

# AC INDUCTION MOTOR DATA SHEET

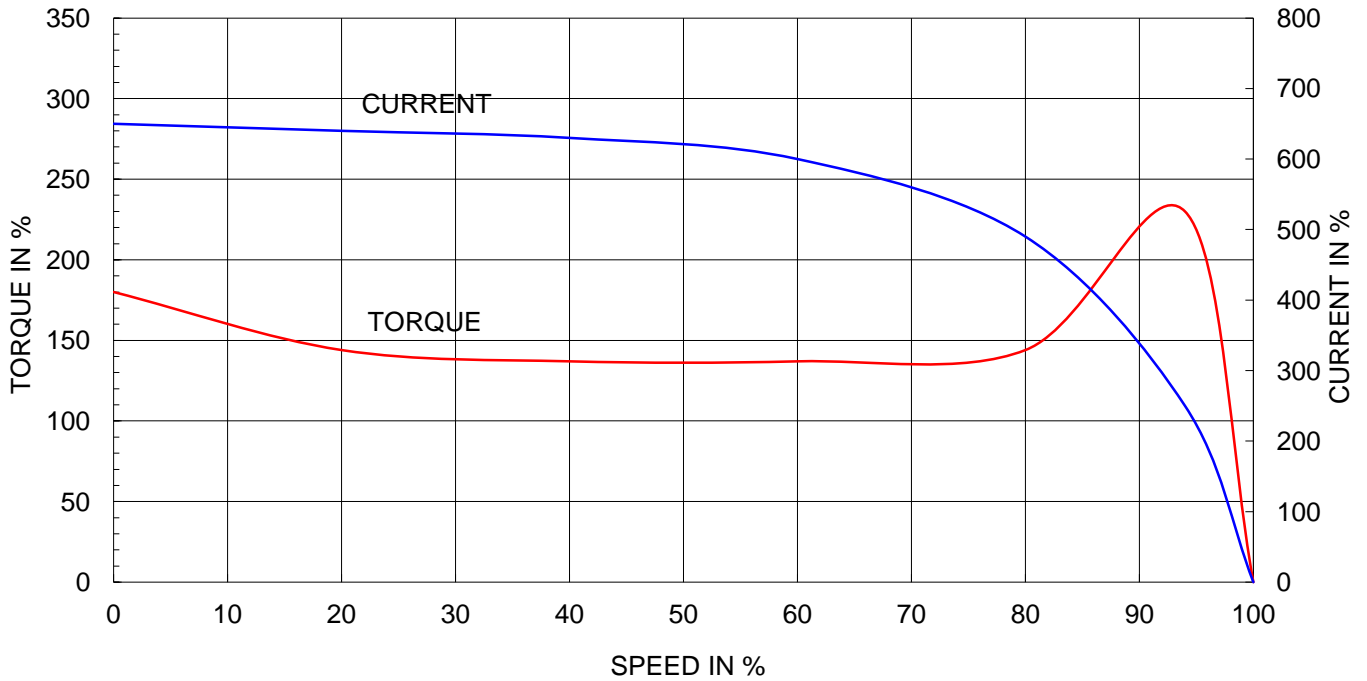
Model No.or RFQ No.		Item No.		Rev. No. [ 0 ]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	280L		Rated Output	132 kW 175 HP			
Type	HS-132/6		Number of Poles	6			
Enclosure(Protection)	Totally Enclosed ( IP55 )		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	<input checked="" 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	209.6 A 242.7 A 419.1 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    95.0 %				
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load    95.1 %				
Altitude    Less than 1000 meter			100% Load    95.0 %				
Relative Humidity    Less than 80 %			Power Factor(p.u)				
Ambient Temp.    40 deg. C (Max.)			50% Load    0.750				
Duty Type    Continuous ( S1 )			75% Load    0.851				
Service Factor    1.15			100% Load    0.870				
Mounting <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5			Speed at Full Load    1185 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6318C3 / 6316C3		Full Load	108.5 kg·m		
	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor**	180 %		
External Thrust    Not applicable			Breakdown**    230 %				
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.)    224.250 kg·m <sup>2</sup>				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor    5.753 kg·m <sup>2</sup>			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sound Pressure Level (No-load & mean value at 1m from motor)			
Location    Refer to Outline Drawing			80 dB(A)				
Application			Vibration    2.2 mm/sec (r.m.s)				
Area classification    Non-Hazardous			Permissible number of consecutive starts				
Type of Ex-Protection    Not applicable			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	TJ8LAP51	890 kg		
			B5		kg		
			V1		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.

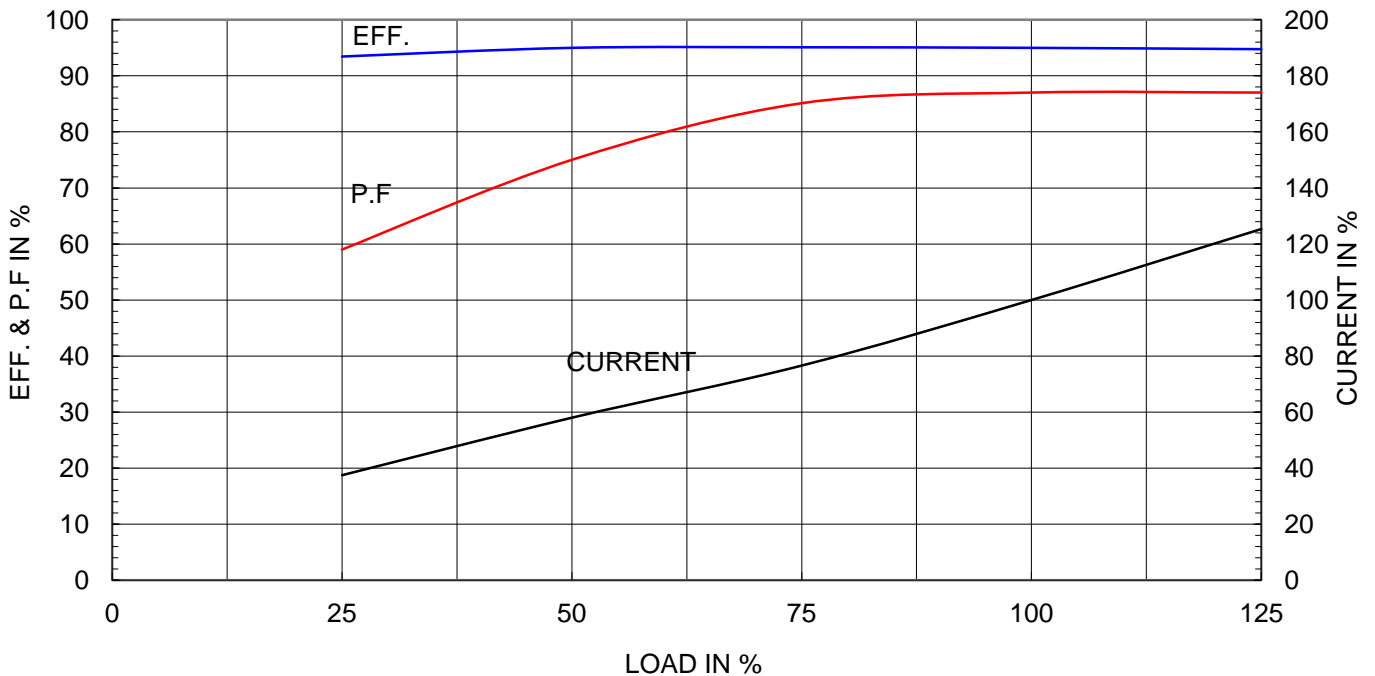
Type	:	HS
Full Load Torque	:	108.5 Kg.m
Motor moment of Inertia (J)	:	5.753 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	224.250 Kg.m <sup>2</sup>

132 kW	6 P	60 Hz	
Speed at Full Load : 1185 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	209.6A	242.7A	419.1A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



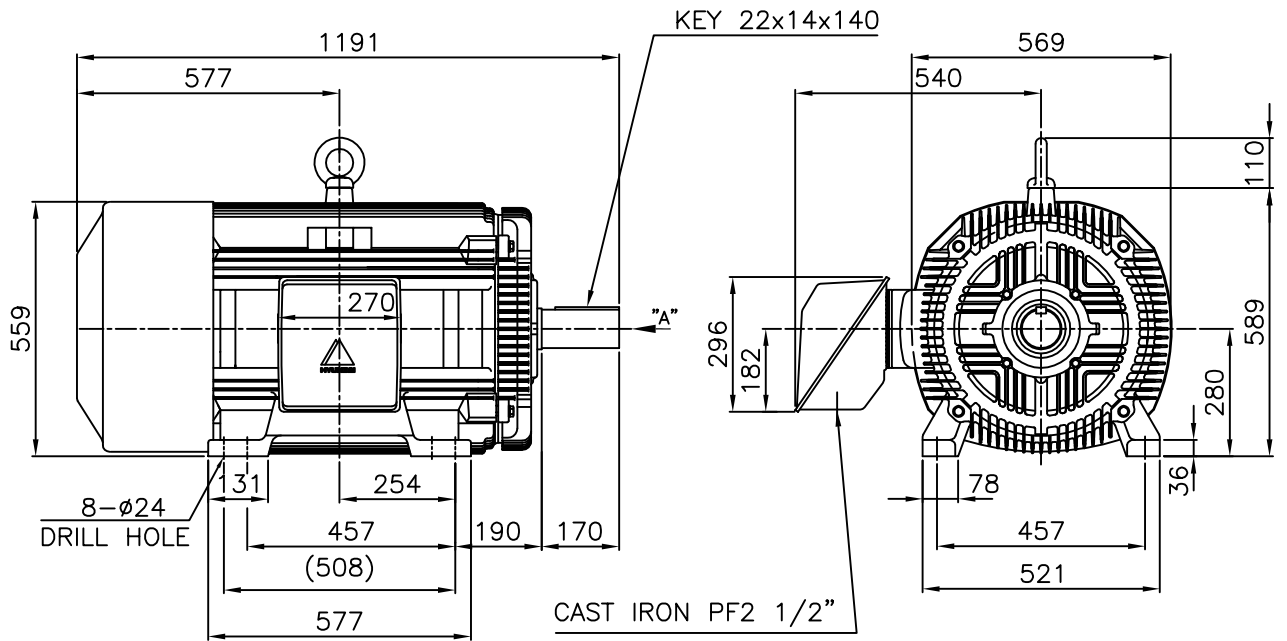
**HYUNDAI**  
 HEAVY INDUSTRIES CO., LTD.

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

此圖為本公司之財產，其內容之全部或局部，均不得在未經本公司之許可下，擅自翻印或複製。

此圖為本公司之財產，其內容之全部或局部，均不得在未經本公司之許可下，擅自翻印或複製。

 <p><b>HYUNDAI</b> HEAVY INDUSTRIES CO., LTD.</p>	<h1 style="font-size: 2em;">TEFC</h1> <h2 style="font-size: 1.2em;">THREE PHASE INDUCTION MOTOR</h2>	<h3 style="font-size: 1.2em;">TYPE</h3>	<p><sup>(1)</sup> TNB , TDB</p> <hr/> <p>CAST IRON FRAME</p>
--	--	---	--

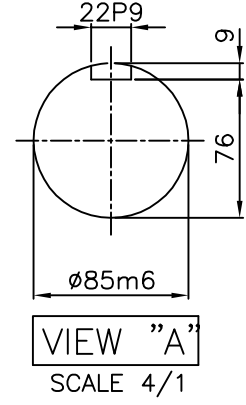


NOTE

1.TOLERANCE :

CENTER HEIGHT	280 <sup>0</sup> / <sub>-1.0</sub>
SHAFT DIAMETER	ø85 <sup>+0.035</sup> / <sub>+0.013</sub>
KEYWAY WIDTH	22 <sup>-0.022</sup> / <sub>-0.074</sub>
KEYWAY DEPTH	9 <sup>+0.2</sup> / <sub>0</sub>

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/TJ8LAP51

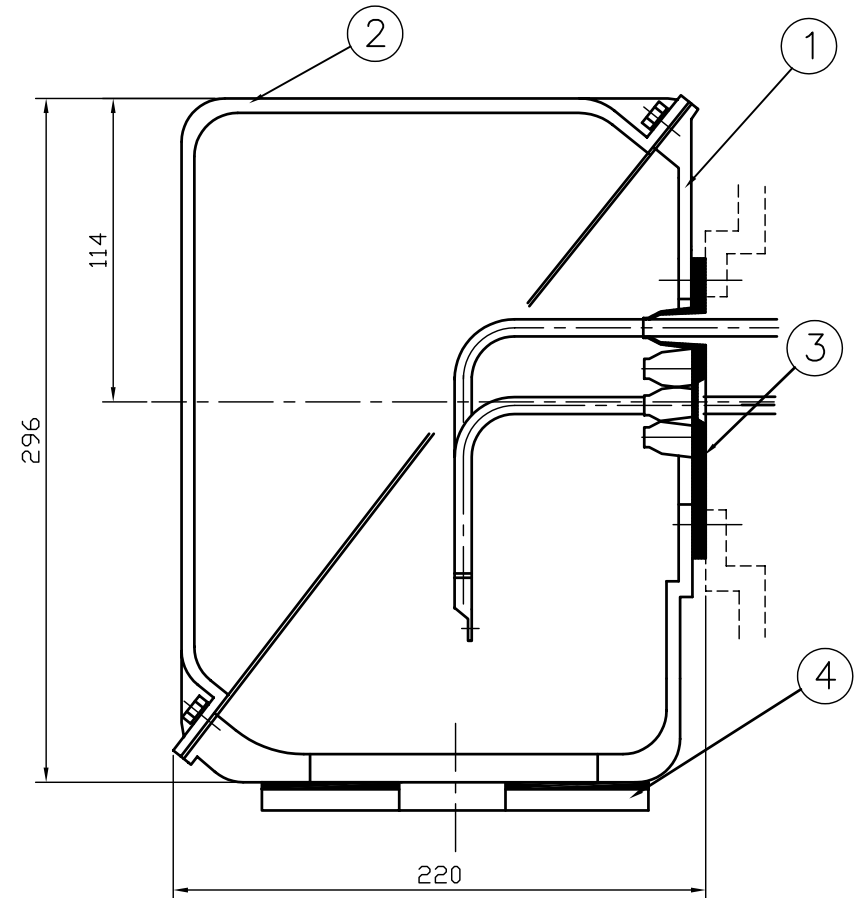
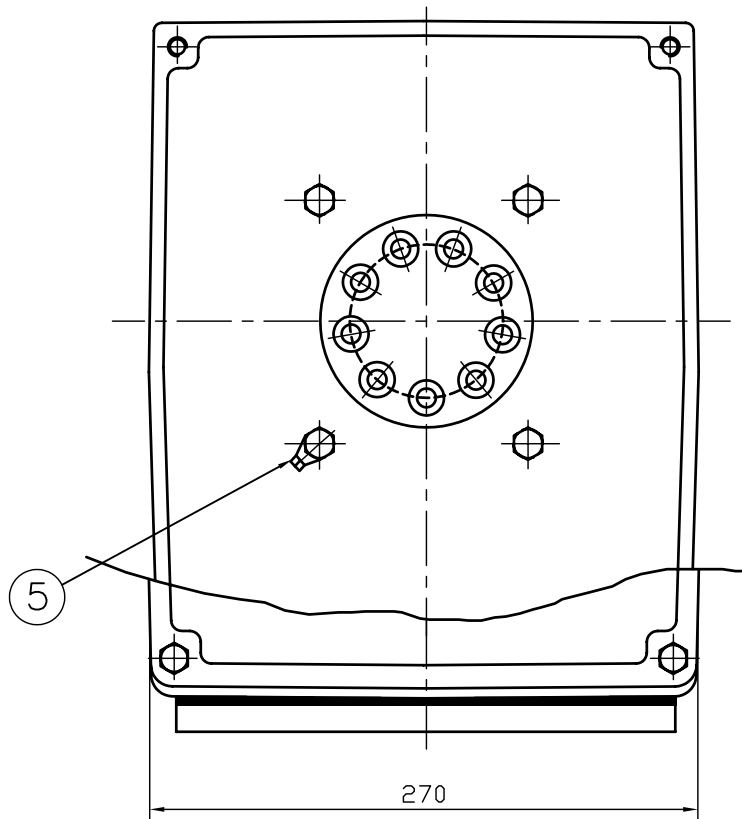
APPD BY	KANG K.J.	UNIT	MM
CHKD BY	KIM O.J.	SCALE	1/17
CHKD BY	<del>                    </del>	PROJEC'N	3rd Angle
DSND BY	KIM RYANG GYU	DATE	2003.08.30

SUBJECT	KS Fr.280L TEFC	TITLE	OUTLINE
THREE-PHASE INDUCTION MOTOR			

  
**HYUNDAI**  
 HEAVY INDUSTRIES CO., LTD.  
 INDUSTRIAL & POWER SYSTEMS

REF. NO	L2-Series	Sheet No.	of
DWG NO	TJ8LAP51	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	김진오	UNIT	MM	SUBJECT	HLA6 - 250,280Fr. CAD PROJ FILE		
Q.P CHK	주영걸	SCALE	NONE	TITLE	(CAST IRON)		
CHKD BY	권오철	PROJEC'N	3각법(3rd Angle)	TERMINAL BOX ASS'Y			
DSND BY	김헌태	DATE	92.06.05	REF. NO		Sheet No. of	
				DWG NO	3M-016882	Revision No.	

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