
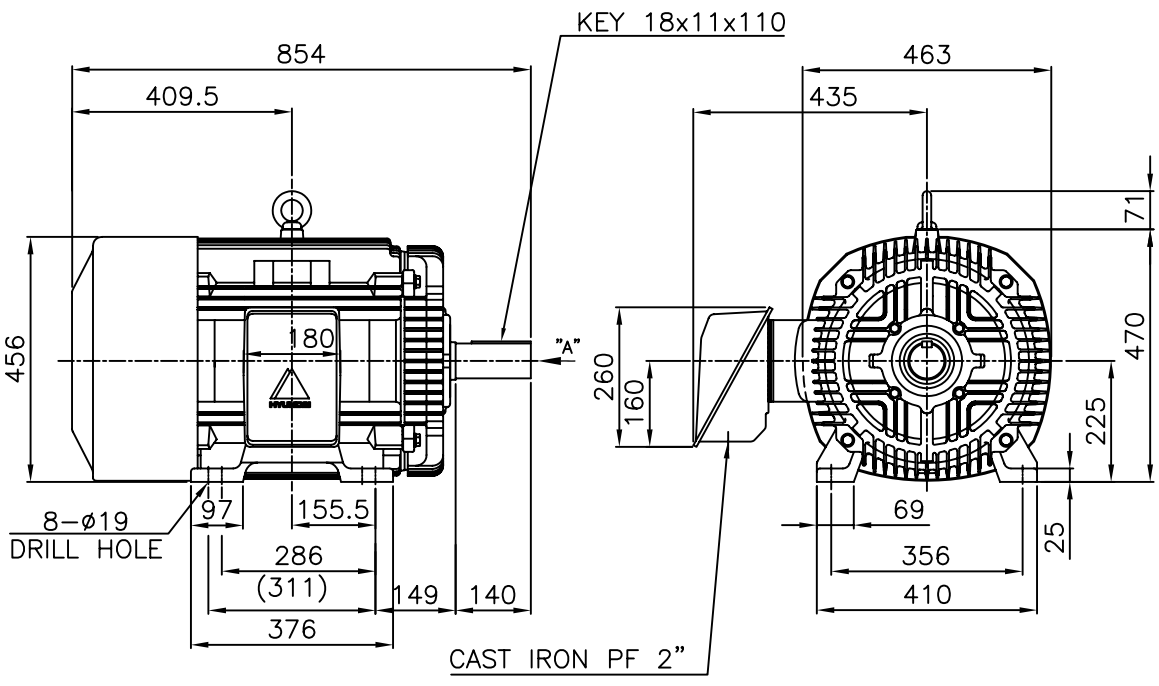
		DATA SHEET of AC INDUCTION MOTOR				60 HP - 6 P TE	
						DESIGN NO : KS C4202-1996	
Model No.or RFQ No.		Item No.		Rev. No.	[0]		
Project Name		Project No.		Quantity :			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame No.	225S		Output	60 HP 45 KW			
Type	TNB		Poles	6 P			
Enclosure(Protection)	Totally 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	79.1 A	91.6 A	158.3 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Start'g-D.O.L	498.5 A	577.2 A	997.0 A
Temp. Rise at full load (by resistance method)	at 1.0 S.F 105 °C		Efficiency				
Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		50% Load	90.1 %			
Altitude	Less than 1000 meter		75% Load	91.0 %			
Humidity	Less than 80 %		100% Load	91.0 %			
Ambient Temp.	40 °C (Max.)		Power Factor				
Duty	CONT.(S1)		50% Load	74.5 %			
Service Factor	1.00		75% Load	80.5 %			
Electric Design	NEMA Design B		100% Load	82.0 %			
Construction	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/>		Speed at Rated Load	1176 RPM / SLIP 2.00 %			
Bearing	Type	Anti-friction		Torque (D.O.L)			
	DE/ODE	6314C3 \ 6213C3		Rated	37.3 Kg.m	100 %	
	Lubricant	GREASE(ALVANIA#2)		Starting	63.4 Kg.m	170 %	
External Thrust	Not applicable		Break down	74.5 Kg.m	200 %		
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Allowable Load GD ² referred to motor shaft	351.500 Kg.m ²			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Motor GD ²	4.790 Kg.m ²			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Noise Level (dB(A))	73 dB(A) at 1m from motor(No-load)		
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Vibration(Velocity)	3.8 mm/sec.(peak)		
	Location	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right		Starting Duty	Cold 2 times \ Hot 1 time		
(Viewed from Drive End)			Paint	Munsell No.	4.OPB5.4/5.5(VL-451)		
Application			SUBMITTAL DRAWING				
Area Classification	Not applicable		Outline Dimension Drawing	\ Motor Weight(Approx.)			
Applicable Standard	KS		<input type="checkbox"/> B3	TJ2SAP51	370 Kg		
Inspection and Performance Test			<input type="checkbox"/> B5	TJ25BP51	400 Kg		
HHI Stand.	Maker Test Report		<input type="checkbox"/> V1	TJ25PP51	400 Kg		
ACCESSORIES(OPTION ITEM)			Main T-Box Ass'y	3M-016881			
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 없음 (취급유의)

THIS DRAWING IS PROPRIETARY TO HHI. NO PART OF THIS DRAWING
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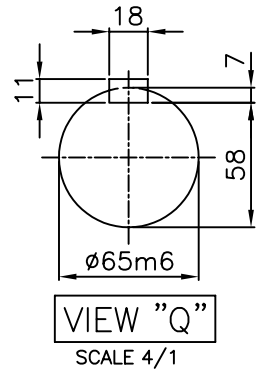
		<h1>TEFC</h1>		TYPE ⁽¹⁾ TNB , TDB CAST IRON FRAME
		THREE PHASE INDUCTION MOTOR		



NOTE

1. TOLERANCE :

CENTER HEIGHT	225	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLE	$\phi 19$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 65$	$\begin{matrix} +0.030 \\ +0.011 \end{matrix}$
KEYWAY WIDTH	18	$\begin{matrix} -0.018 \\ -0.061 \end{matrix}$
KEYWAY DEPTH	7	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	18	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEY HEIGHT	11	$\begin{matrix} 0 \\ -0.110 \end{matrix}$



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

				TEFC STANDARD		
APPD BY	KANG K.J.	UNIT	MM	SUBJECT	KS Fr.225S TEFC	CAD PROJ \ FILE
CHKD BY	KIM O.J.	SCALE	1/15			MMSTDMTR/TJ2SAP51
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle	TITLE OUTLINE THREE-PHASE INDUCTION MOTOR		
DSND BY	KIM RYANG GYU	DATE	2007.03.23			
				REF. NO	L2-Series	Sheet No. of
				DWG NO	TJ2SAP51	Revision No. 0



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

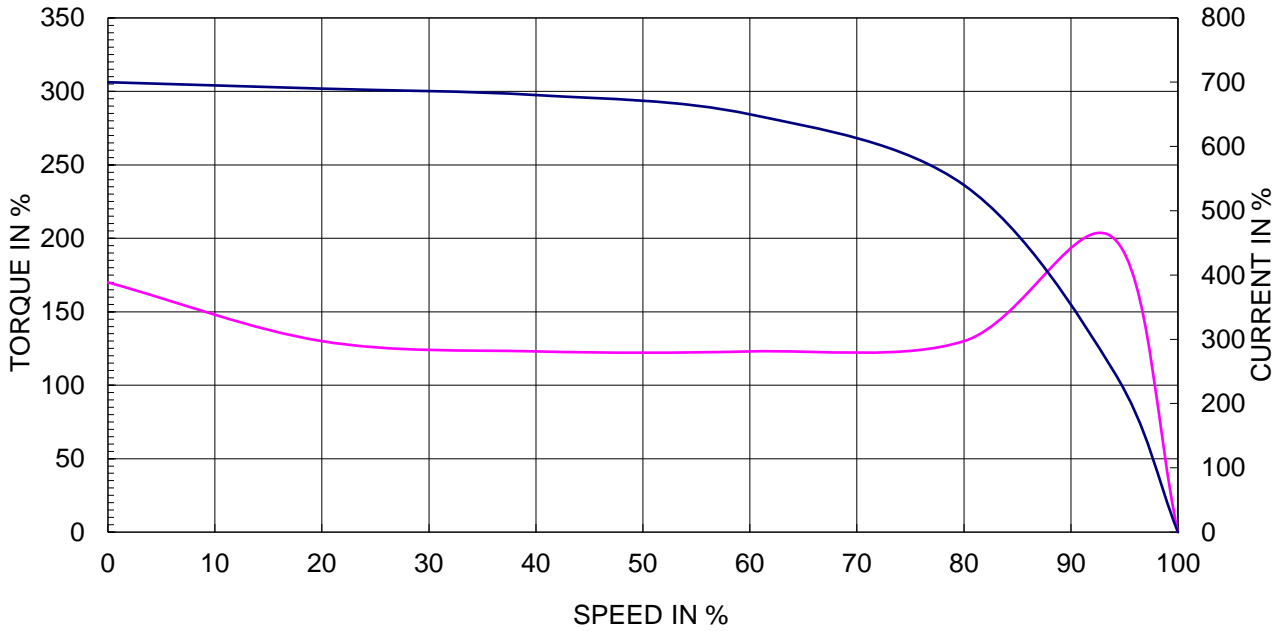
CURVE NO.

P-TNBJ2S06045

TYPE :		
RATED TORQUE :	37.3	Kg.m
GD2 OF MOTOR :	4.8	Kg.m ²
(ALLOWABLE) GD2 OF LOA	351.5	Kg.m ²

	45 kW	6 P	60 Hz
RATED SPEED :	1176 RPM		
VOLTAGE	440V	380 V	220V
RATED CURRENT	79.1A	91.6 A	158.3A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

