
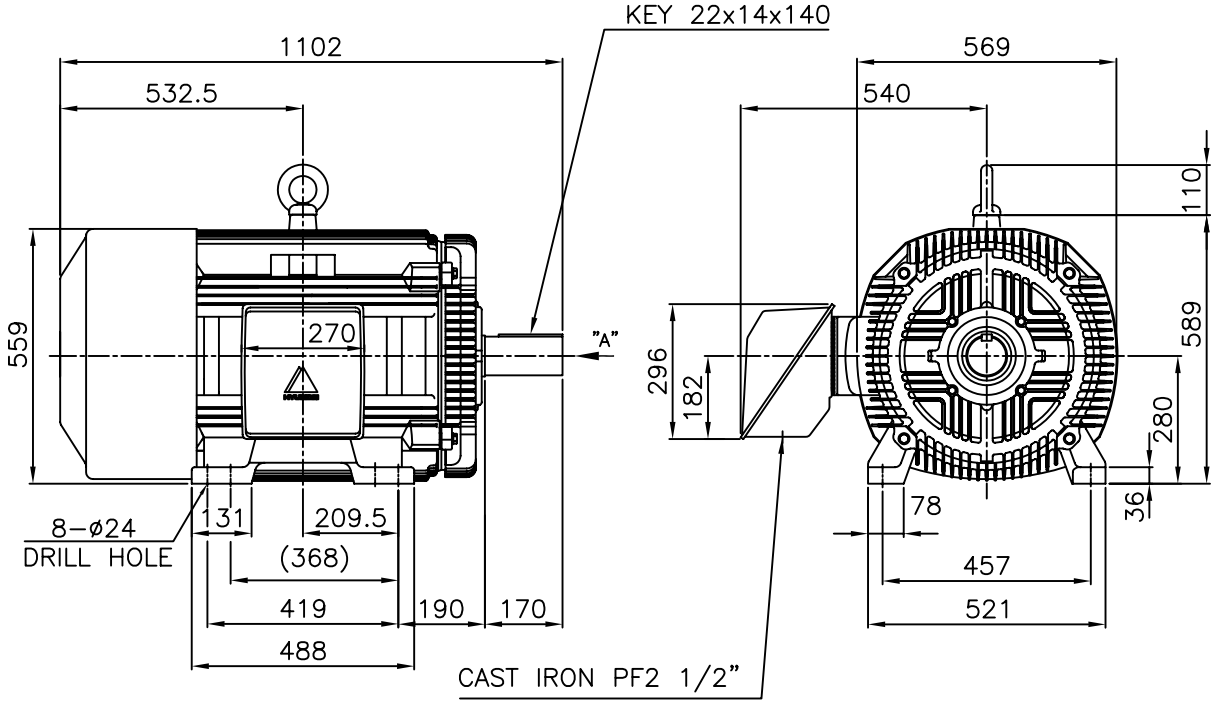
		DATA SHEET of AC INDUCTION MOTOR				100 HP - 8 P TE	
						DESIGN NO : KS C4202-1996	
Model No.or RFQ No.		Item No.		Rev. No.	[0]		
Project Name		Project No.		Quantity :			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame No.	280M		Output	100 HP 75 KW			
Type	TNB		Poles	8 P			
Enclosure(Protection)	Totally Enclosed (IP IP54)		Rotor Type	Squirrel Cage			
Cooling Method	IC411(FC)		Starting Method(*)	<input checked="" type="checkbox"/> D.O.L. <input type="checkbox"/> Y-Δ			
Frequency	60 Hz		Rated Voltage	440 V	380 V	220 V	
Phase	3 φ		Current	Rated Load	129.0 A	149.4 A 258.1 A	
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Start'g-D.O.L	748.5 A	866.7 A 1,497.0 A	
Temp. Rise at full load (by resistance method)	at 1.0 S.F 105 °C		Efficiency	50% Load 92.0 %			
Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load 93.0 %			
Altitude	Less than 1000 meter			100% Load 93.0 %			
Humidity	Less than 80 %		Power Factor	50% Load 73.0 %			
Ambient Temp.	40 °C (Max.)			75% Load 78.0 %			
Duty	CONT.(S1)			100% Load 82.0 %			
Service Factor	1.00		Speed at Rated Load	880 RPM / SLIP 2.22 %			
Electric Design	NEMA Design B		Torque (D.O.L)	Rated 83.0 Kg.m 100 %			
Construction	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/>			Starting 103.8 Kg.m 125 %			
Bearing	Type	Anti-friction		Break down 166.0 Kg.m 200 %			
	DE/ODE	6318C3 \ 6316C3		Allowable Load GD ² referred to motor shaft			
	Lubricant	GREASE(ALVANIA#2)		520.900 Kg.m ²			
External Thrust	Not applicable		Motor GD ²	13.080 Kg.m ²			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Noise Level (dB(A))	80 dB(A) at 1m from motor(No-load)			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Vibration(Velocity)	3.8 mm/sec.(peak)			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Starting Duty	Cold 2 times \ Hot 1 time		
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Paint	Munsell No. 4.0PB5.4/5.5(VL-451)		
	Location	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right		(Viewed from Drive End)			
Application			SUBMITTAL DRAWING				
Area Classification	Not applicable		Outline Dimension Drawing \ Motor Weight(Approx.)	<input type="checkbox"/> B3 TJ8MAP51 790 Kg			
Applicable Standard	KS			<input type="checkbox"/> B5 TJ80BP51 830 Kg			
Inspection and Performance Test	HHI Stand. Maker Test Report			<input type="checkbox"/> V1 TJ80PP51 830 Kg			
ACCESSORIES(OPTION ITEM)			Main T-Box Ass'y	3M-016882			
			REMARK				
SPARE PARTS							
Note: Others not mentioned in this specification shall be in accordance with HHI standard. Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.			Date	DSND	CHKD	CHKD	APPD
			2004.01.27	KIM R.G.		KIM O.J.	KANG K.G.

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)

본 도면은 현대중공업(주) 재산이므로
허가없이 복사할 수 없음 (취급유의)

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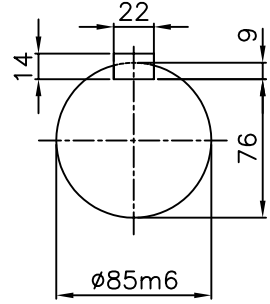
		<h1>TEFC</h1>		TYPE (1) TNB , TDB CAST IRON FRAME
		THREE PHASE INDUCTION MOTOR		



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



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

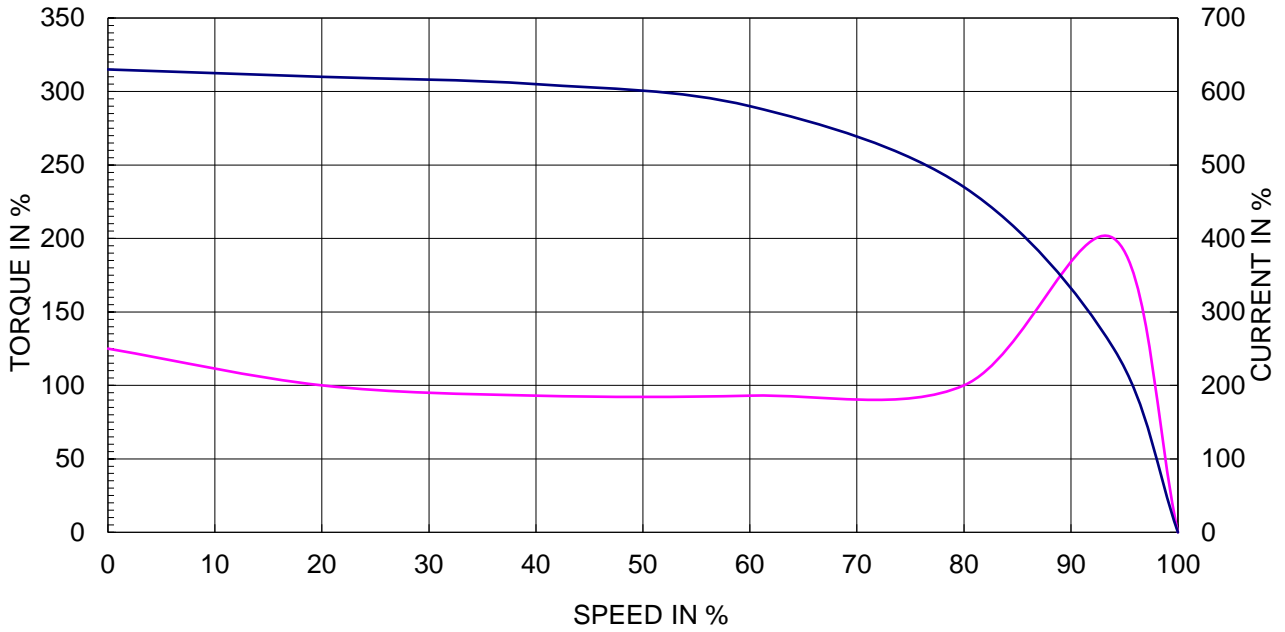
CURVE NO.

P-TNBJ8M08075

TYPE :		
RATED TORQUE :	83.0	Kg.m
GD2 OF MOTOR :	13.1	Kg.m ²
(ALLOWABLE) GD2 OF LOA	520.9	Kg.m ²

	75 kW	8 P	60 Hz
RATED SPEED :	880 RPM		
VOLTAGE	440V	380 V	220V
RATED CURRENT	129.0A	149.4 A	258.1A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

