

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	55 kW 75 HP			
Type	HS-55/6		Number of Poles	6			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y- Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V		
Number of Phases	3		Current	Full Load	90.7 A 105.0 A 181.4 A		
Insulation Class	☒ F ☐ B ☐ 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 93.1 %				
Motor Location ☒ Indoor ☐ Outdoor			75% Load 93.7 %				
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 0.730				
Duty Type Continuous (S1)			75% Load 0.831				
Service Factor 1.15			100% Load 0.850				
Mounting ☐ B3 ☐ B5 ☐ V1 ☒ B3/B5			Speed at Full Load 1185 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6316C3 / 6313C3		Full Load 45.2 kg·m			
	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor** 150 %			
External Thrust Not applicable			Breakdown** 250 %				
Coupling Method ☒ Direct ☐ V-Belt			Moment of Inertia (J)				
Shaft Extension ☒ Single ☐ Double			Load(Max.) 112.550 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor 2.378 kg·m²			
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)			
Location Refer to Outline Drawing			73 dB(A)				
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification Non-Hazardous			Permissible number of				
Type of Ex-Protection Not applicable			consecutive starts Cold 3 times				
Applicable Standard KS,IEC,NEMA MG1 Part30(Vpeak)			Hot 2 times				
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		kg		
			B5		kg		
			V1		kg		
			B3/B5		TJ5SCP51 525 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

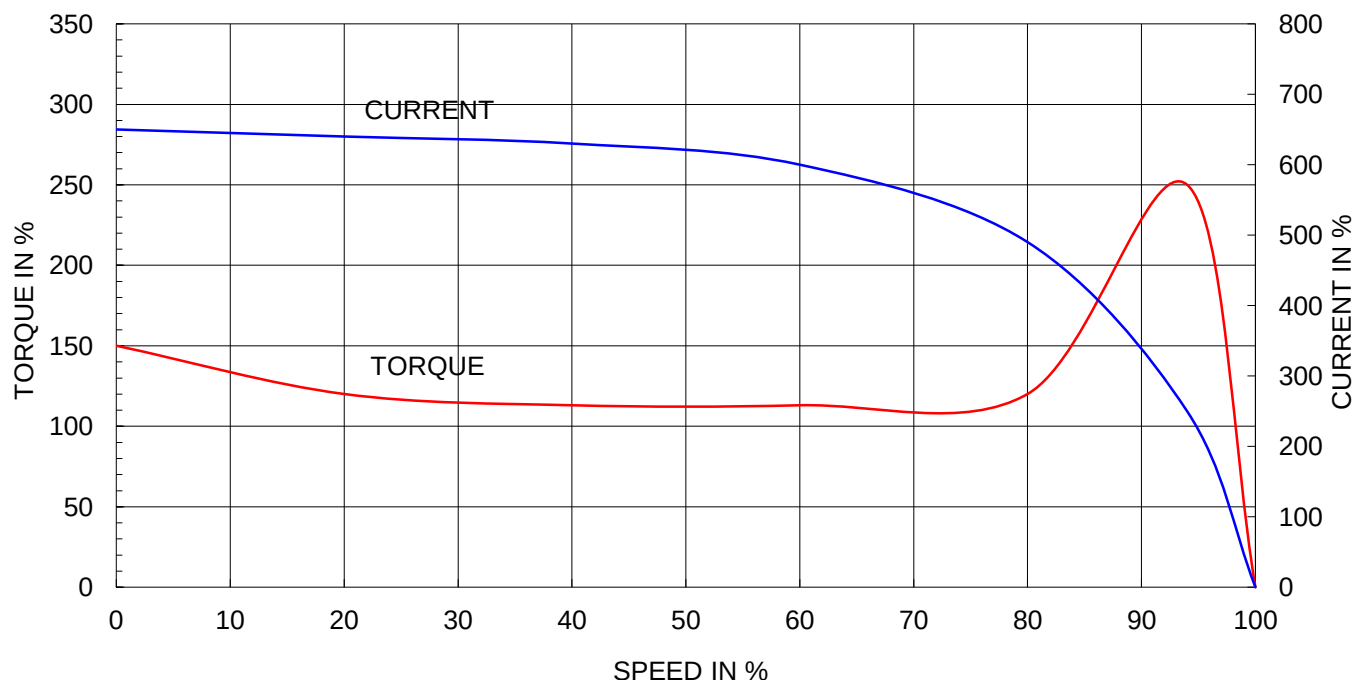
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed 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.

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)

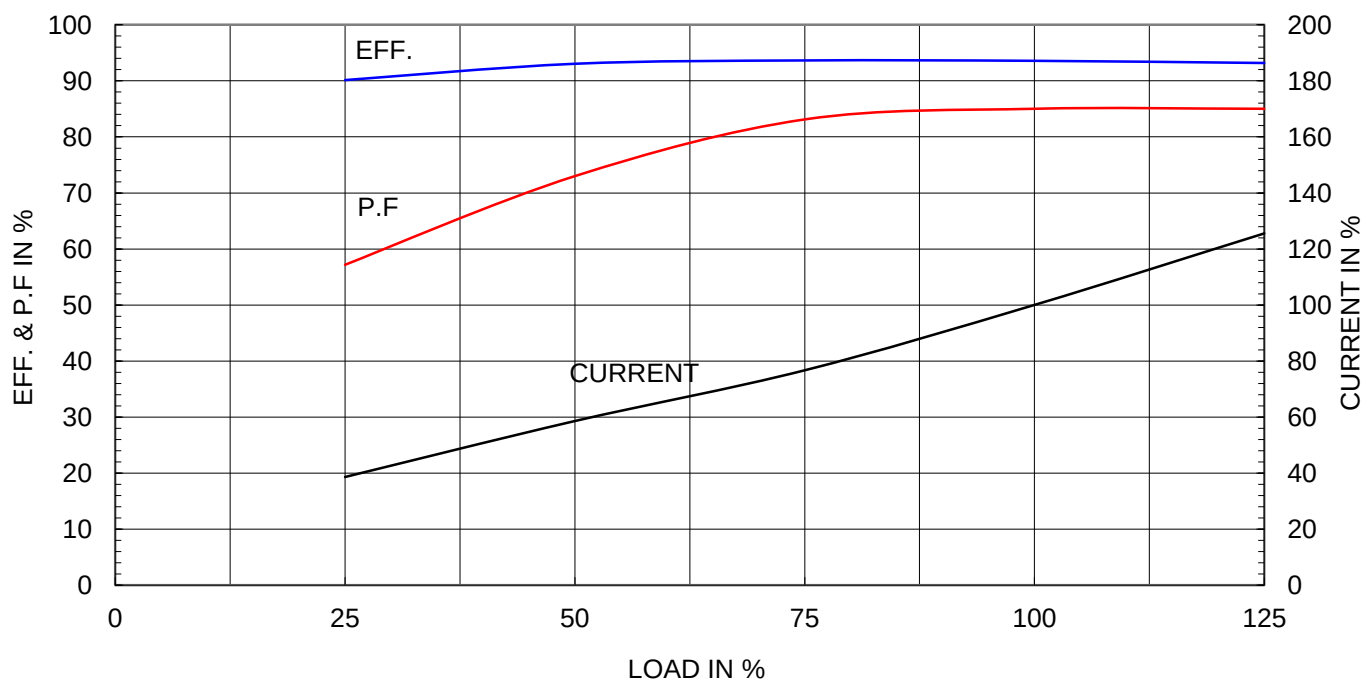
Type	:	HS
Full Load Torque	:	45.2 Kg.m
Motor moment of Inertia (J)	:	2.378 Kg.m ²
Load moment of Inertia (J)	:	112.550 Kg.m ²

55 kW		6 P		60 Hz	
Speed at Full Load :				1185 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	90.7A	105.0A	181.4A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



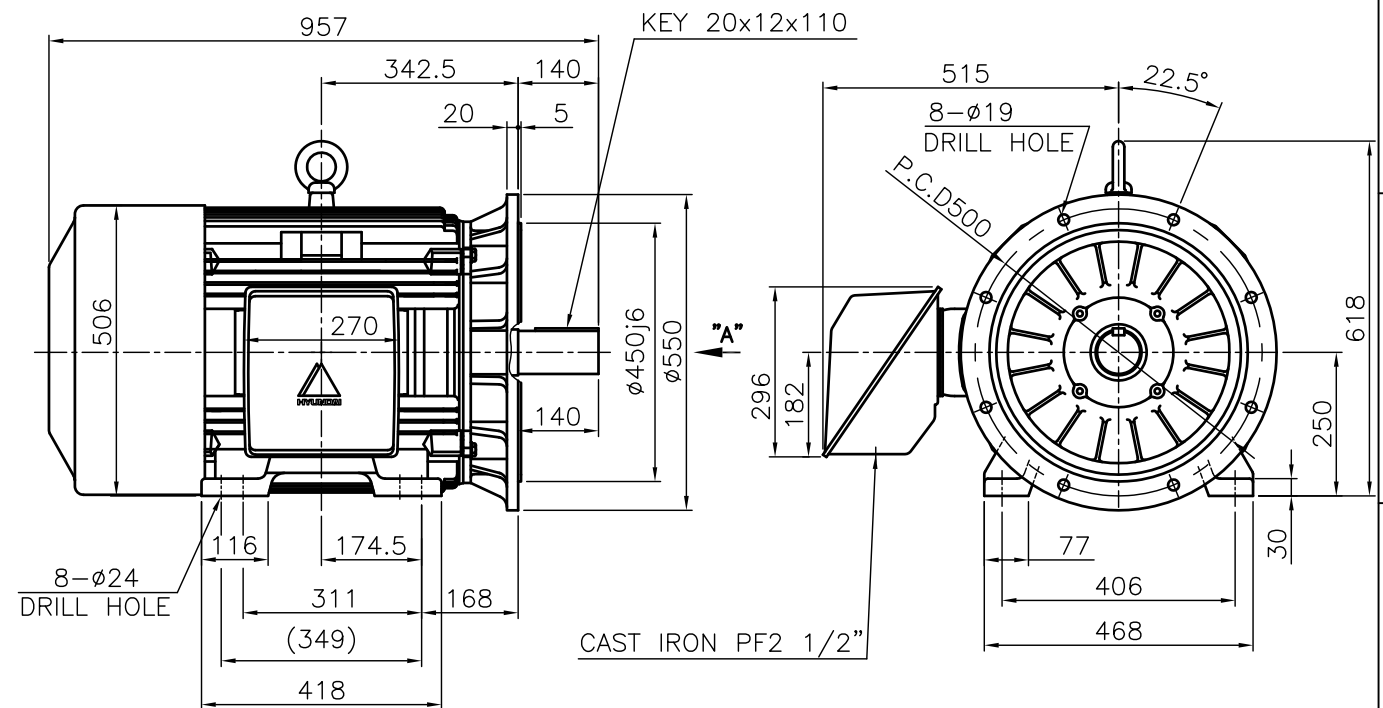
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 HYUNDAI HEAVY INDUSTRIES CO., LTD.		TEFC THREE PHASE INDUCTION MOTOR		TYPE	(1) TNB , TDB
					CAST IRON FRAME

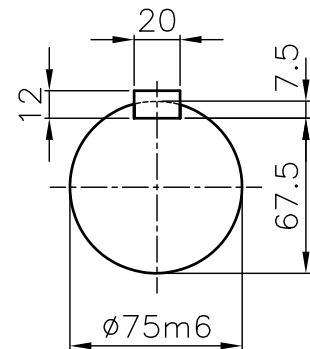


NOTE

1.TOLERANCE :

CENTER HEIGHT	250	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
RABBET DIAMETER	$\phi 450 \pm 0.020$	
SHAFT DIAMETER	$\phi 75$	$\begin{smallmatrix} +0.030 \\ +0.011 \end{smallmatrix}$
KEYWAY WIDTH	20	$\begin{smallmatrix} -0.022 \\ -0.074 \end{smallmatrix}$
KEYWAY DEPTH	7.5	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$

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
MMSTD MTR/TJ5SCP51	

APPD BY	KANG K.J.	UNIT	MM
CHKD BY	KIM O.J.	SCALE	1/13
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	TJ5SCP51	Revision No. 0

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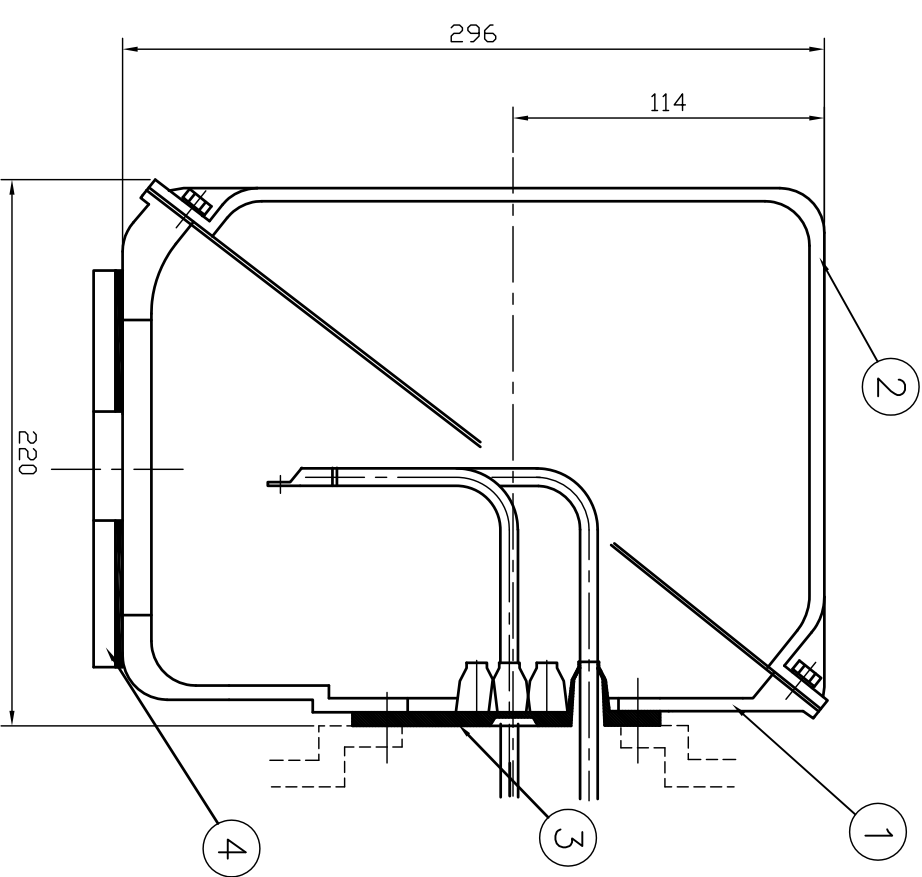
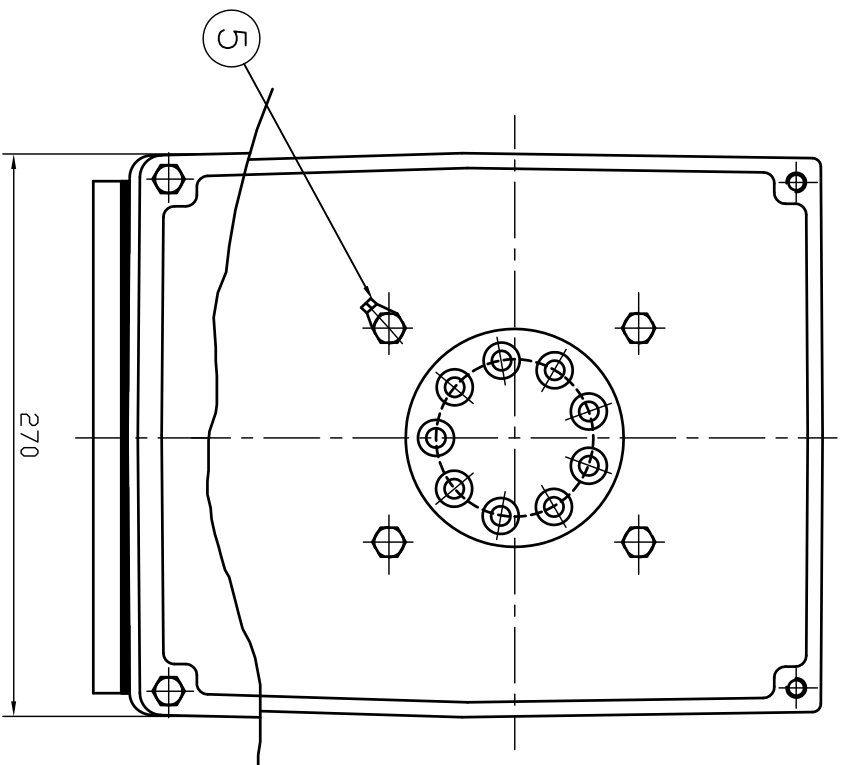
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D

C

B

A



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

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
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK NO.
APP'D BY	김진오	UNIT	MM	SUBJECT	HLA6 - 250,280Fr.	CAD PROJ. & FILE & T-BOX-M \ 38016882
Q.P. CHK	주영걸	SCALE	NONE	TITLE	(CAST IRON)	
CHK'D BY	권오철	PROJEC'T	3 & 2nd (3rd Angle)	TERMINAL BOX ASS'Y		
DSND BY	김헌태	DATE	92.06.05	REF. NO		Sheet No. of
				DWG NO	3M-016882	Revision No.

