



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	250S	Rated Output	75 kW	100 HP	
Type	HS-75/2	Number of Poles	2		
Enclosure(Protection)	Totally Enclosed (IP55)	Rotor Type	Squirrel Cage		
Method of Cooling	IC411(FC)	Starting Method*	<input 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	116.2 A	134.5 A 232.4 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	50% Load	91.8 %		
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load	93.2 %		
Altitude	Less than 1000 meter	100% Load	93.6 %		
Relative Humidity	Less than 80 %	Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)	50% Load	0.879		
Duty Type	Continuous (S1)	75% Load	0.901		
Service Factor	1.15	100% Load	0.905		
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	3570 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6313C3 / 6313C3	Full Load	20.5 kg-m	
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor**	150 %	
External Thrust	Not applicable	Breakdown**	250 %		
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.)	9.050 kg-m ²		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor	1.053 kg-m ²	
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)	87 dB(A)	
	Location	Refer to Outline Drawing	Vibration	2.2 mm/sec (r.m.s)	
Application		Permissible number of consecutive starts	Cold	3 times	
Area classification	Non-Hazardous	Hot	2 times		
Type of Ex-Protection	Not applicable	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)				

ACCESSORIES	SUBMITTAL DRAWING
	Outline Dimension Drawing \ Motor Weight(Approx.)
	B3 TJ5SAC51 500 kg
	Main T-Box Ass'y 3M-016882

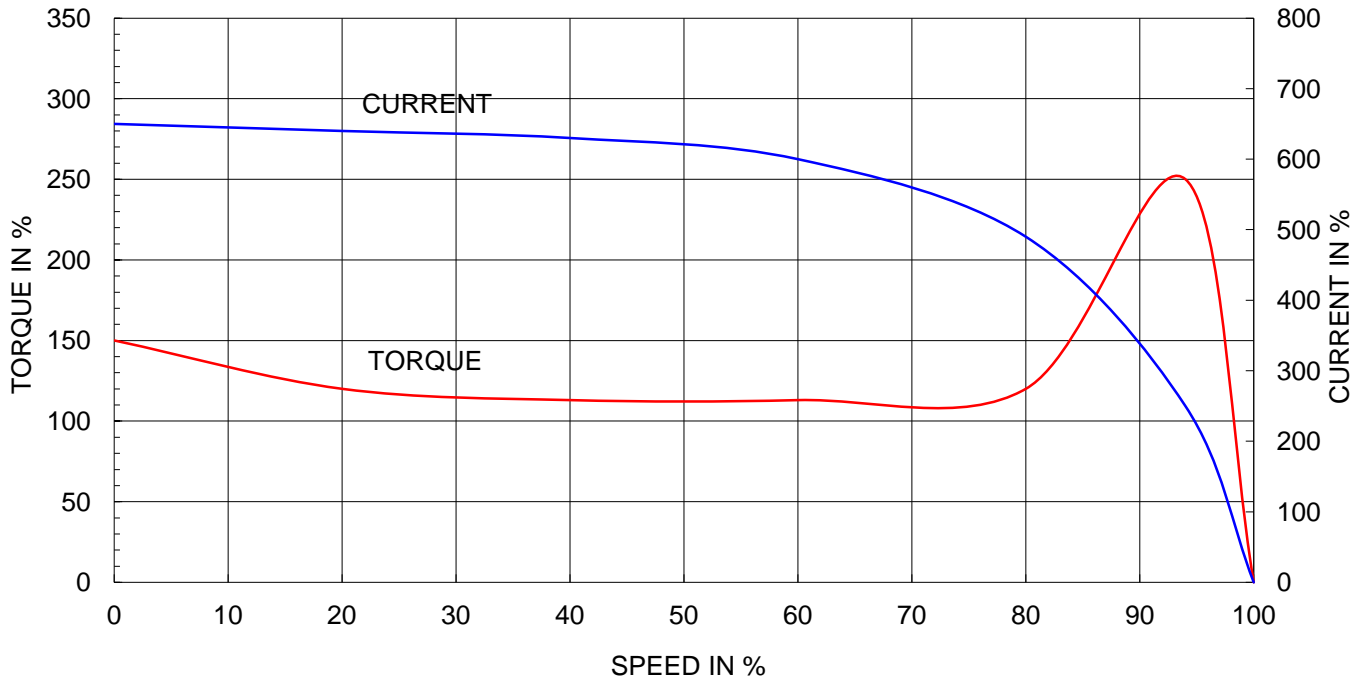
SPARE PARTS	REMARK
	High Efficiency
	*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise
	Date DSND CHKD CHKD APPD
	2010-05-28 R.G. KIM O.J. KIM J.H. KIM K.J. KANG

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.

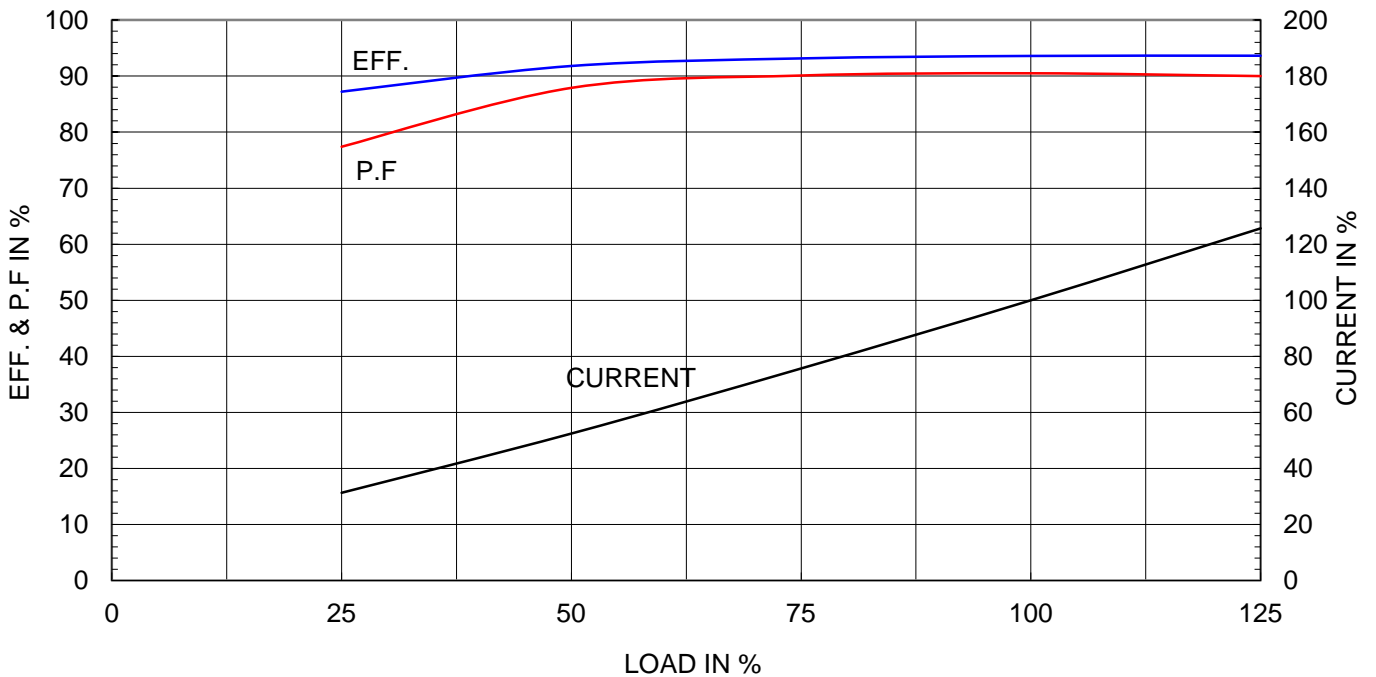
Type	:	HS
Full Load Torque	:	20.5 Kg.m
Motor moment of Inertia (J)	:	1.053 Kg.m ²
Load moment of Inertia (J)	:	9.050 Kg.m ²

75 kW	2 P	60 Hz	
Speed at Full Load :		3570 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	116.2A	134.5A	232.4A

SPEED VS TORQUE & CURRENT CURVE



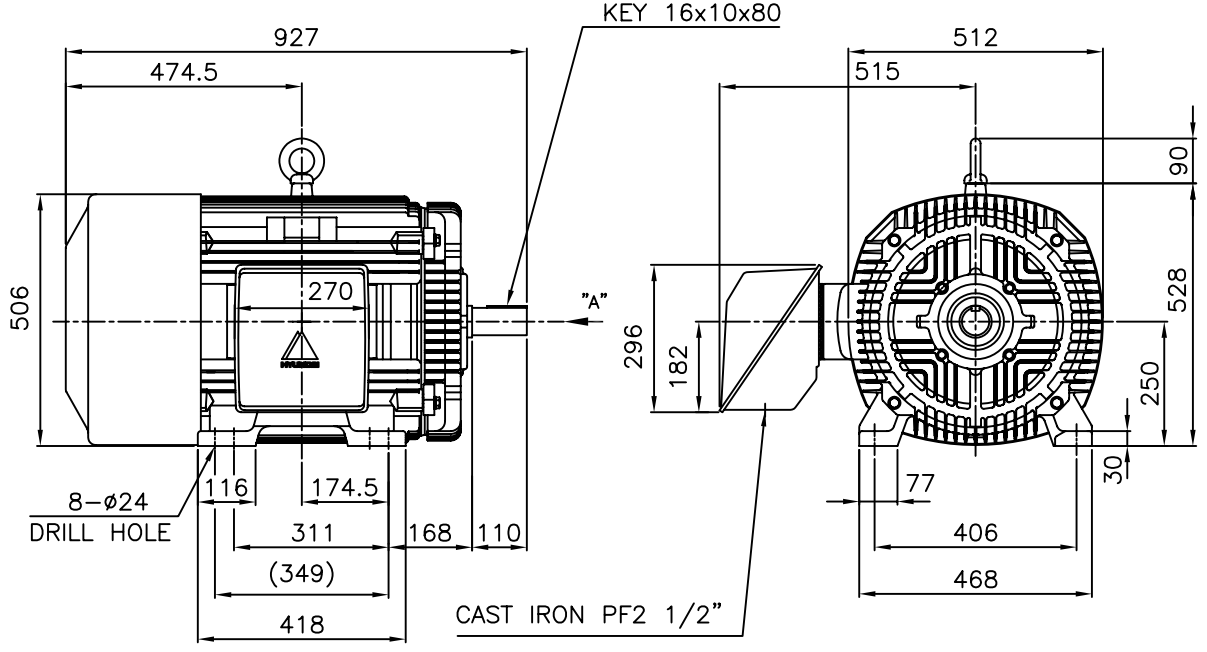
OUTPUT VS EFF., P.F & CURRENT CURVE



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

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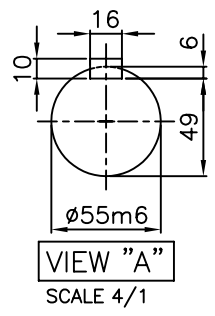
		<h1>TEFC</h1>		TYPE (1) TNB , TDB CAST IRON FRAME
		THREE PHASE INDUCTION MOTOR		



NOTE

1. TOLERANCE :

CENTER HEIGHT	250	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLE	$\phi 24$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 55$	$\begin{matrix} +0.030 \\ +0.011 \end{matrix}$
KEYWAY WIDTH	16	$\begin{matrix} -0.018 \\ -0.061 \end{matrix}$
KEYWAY DEPTH	6	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	16	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEY HEIGHT	10	$\begin{matrix} 0 \\ -0.090 \end{matrix}$



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

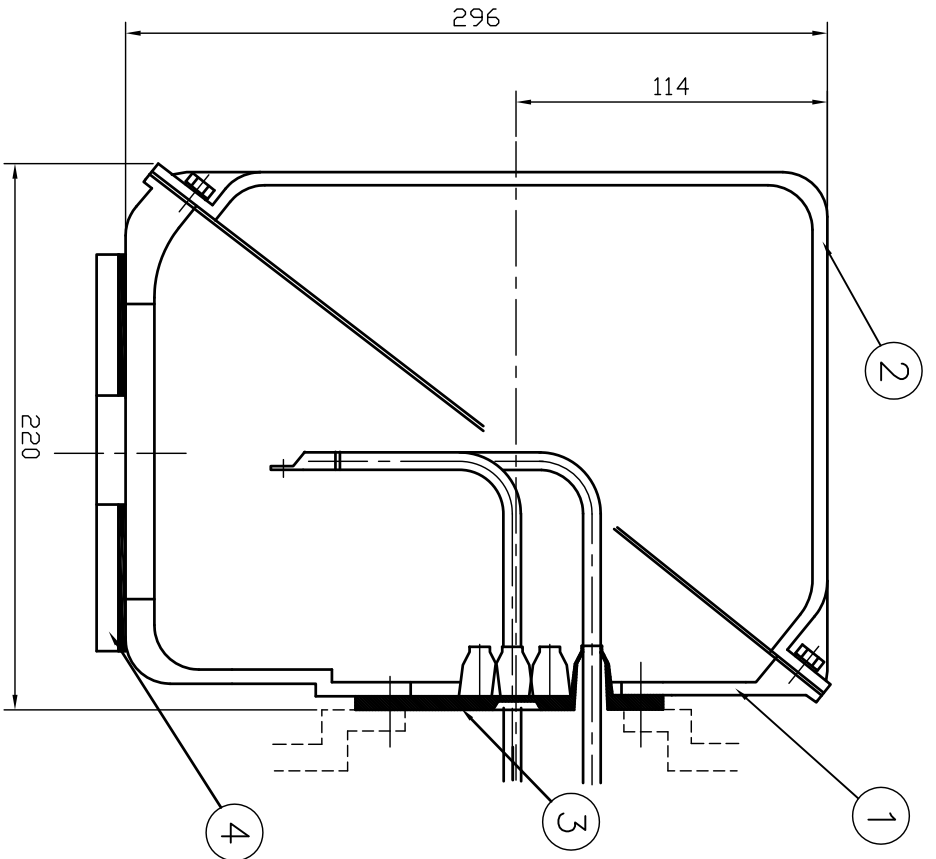
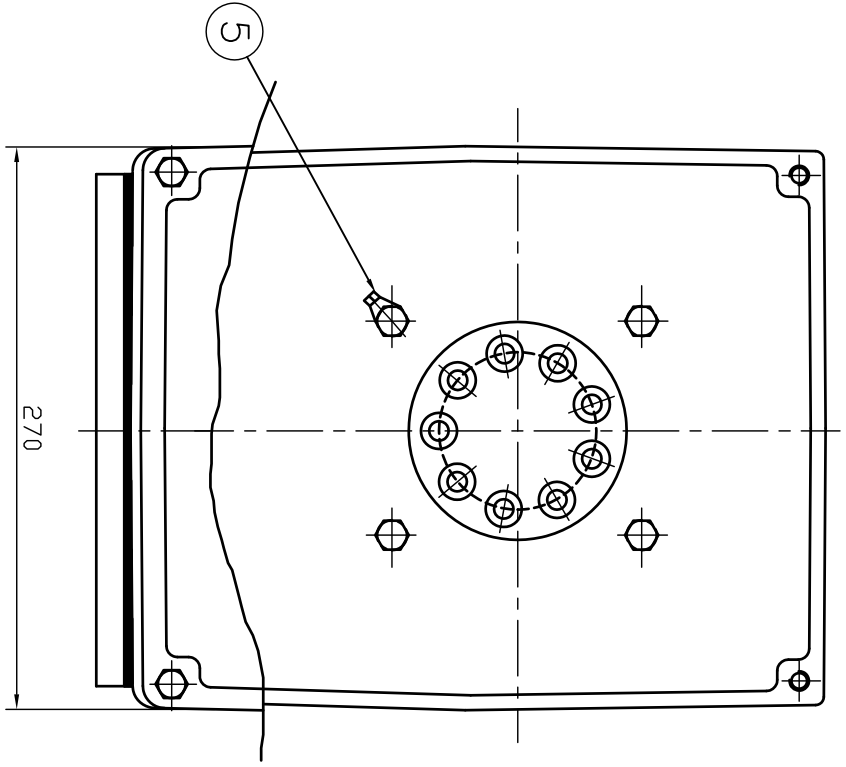
TEFC STANDARD

CAD PROJ \ FILE
MMSTDMTR/TJ5SAC51

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.250S TEFC
TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR

REF. NO	L2-Series	Sheet No. of
DWG NO	TJ5SAC51	Revision No. 0



REV	DATE	CONTENTS	REV'D BY	CHK'D BY	Q.P. CHK	APP'D BY
1						

1	EARTH TERMINAL LUG																			
1	CABLE ENTRY PLATE																			
1	GASKET	NBR																		
1	TERMINAL BOX COVER	CAST IRON																		
1	TERMINAL BOX BODY	CAST IRON																		
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.													
APP'D BY	권진오	UNIT	MM																	
Q.P. CHK	주영철	SCALE	NONE																	
CHK'D BY	권오철	PROJEC'N	3 레벨(3rd Angle)																	
DSND BY	김헌태	DATE	92.06.05																	
SUBJECT		HLA6 - 250,280Fr.		CAD PROJ		FILE														
TITLE		(CAST IRON)		T-BOX-M \ 38016882																
TITLE		TERMINAL BOX ASS'Y																		
REF. NO																				
DWG NO	3M-016882																			
Sheet No. of																				
Revision No.																				

