

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	280LL	Rated Output	160 kW	214 HP	
Type	HS-160/6	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	254.0 A	294.1 A
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	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	☒ Indoor ☐ 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	0.842	
Duty Type	Continuous (S1)		75% Load	0.860	
Service Factor	1.15		100% Load	0.870	
Mounting	☐ B3 ☐ B5 ☐ V1 ☒ B3/B5	Speed at Full Load	1185 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6318C3 / 6316C3	Full Load	131.5 kg·m	
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor**	170 %	
External Thrust	Not applicable		Breakdown**	230 %	
Coupling Method	☒ Direct ☐ V-Belt	Moment of Inertia (J)			
Shaft Extension	☒ Single ☐ Double	Load(Max.)	224.250 kg·m²		
Terminal	Main	Motor	7.288 kg·m²		
Box	Aux.	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	Cold 3 times		
Type of Ex-Protection	Not applicable		Hot 2 times		
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)	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	TJ8XCP51	1135	kg
Main T-Box Ass'y		3M-016882		

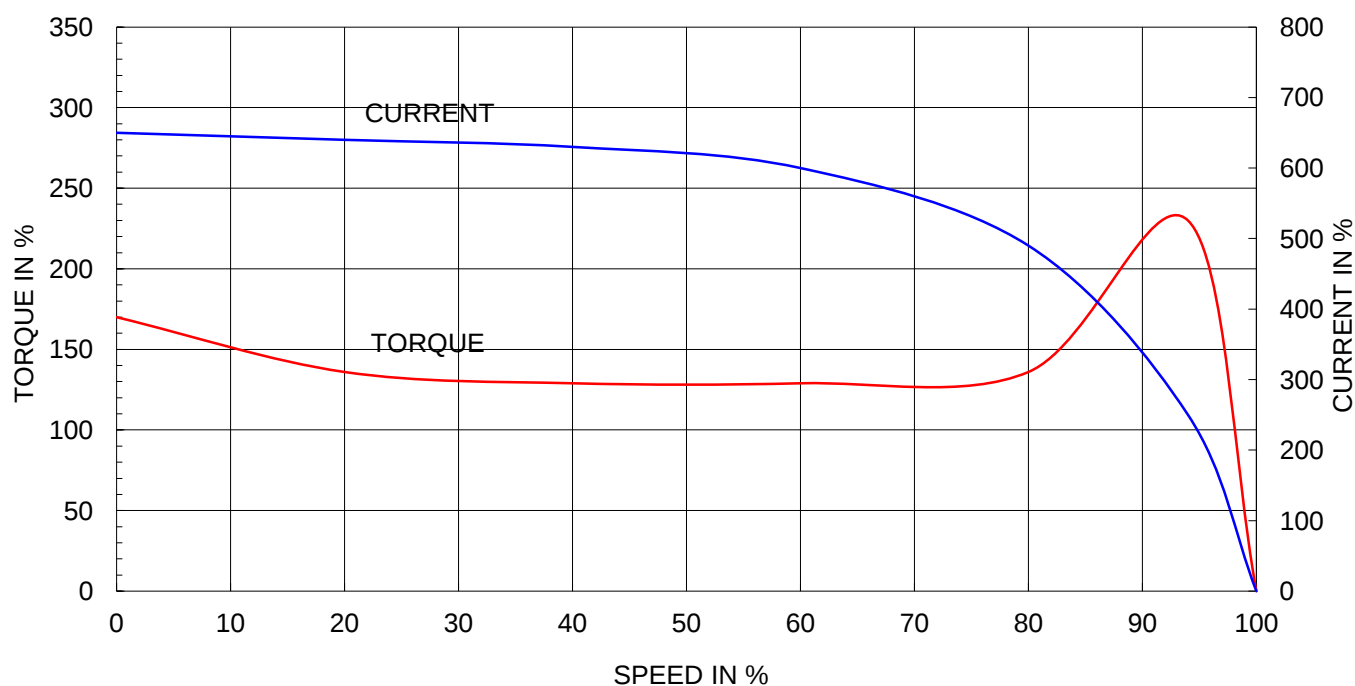
SPARE PARTS	REMARK		High Efficiency		
	*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
	Date	DSND	CHKD	CHKD	APPD
	2010-05-28	R.G. KIM	O.J. KIM	J.H. KIM	K.J. KANG

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.

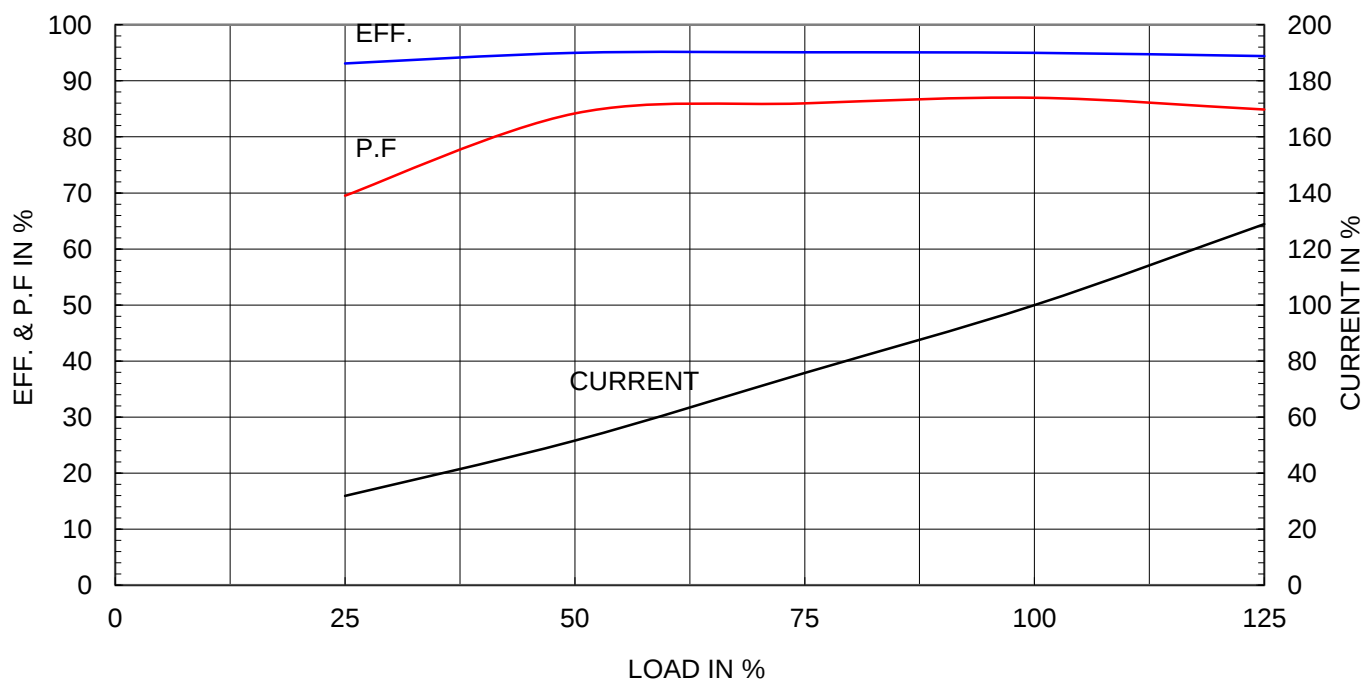
Type	:	HS
Full Load Torque	:	131.5 Kg.m
Motor moment of Inertia (J)	:	7.288 Kg.m ²
Load moment of Inertia (J)	:	224.250 Kg.m ²

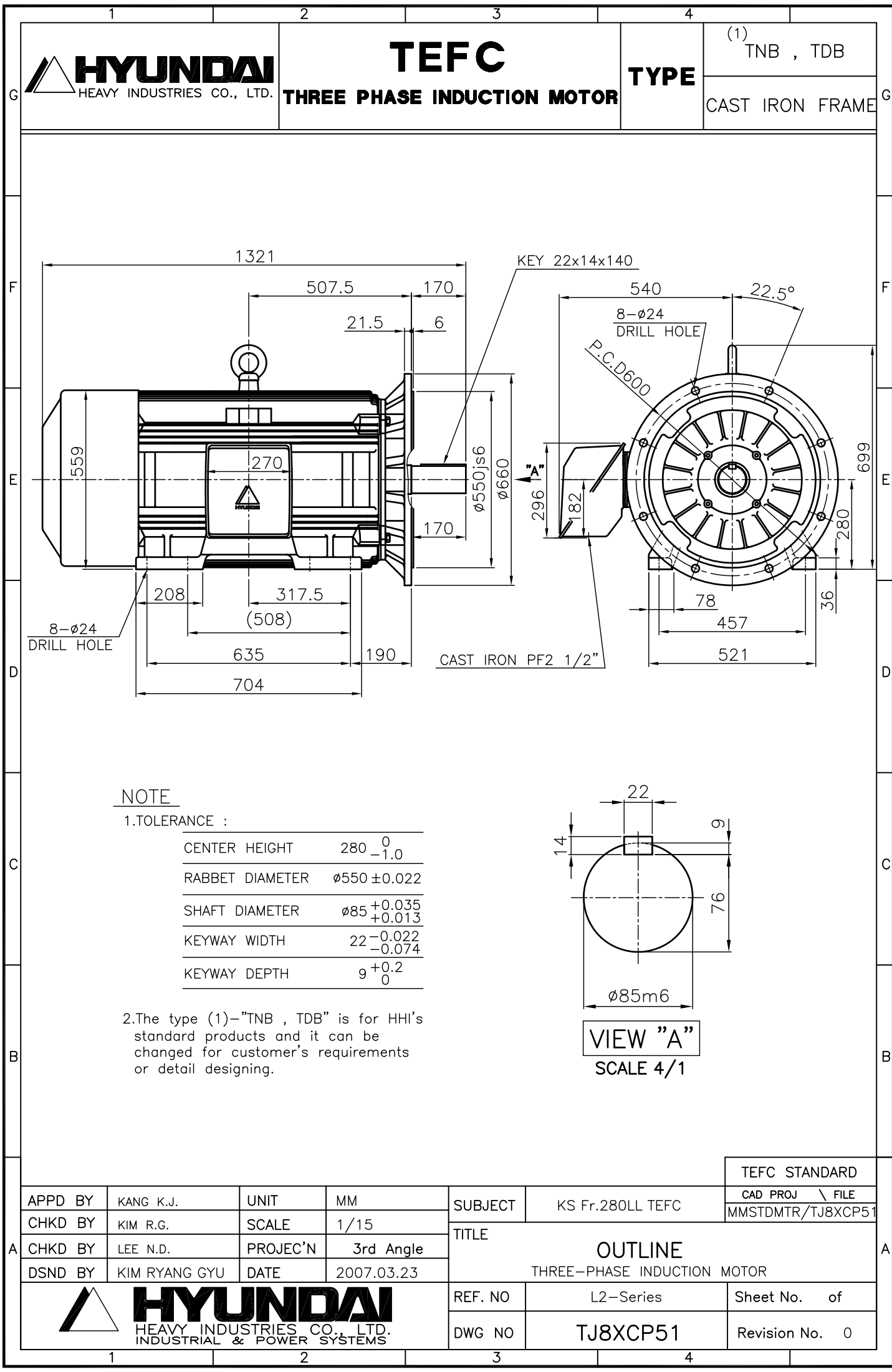
160 kW		6 P		60 Hz	
Speed at Full Load :				1185 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	254.0A	294.1A	508.0A		

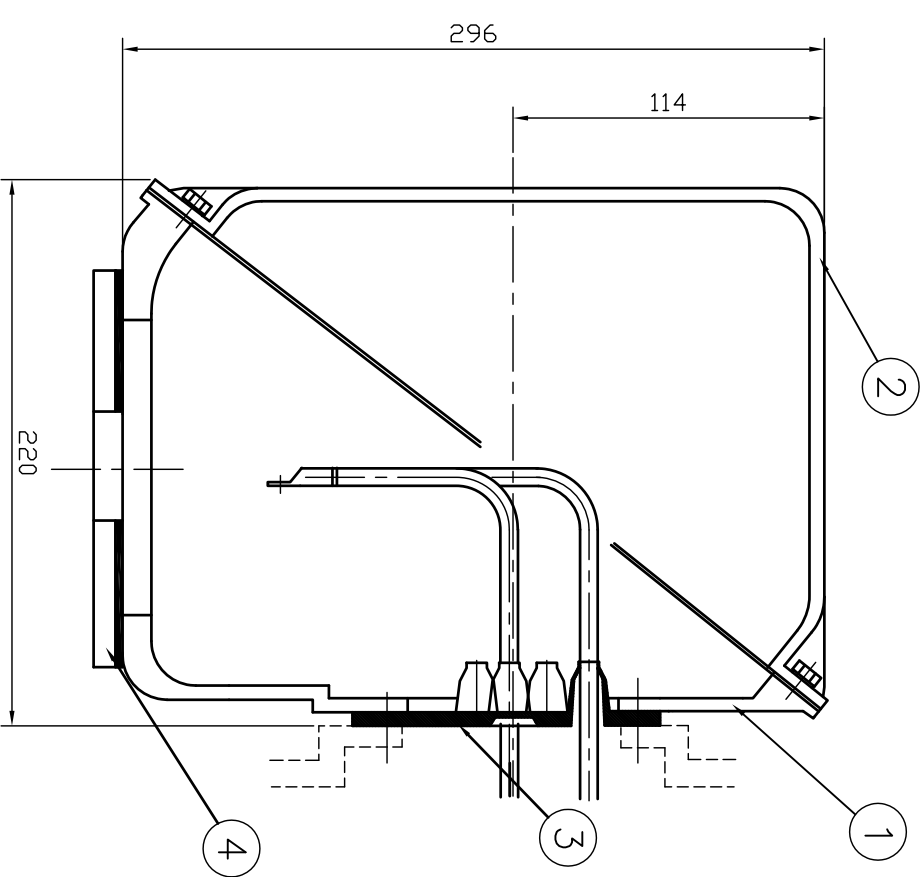
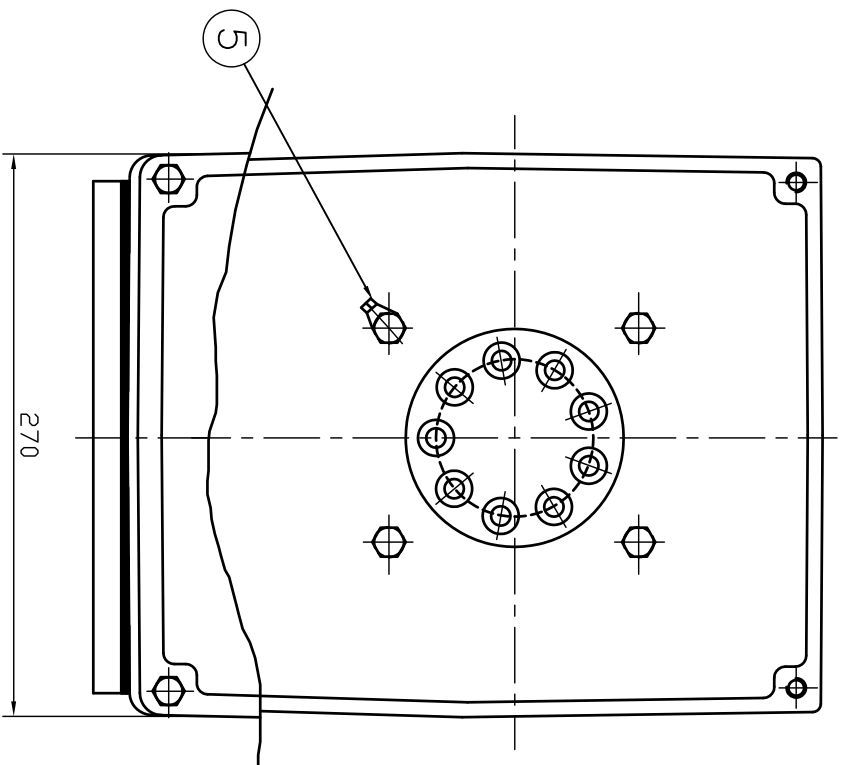
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE







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
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK NO.
APP'D BY	김진오	UNIT	MM			
Q.P. CHK	주영걸	SCALE	NONE			
CHK'D BY	권오철	PROJEC'T	3번(3rd Angle)			
DSND BY	김헌태	DATE	92.06.05			
				SUBJECT	HLA6 - 250,280Fr.	CAD PROJ. & FILE &
				TITLE	(CAST IRON)	T-BOX-M \ 35016882
				REF. NO	3M-016882	Sheet No. of
				DWG NO	3M-016882	Revision No.

