

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*	☒ D.O.L ☐ 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	☒ 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 91.8 %				
Motor Location ☒ Indoor ☐ 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	☐ B3 ☐ B5 ☐ V1 ☒ 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		☒ Direct ☐ V-Belt	Moment of Inertia (J)				
Shaft Extension		☒ Single ☐ Double	Load(Max.) 9.050 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 1.053 kg·m²				
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	87 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		TJ5SCC50 520 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

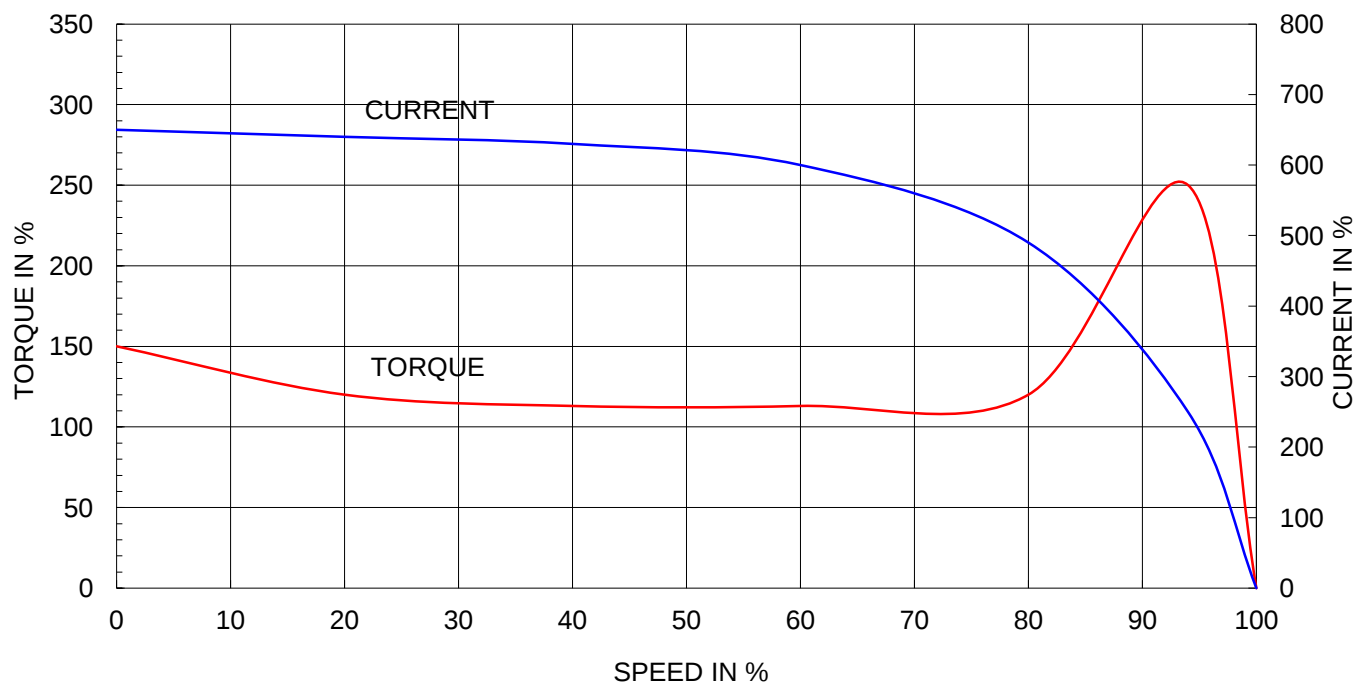
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

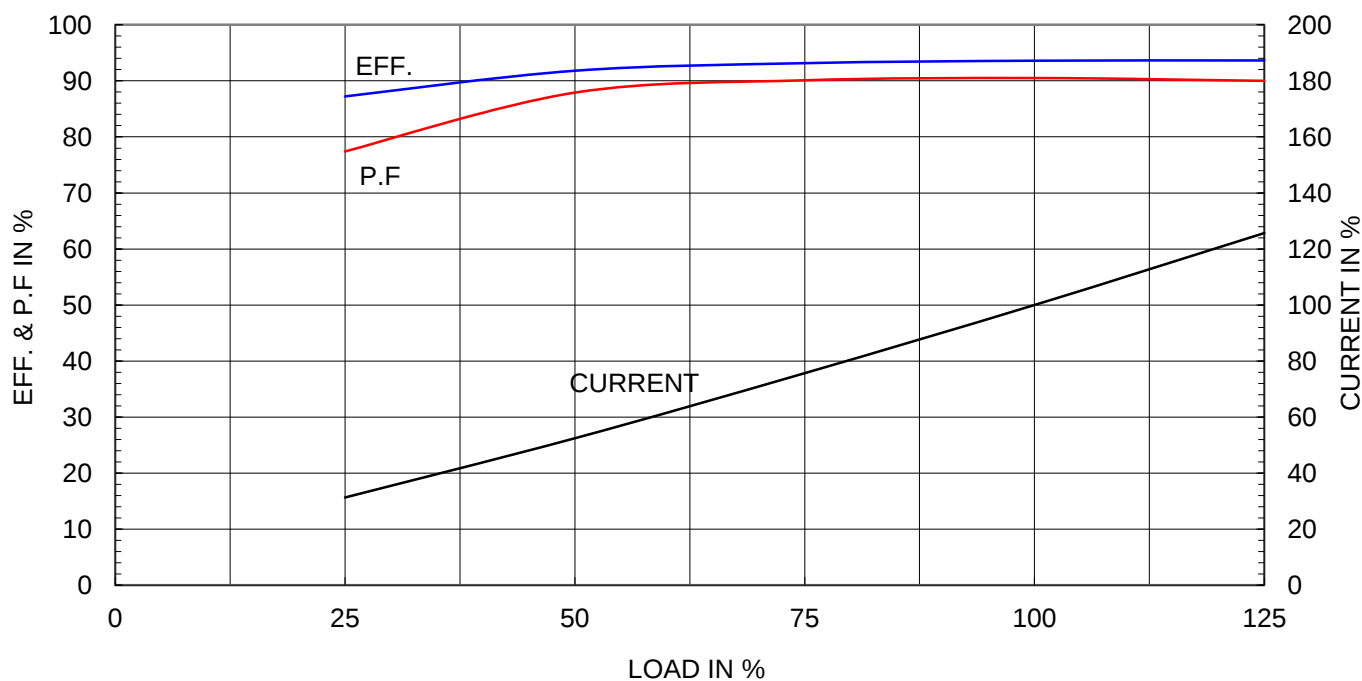
Type	:	HS
Full Load Torque	:	20.5 Kg.m
Motor moment of Inertia (J)	:	1.053 Kg.m ²
Load moment of Inertia (J)	:	9.050 Kg.m ²

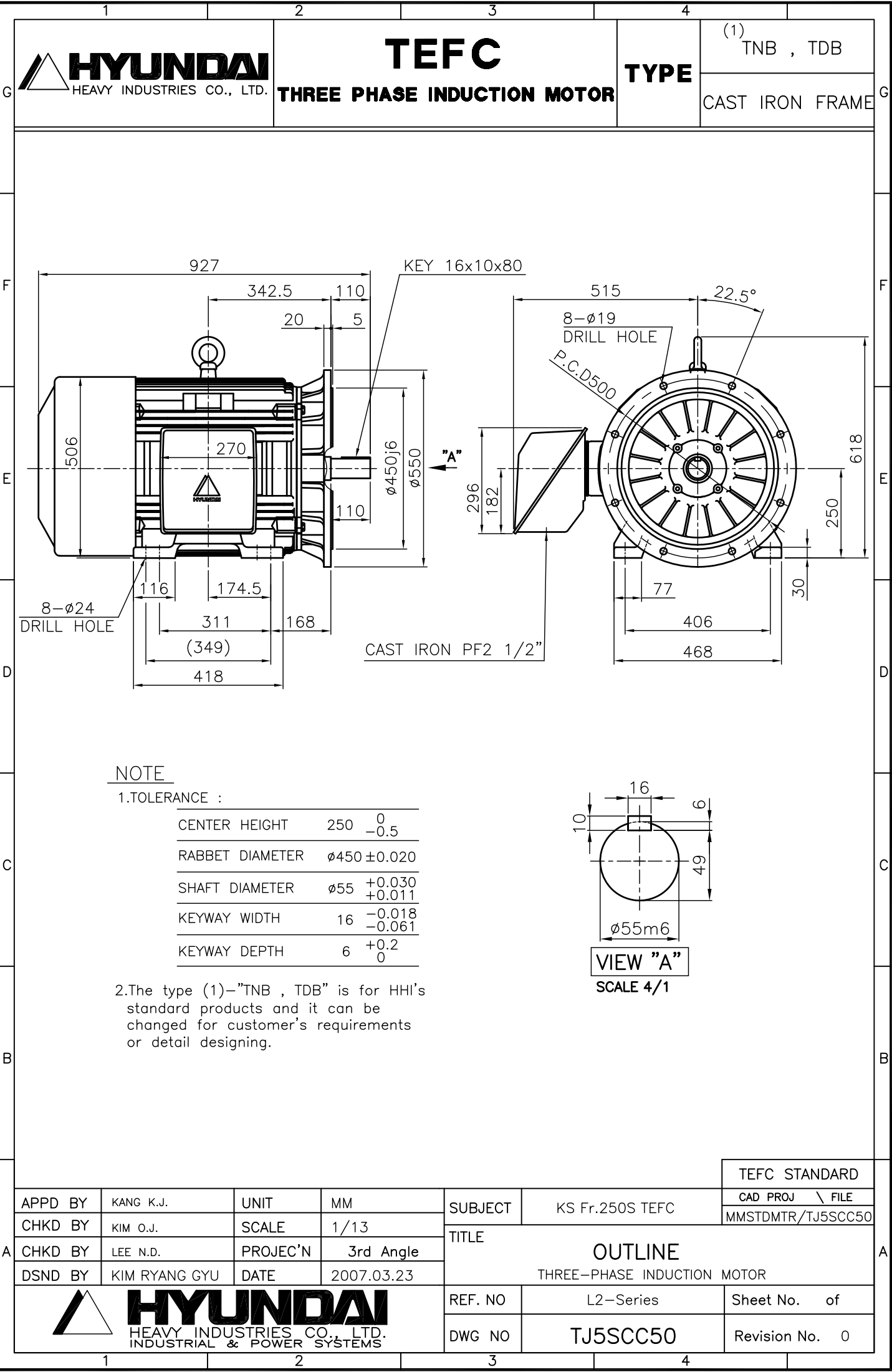
75 kW		2 P		60 Hz	
Speed at Full Load :				3570 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	116.2A	134.5A	232.4A		

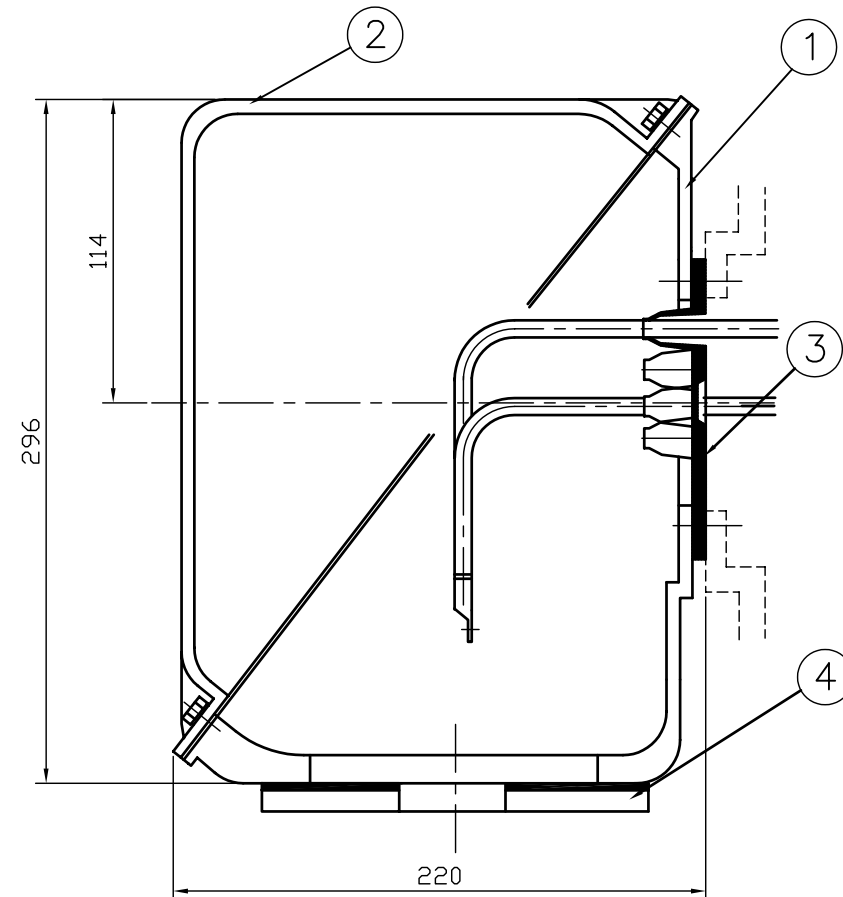
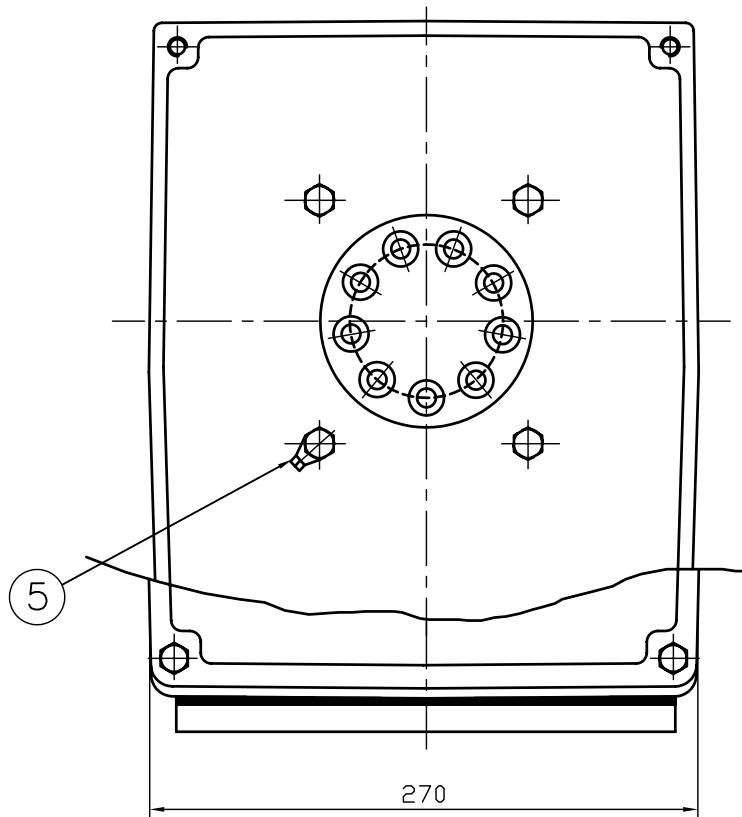
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE







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 FILE	
Q.P. CHK	주 영 겅	SCALE	NONE	TITLE	(CAST IRON)	T-BOX-M \ 3R016882	
CHKD BY	권 오 철	PROJEC'N	3 각법 (3rd Angle)		TERMINAL BOX ASS'Y		
DSND BY	김 현 태	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						