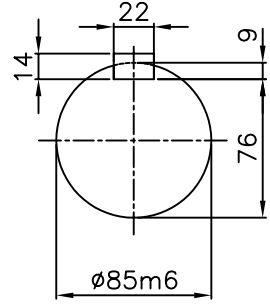
		<h1>TEFC</h1>		TYPE (1) TNB , TDB CAST IRON FRAME
		THREE PHASE INDUCTION MOTOR		



NOTE

1.TOLERANCE :

CENTER HEIGHT	280 $\begin{smallmatrix} 0 \\ -1.0 \end{smallmatrix}$
BASE HOLE	$\phi 24 \begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 85 \begin{smallmatrix} +0.035 \\ +0.013 \end{smallmatrix}$
KEYWAY WIDTH	22 $\begin{smallmatrix} -0.022 \\ -0.074 \end{smallmatrix}$
KEYWAY DEPTH	9 $\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEYWAY WIDTH	22 $\begin{smallmatrix} 0 \\ -0.052 \end{smallmatrix}$
KEYWAY DEPTH	14 $\begin{smallmatrix} 0 \\ -0.110 \end{smallmatrix}$



VIEW "A"
SCALE 4/1

2.The type (1)-"TNB , TDB" is for HHI's standard products and it can be changed for customer's requirements or detail designing.

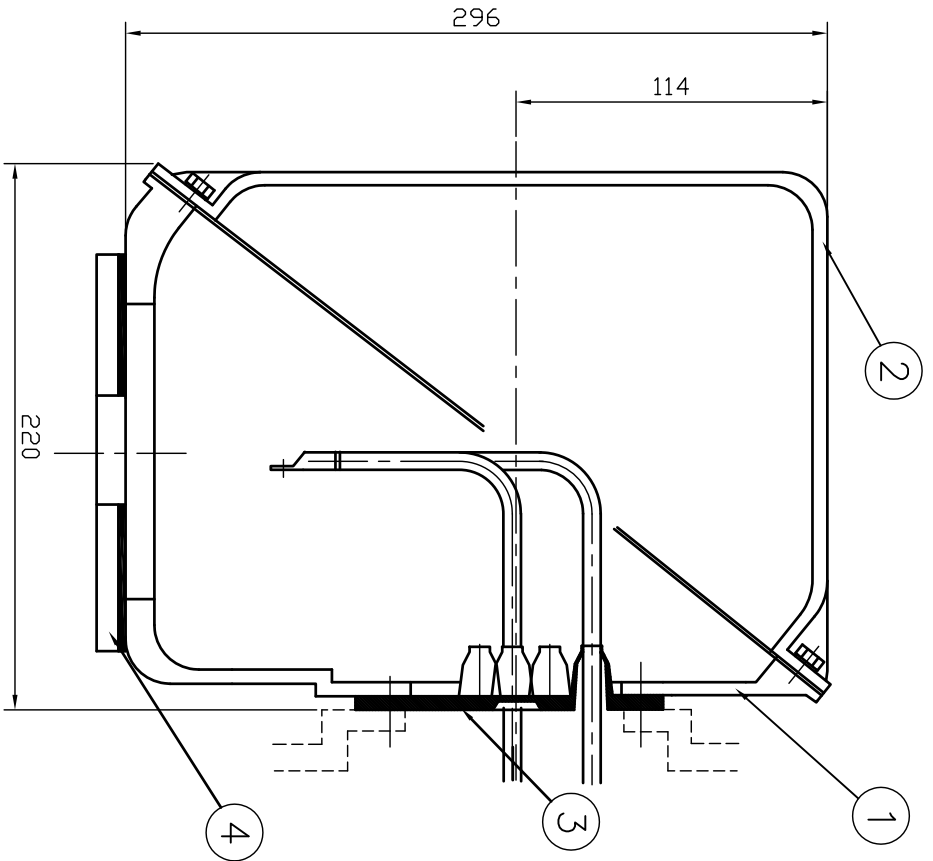
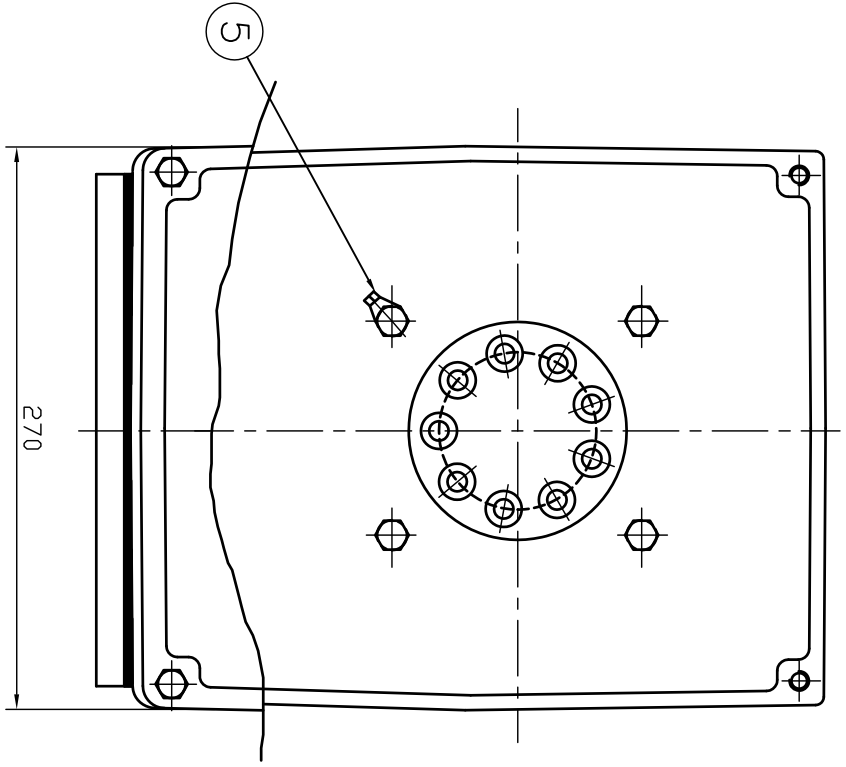
TEFC STANDARD

CAD PROJ \ FILE
MMSTDMTR/TJ8MAP51

APPD BY	KANG K.J.	UNIT	MM
CHKD BY	KIM O.J.	SCALE	1/17
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle
DSND BY	KIM RYANG GYU	DATE	2007.03.23

SUBJECT	KS Fr.280M TEFC	
TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR	

REF. NO	L2-Series	Sheet No. of
DWG NO	TJ8MAP51	Revision No. 0



REV	DATE	CONTENTS	REV'D BY	CHKD BY	Q.P CHK	APPD BY
1						
2						
3						
4						

QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
1	EARTH TERMINAL LUG						5
1	CABLE ENTRY PLATE						4
1	GASKET	NBR					3
1	TERMINAL BOX COVER	CAST IRON					2
1	TERMINAL BOX BODY	CAST IRON					1

APPD BY	권진오	UNIT	MM
Q.P CHK	주영철	SCALE	NONE
CHKD BY	권오철	PROJEC'N	3 레벨(3rd Angle)
DSND BY	김헌태	DATE	92.06.05

REF. NO	DWG NO	REV. NO
	3M-016882	

TITLE	SUBJECT	CAD PROJ	FILE
TERMINAL BOX ASS'Y	HLAG - 250,280Fr.	T-BOX-M	38016882

Sheet No. of	Revision No.

