
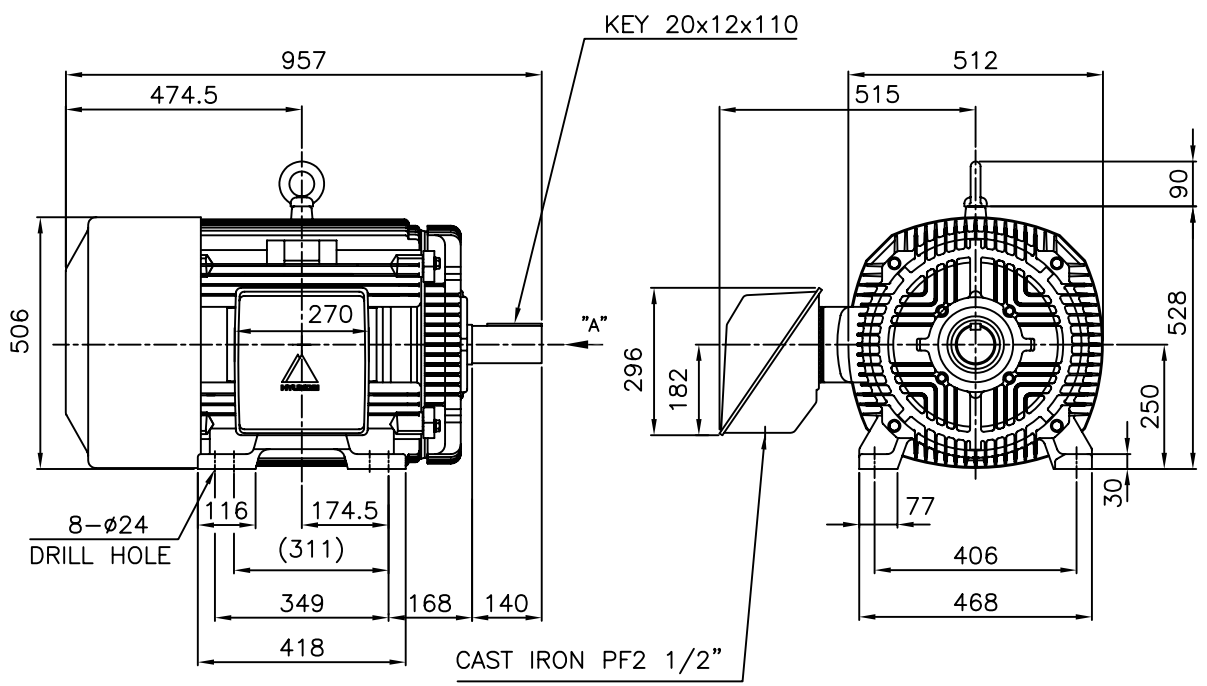
		DATA SHEET of AC INDUCTION MOTOR				120 HP - 4 P TE	
						DESIGN NO : KS C4202-1996	
Model No.or RFQ No.		Item No.		Rev. No.	[0]		
Project Name		Project No.		Quantity :			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame No.	250M		Output	120 HP 90 KW			
Type	TNB		Poles	4 P			
Enclosure(Protection)	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	144.8 A	167.6 A 289.5 A	
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Start'g-D.O.L	941.0 A	1,089.6 A 1,882.0 A	
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F			105 °C				
Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		50% Load 91.8 %				
Altitude	Less than 1000 meter		75% Load 92.7 %				
Humidity	Less than 80 %		100% Load 92.7 %				
Ambient Temp.	40 °C (Max.)		Power Factor				
Duty	CONT.(S1)		50% Load 81.0 %				
Service Factor	1.00		75% Load 86.0 %				
Electric Design	NEMA Design B		100% Load 88.0 %				
Construction	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/>		Speed at Rated Load 1765 RPM / SLIP 1.94 %				
Bearing	Type	Anti-friction		Torque (D.O.L)			
	DE/ODE	6316C3 \ 6313C3		Rated	49.7 Kg.m	100 %	
	Lubricant	GREASE(ALVANIA#2)		Starting	79.5 Kg.m	160 %	
External Thrust	Not applicable		Break down	104.3 Kg.m	210 %		
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Allowable Load GD ² referred to motor shaft				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		221.000 Kg.m ²				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor GD ² 6.940 Kg.m ²			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Noise Level (dB(A)) 82 dB(A) at 1m from motor(No-load)			
	Location	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right		Vibration(Velocity) 3.8 mm/sec.(peak)			
(Viewed from Drive End)			Starting Duty Cold 2 times \ Hot 1 time				
Application			Paint Munsell No. 4.0PB5.4/5.5(VL-451)				
Area Classification			SUBMITTAL DRAWING				
Applicable Standard			Outline Dimension Drawing \ Motor Weight(Approx.)				
Inspection and Performance Test			<input type="checkbox"/> B3 TJ5MAP51 525 Kg				
HHI Stand. Maker Test Report			<input type="checkbox"/> B5 TJ50BP51 550 Kg				
ACCESSORIES(OPTION ITEM)			<input type="checkbox"/> V1 TJ50PP51 550 Kg				
			Main T-Box Ass'y 3M-016882				
SPARE PARTS			REMARK				
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.

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

THIS DRAWING IS PROPRIETARY TO HHI. NO PART OF THIS DRAWING
MAYBE REPRODUCED WITHOUT THE PERMISSION OF HHI.

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

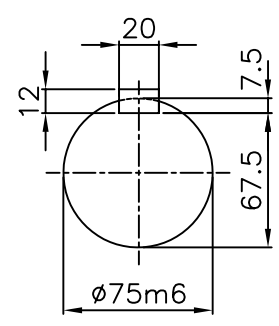


NOTE

1. TOLERANCE :

CENTER HEIGHT	250	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HILE	$\phi 24$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
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. The type (1) - "TNB , TDB" is for HHI's standard products and it can be changed for customer's requirements or detail designing.



VIEW "A"
SCALE 4/1

TEFC STANDARD

CAD PROJ \ FILE
MMSTDMTR/TJ5MAP51

APPD BY	KANG K.J.	UNIT	MM
CHKD BY	KIM O.J.	SCALE	1/15
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle
DSND BY	KIM RYANG GYU	DATE	2007.03.23

SUBJECT	KS Fr.250M TEFC
TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR

REF. NO	L2-Series	Sheet No. of
DWG NO	TJ5MAP51	Revision No. 0



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

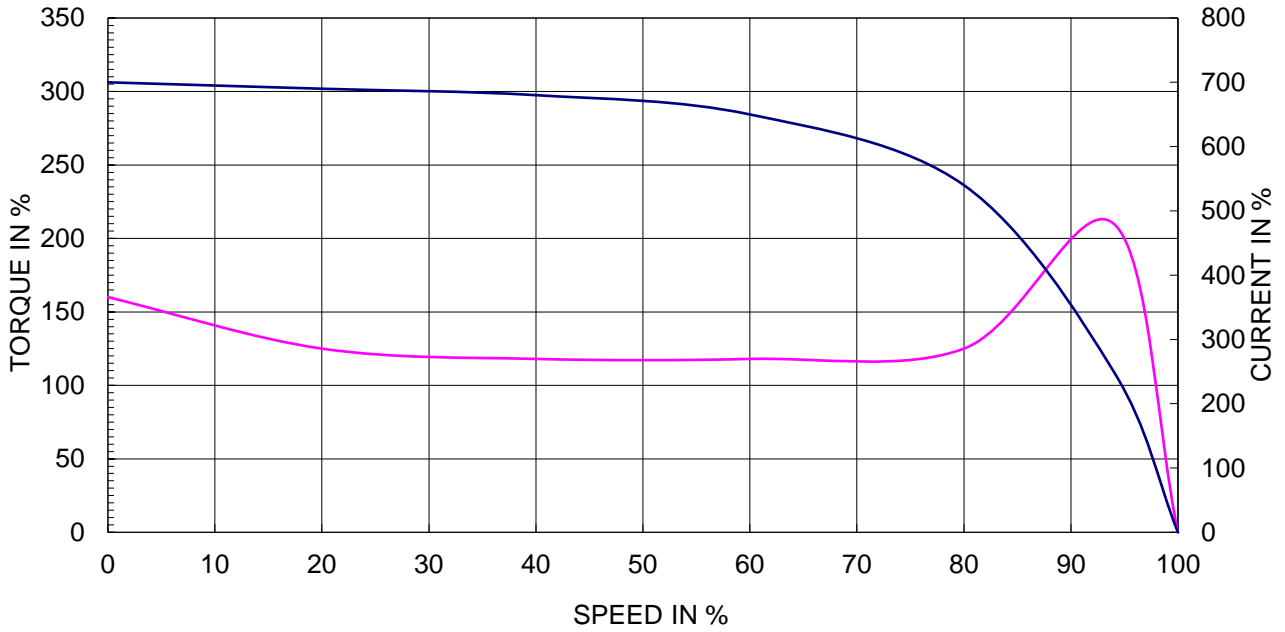
CURVE NO.

P-TNBJ5M04090

TYPE :		
RATED TORQUE :	49.7	Kg.m
GD2 OF MOTOR :	5.0	Kg.m ²
(ALLOWABLE) GD2 OF LOA	221.0	Kg.m ²

90 kW	4 P	60 Hz
RATED SPEED :		1765 RPM
VOLTAGE	440V	380 V
RATED CURRENT	144.8A	167.6 A
		289.5A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

