

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	280S		Rated Output	110 kW 150 HP			
Type	HS-110/2		Number of Poles	2			
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	169.7 A 196.5 A 339.4 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)	at 1.0 S.F 80 deg. C		Efficiency	50% Load 92.6 % 75% Load 94.0 % 100% Load 94.5 %			
Motor Location	<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor		Power Factor(p.u)	50% Load 0.896 75% Load 0.900 100% Load 0.900			
Altitude	Less than 1000 meter		Speed at Full Load	3570 r.p.m			
Relative Humidity	Less than 80 %		Torque	Full Load 30.0 kg·m Locked-rotor** 150 % Breakdown** 250 %			
Ambient Temp.	40 deg. C (Max.)		Moment of Inertia (J)	Load(Max.) 12.350 kg·m² Motor 2.100 kg·m²			
Duty Type	Continuous (S1)		Sound Pressure Level (No-load & mean value at 1m from motor)	90 dB(A)			
Service Factor	1.15		Vibration	2.2 mm/sec (r.m.s)			
Mounting	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input checked="" type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Permissible number of consecutive starts	Cold 3 times Hot 2 times			
Bearing	Type	Anti-Friction	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
	DE/N-DE	6314C3 / 6314C3					
	Lubricant	Grease(Gadus S2 V 100 2)					
External Thrust	Not applicable						
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt						
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double						
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron					
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
	Location	Refer to Outline Drawing					
Application							
Area classification	Non-Hazardous						
Type of Ex-Protection	Not applicable						
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)						
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		kg		
			B5		kg		
			V1	TJ80PC50	800 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

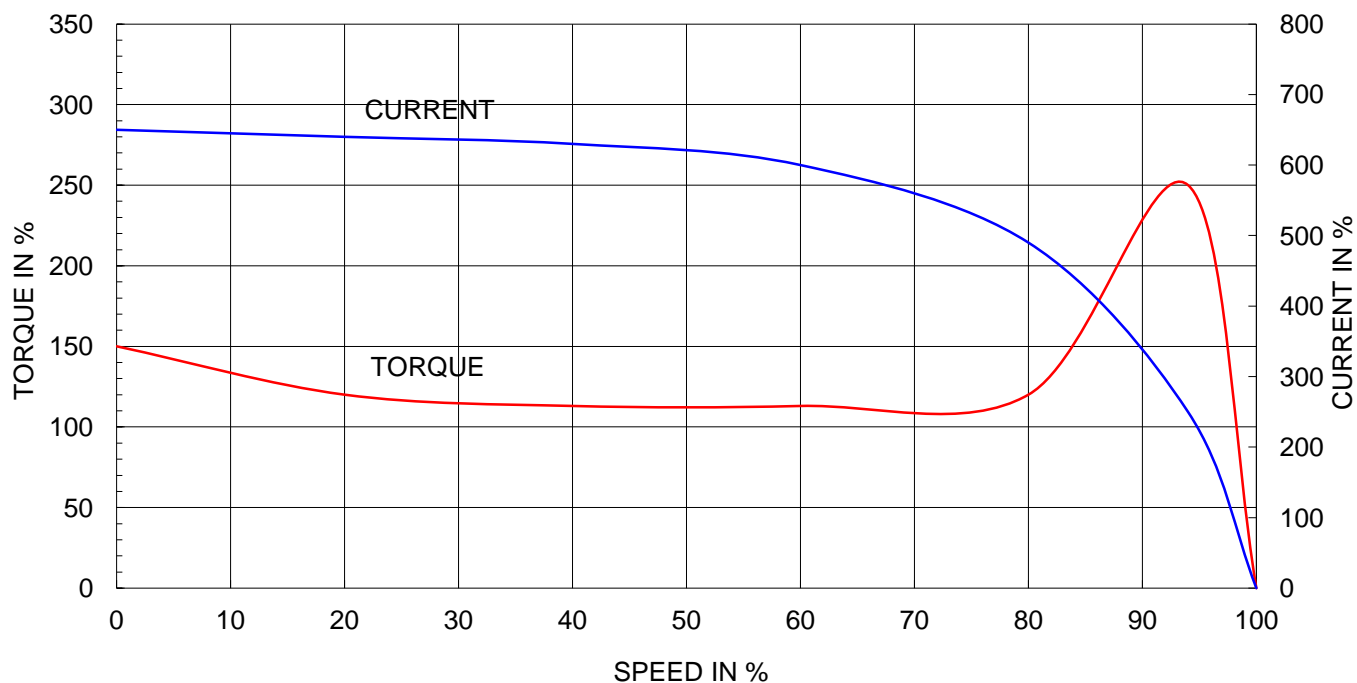
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

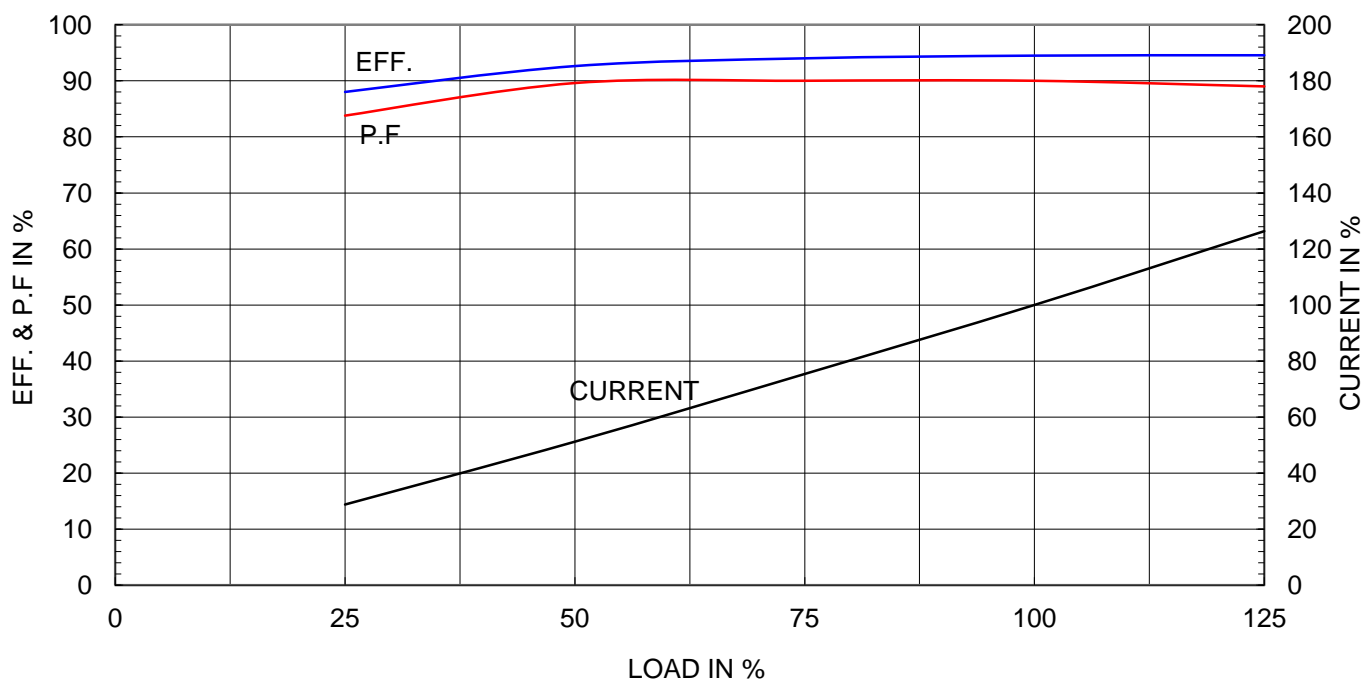
Type	:	HS
Full Load Torque	:	30.0 Kg.m
Motor moment of Inertia (J)	:	2.100 Kg.m ²
Load moment of Inertia (J)	:	12.350 Kg.m ²

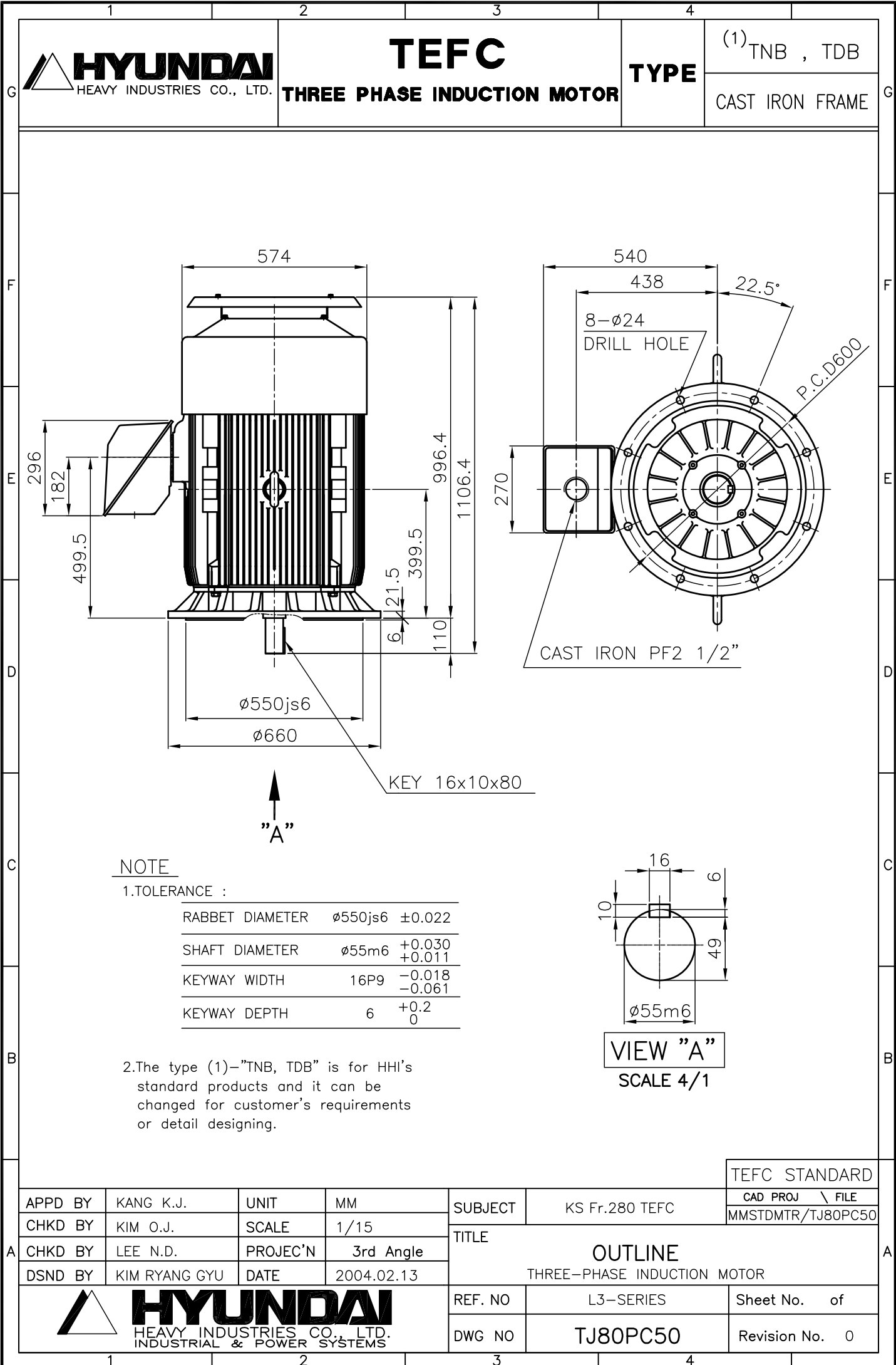
110 kW		2 P		60 Hz	
Speed at Full Load :				3570 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	169.7A	196.5A	339.4A		

SPEED VS TORQUE & CURRENT CURVE

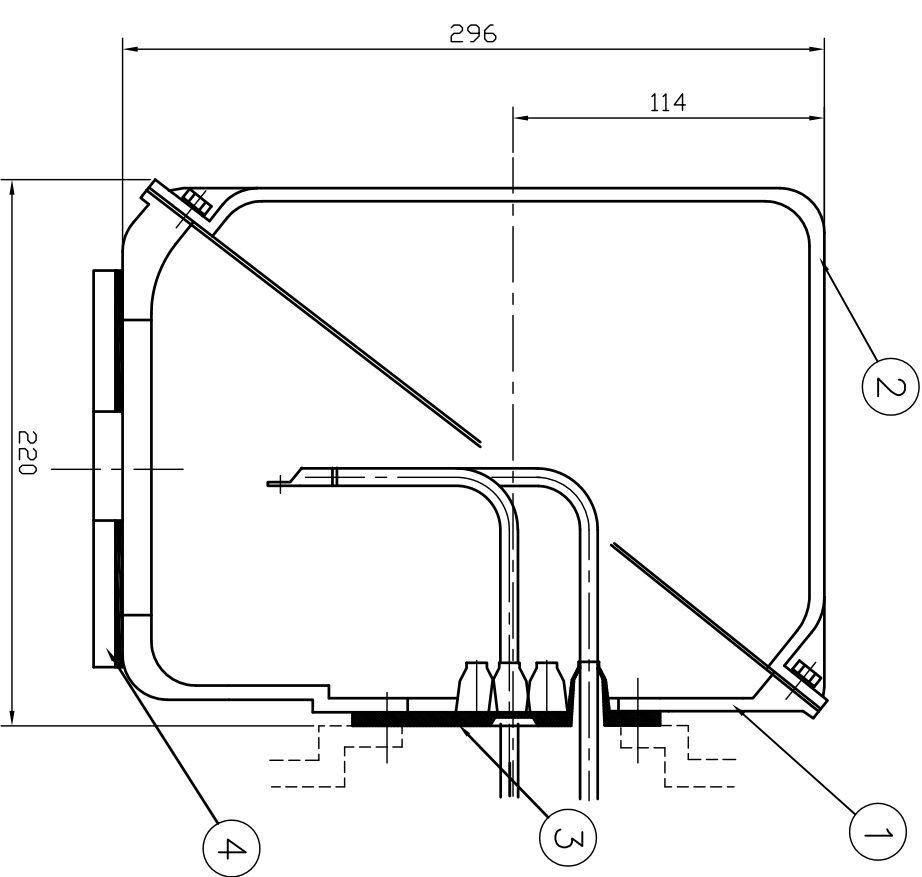
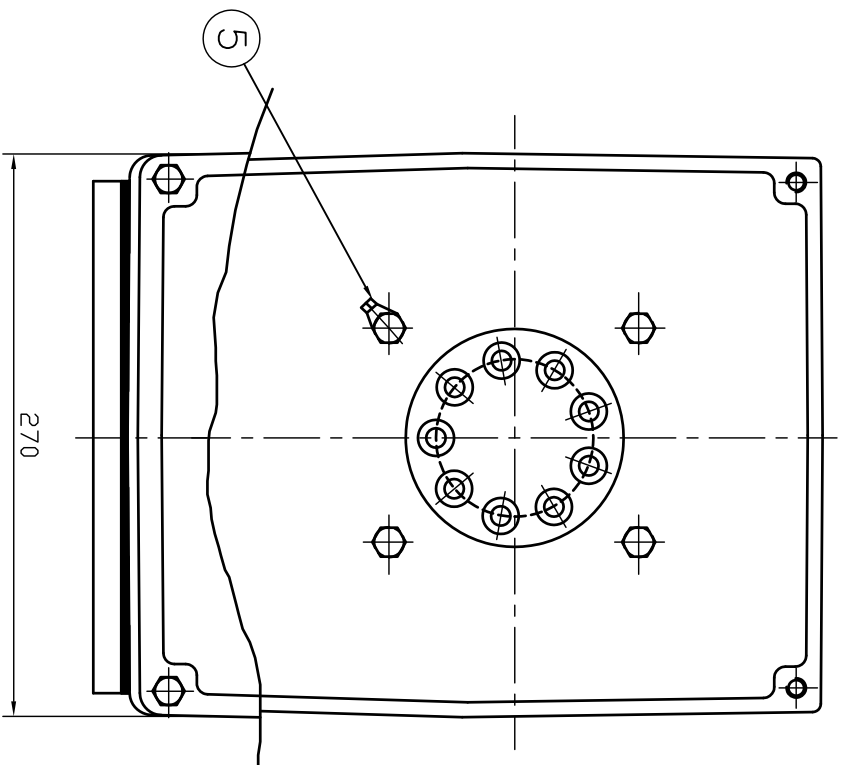


OUTPUT VS EFF., P.F & CURRENT CURVE





				TEFC STANDARD	
APPD BY	KANG K.J.	UNIT	MM	SUBJECT	KS Fr.280 TEFC
CHKD BY	KIM O.J.	SCALE	1/15	TITLE	CAD PROJ \ FILE
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle		MMSTDMTR/TJ80PC50
DSND BY	KIM RYANG GYU	DATE	2004.02.13		
<p>HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS</p>				REF. NO	L3-SERIES
				DWG NO	TJ80PC50
				OUTLINE THREE-PHASE INDUCTION MOTOR	
				Sheet No.	of
				Revision No.	0



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 & 4 (3rd Angle)	TERMINAL BOX ASS'Y		
DSND BY	김헌태	DATE	92.06.05	REF. NO		Sheet No. of
				DWG NO	3M-016882	Revision No.

