

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		250M		Rated Output		75 kW 100 HP	
Type		HS-75/6		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 123.0 A 142.5 A 246.1 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		93.9 %	
Motor Location		☐ Indoor ☒ Outdoor		75% Load		94.2 %	
Altitude		Less than 1000 meter		100% Load		94.1 %	
Relative Humidity		Less than 80 %		Power Factor(p.u)			
Ambient Temp.		40 deg. C (Max.)		50% Load		0.768	
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		61.6 kg·m	
	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor**		150 %	
External Thrust		Not applicable		Breakdown**		230 %	
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)			
Shaft Extension		☒ Single ☐ Double		Load(Max.)		126.775 kg·m²	
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor		2.758 kg·m²	
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing				75 dB(A)	
Application				Vibration		2.2 mm/sec (r.m.s)	
Area classification		Non-Hazardous		Permissible number of consecutive starts		Cold 3 times 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			kg
				B5			kg
				V1		TJ50PP51	590 kg
				B3/B5			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.

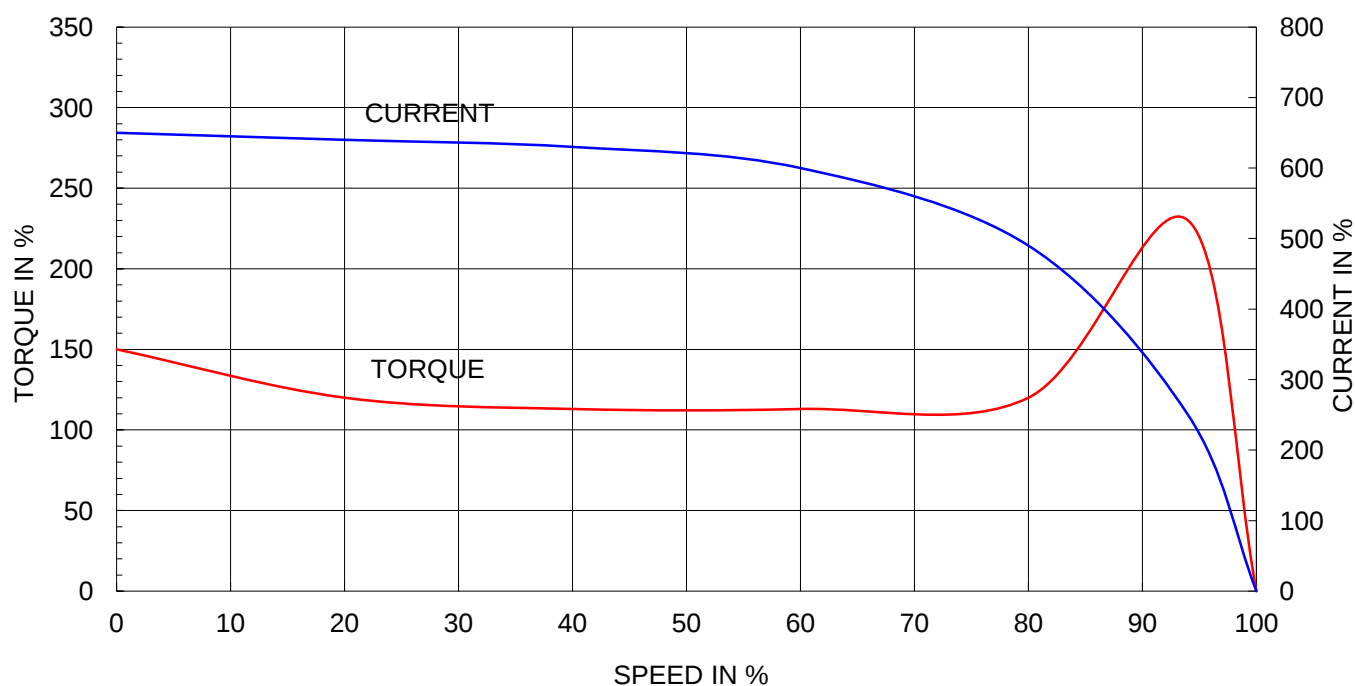
** Data is based on when the motor is supplied at rated voltage & frequency, and the data is expressed as a percentage of full-load value.

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)

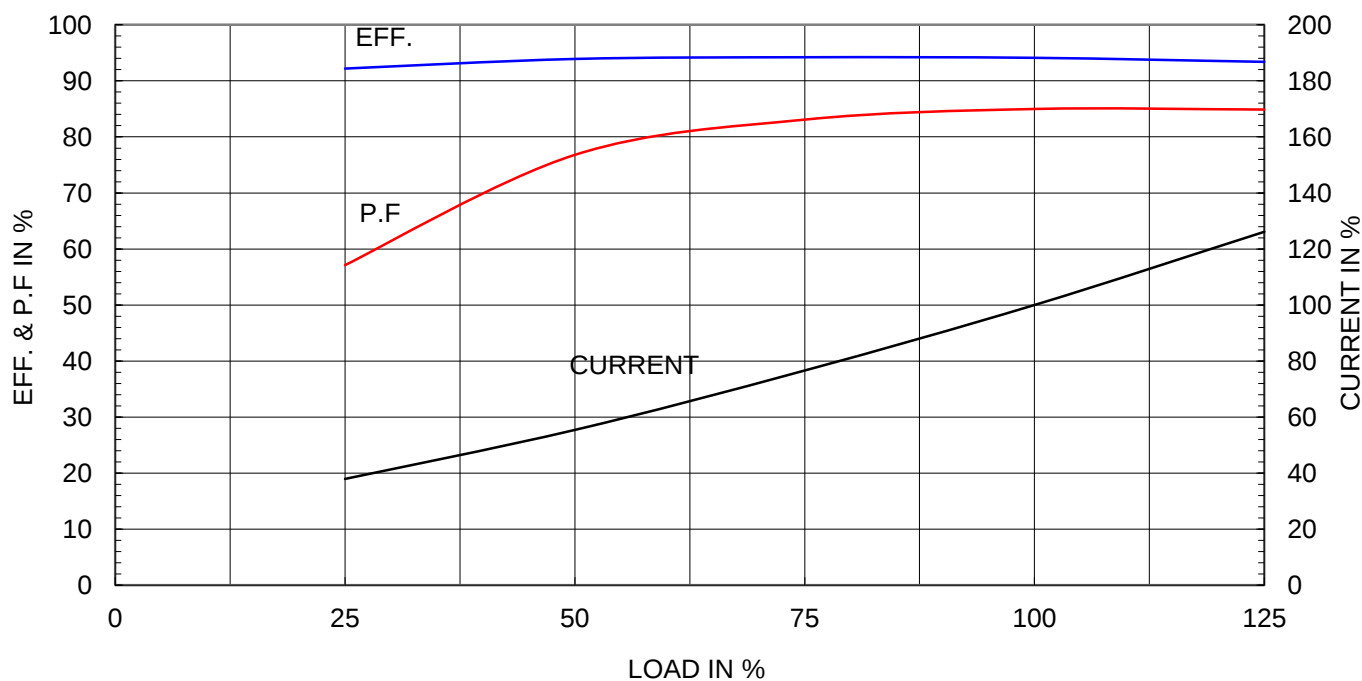
Type	:	HS
Full Load Torque	:	61.6 Kg.m
Motor moment of Inertia (J)	:	2.758 Kg.m ²
Load moment of Inertia (J)	:	126.775 Kg.m ²

75 kW		6 P		60 Hz	
Speed at Full Load :				1185 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	123.0A	142.5A	246.1A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



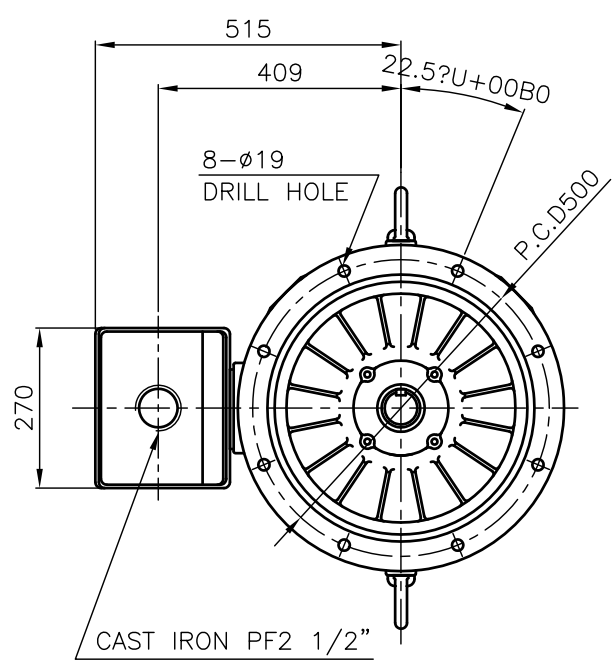
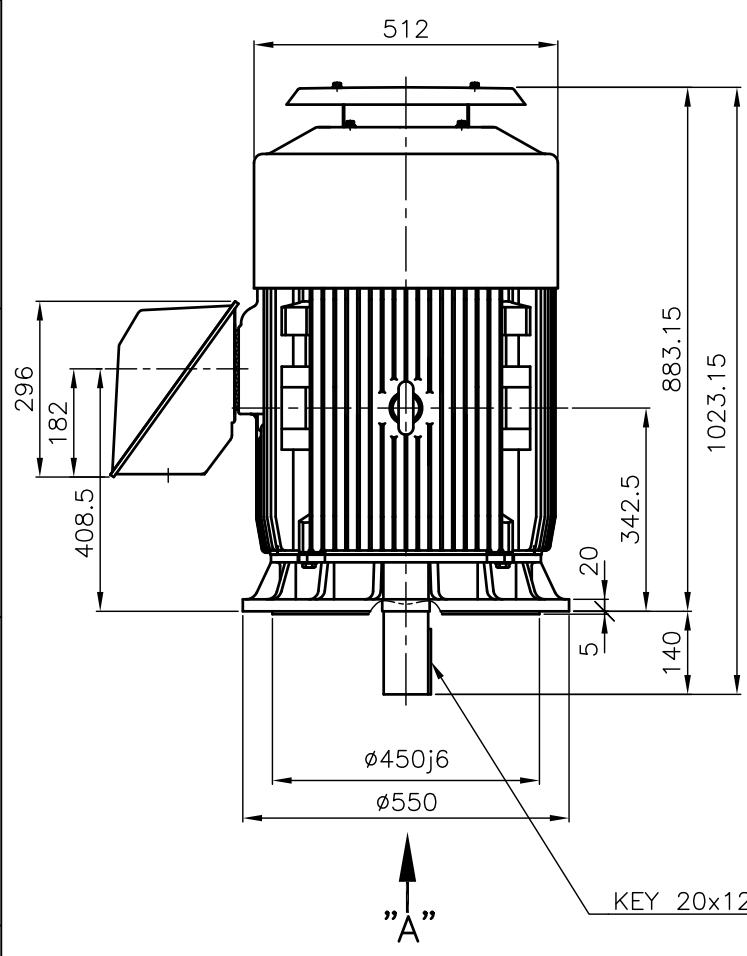


TEFC

THREE PHASE INDUCTION MOTOR

TYPE

(1) TNB , TDB
CAST IRON FRAME

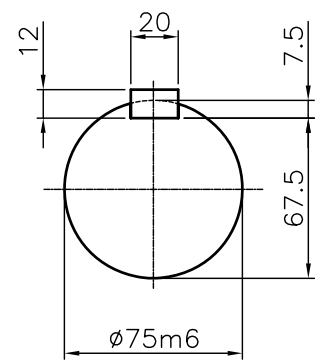


NOTE

1.TOLERANCE :

RABBET DIAMETER	ø450j6	±0.020
SHAFT DIAMETER	ø75m6	+0.030 +0.011
KEYWAY WIDTH	20P9	-0.022 -0.074
KEYWAY DEPTH	7.5	+0.2 0

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

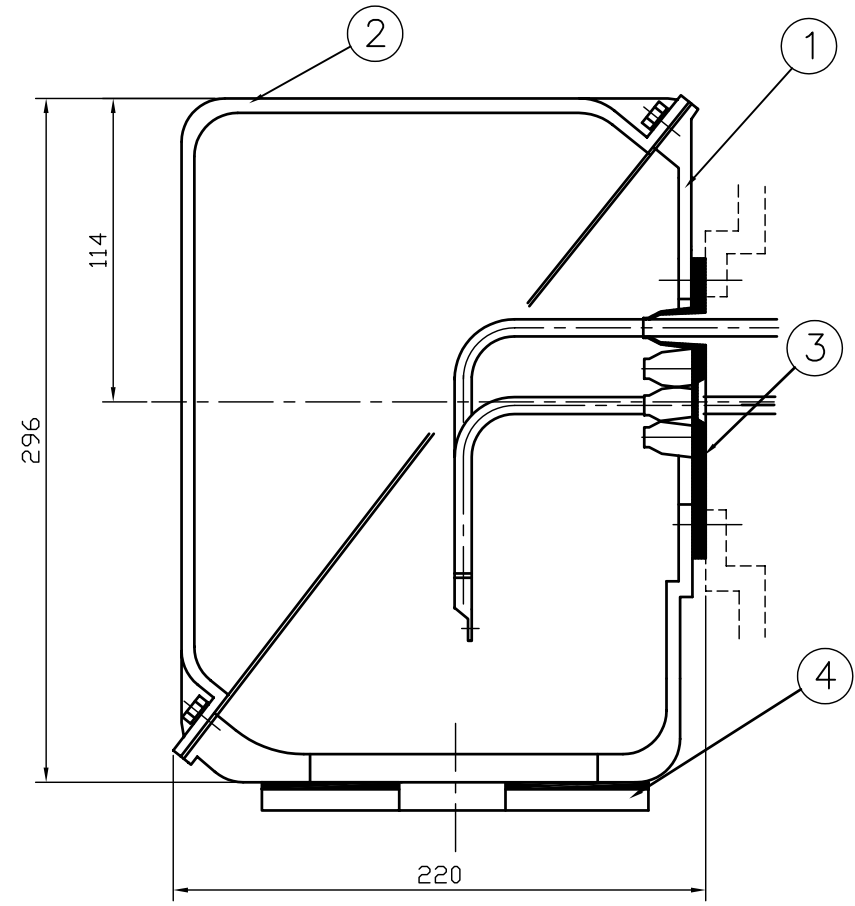
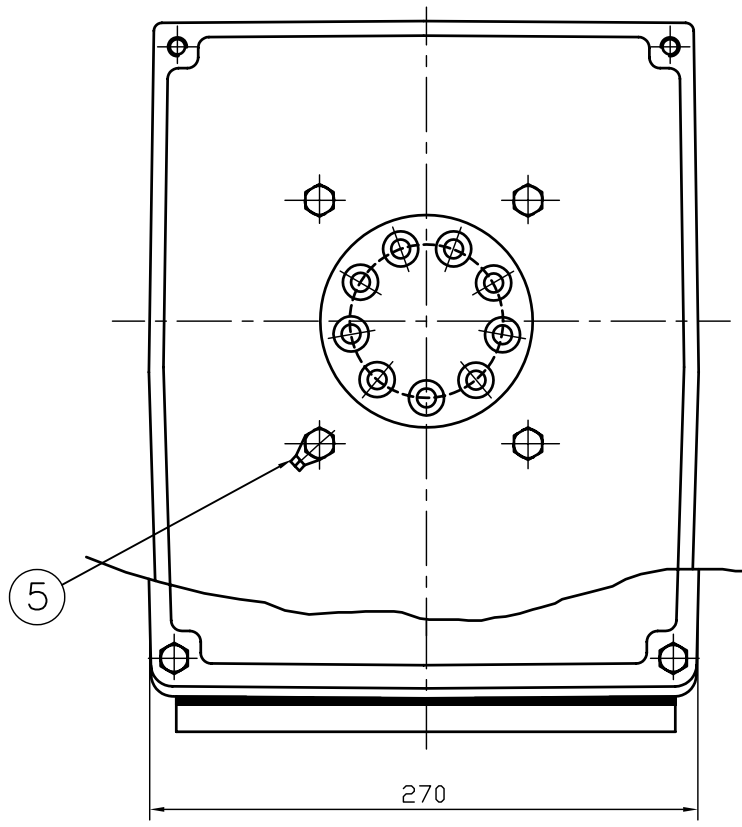
TEFC STANDARD
CAD PROJ \ FILE
MMSTD MTR/TJ50PP51

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.250 TEFC	
TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR	
REF. NO	L3-SERIES	Sheet No. of
DWG NO	TJ50PP51	Revision No. 0



본 도면은 현대중공업(주) 재산이므로 허가없이
복사할 수 없음 (도면제출 시 유의하시기 바랍니다.)



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	
Q'TY	DESCRIPTION	MATERIAL	DIMENSION		WEIGHT	PART NO.	REMARK	NO.
APPD BY	김 진 오	UNIT	MM	SUBJECT	HLA6 - 250,280Fr.		CAD PROJ 圖 \ FILE 圖 T-BOX-M \ 3R016882	
Q.P. CHK	주 영 겅	SCALE	NONE	TITLE (CAST IRON) TERMINAL BOX ASS'Y				
CHKD BY	권 오 철	PROJEC'N	3 각법 (3rd Angle)					
DSND BY	김 현 태	DATE	92.06.05	REF. NO			Sheet No. of	
 HYUNDAI ELECTRICAL ENGINEERING CO., LTD.				DWG NO	3M-016882		Revision No.	

REV	DATE	CONTENTS	REVD BY	CHKD BY	Q.P. CHK	APPD BY
1						
2						
3						
4						