

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	132S		Rated Output	5.5 kW 7.5 HP			
Type	HS		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	9.6 A 11.1 A 19.2 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	700 %	700 % 700 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F			80 deg. C				
Motor Location	☒ Indoor ☐ Outdoor		50% Load 85.8 %				
Altitude	Less than 1000 meter		75% Load 88.0 %				
Relative Humidity	Less than 80 %		100% Load 88.5 %				
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)				
Duty Type	Continuos (S1)		50% Load 0.737				
Service Factor	1.15		75% Load 0.810				
Mounting	☐ B3 ☐ B5 ☐ V1 ☒ B3/B5		100% Load 0.850				
Bearing	Type	Anti-Friction	Speed at Full Load				
	DE/N-DE	6208ZZC3 / 6208ZZC3	3530 r.p.m				
	Lubricant	Grease(Polyrex-EM)	Torque				
External Thrust	Not applicable		Full Load 1.5 kg·m				
Coupling Method	☒ Direct ☐ V-Belt		Locked-rotor** 190 %				
Shaft Extension	☒ Single ☐ Double		Breakdown** 300 %				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Moment of Inertia (J)				
	Aux.	☐ Yes ☒ No	Load(Max.) 1.250 kg·m²				
	Location	Refer to Outline Drawing	Motor 0.014 kg·m²				
Application			Sound Pressure Level (No-load & mean value at 1m from motor)				
Area classification	Non-Hazardous		76 dB(A)				
Type of Ex-Protection	Not applicable		Vibration 1.6 mm/sec (r.m.s)				
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		Permissible number of consecutive starts				
			Cold 3 times				
			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	227B2040AB03	69 kg		
			Main T-Box Ass'y	227B8004CB			
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
			2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM

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.

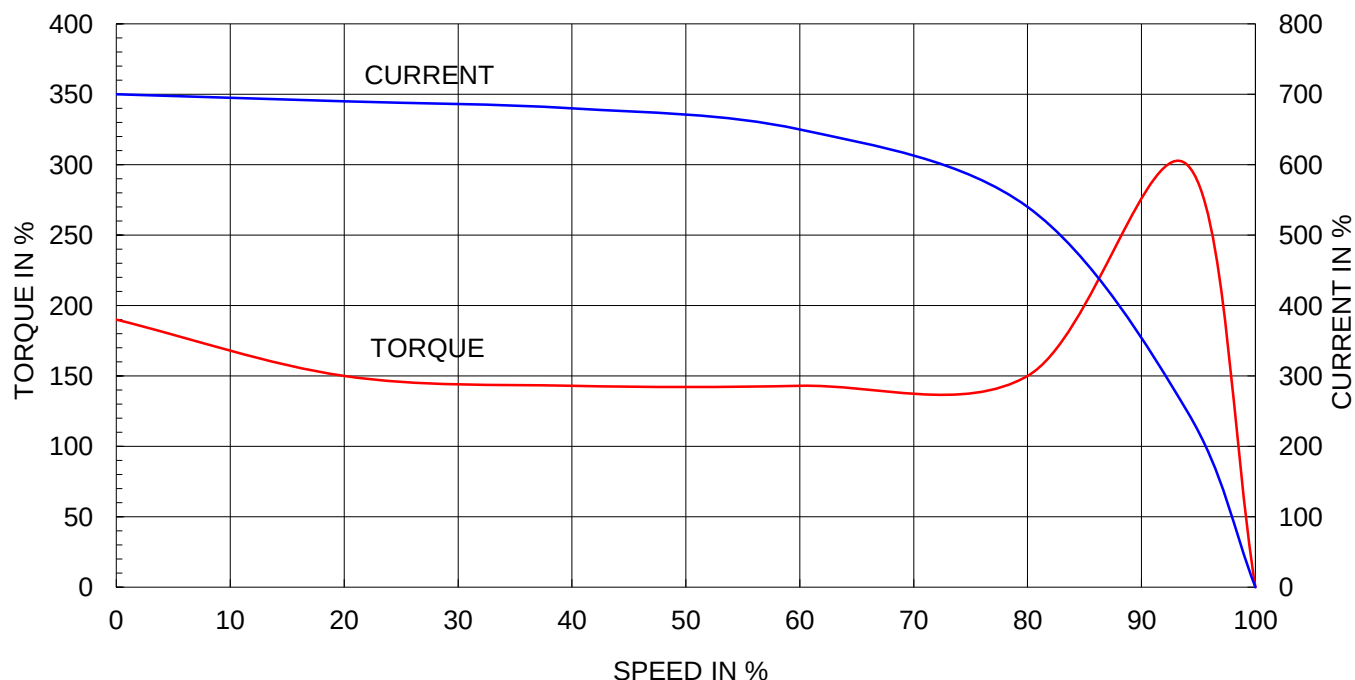
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

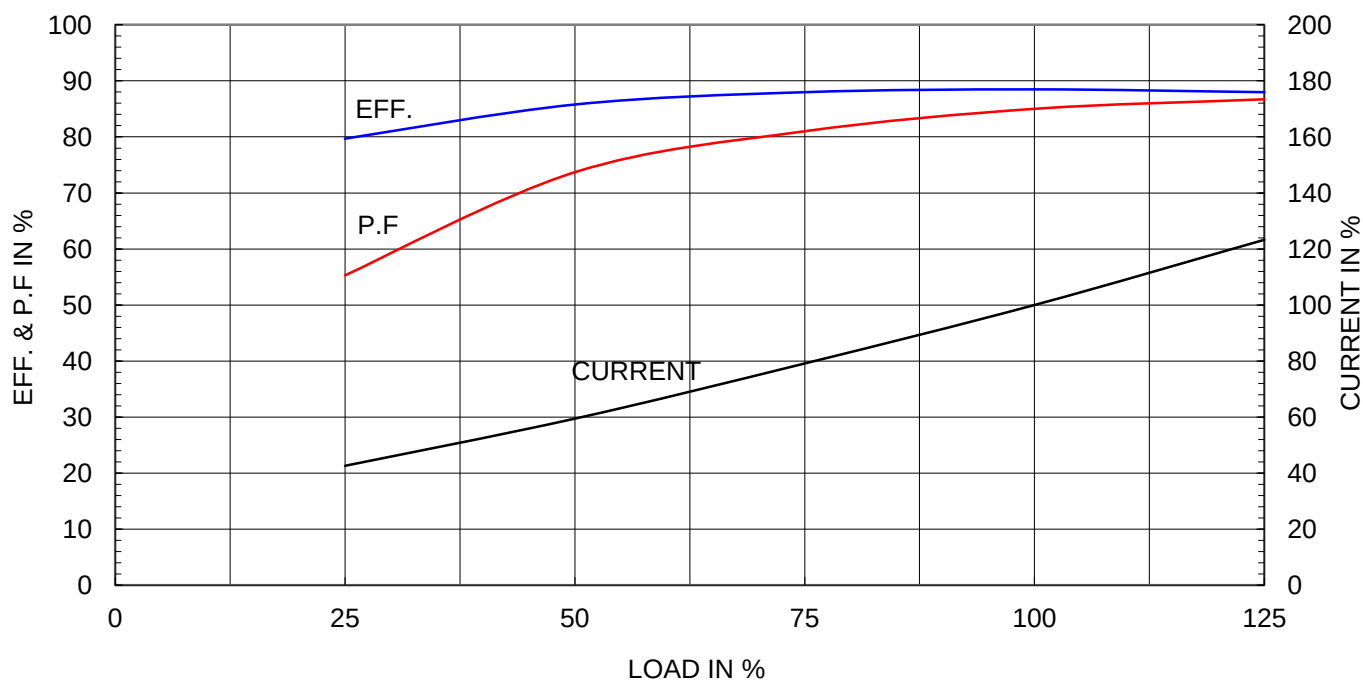
Type	:	HS
Full Load Torque	:	1.5 Kg.m
Motor moment of Inertia (J)	:	0.014 Kg.m ²
Load moment of Inertia (J)	:	1.250 Kg.m ²

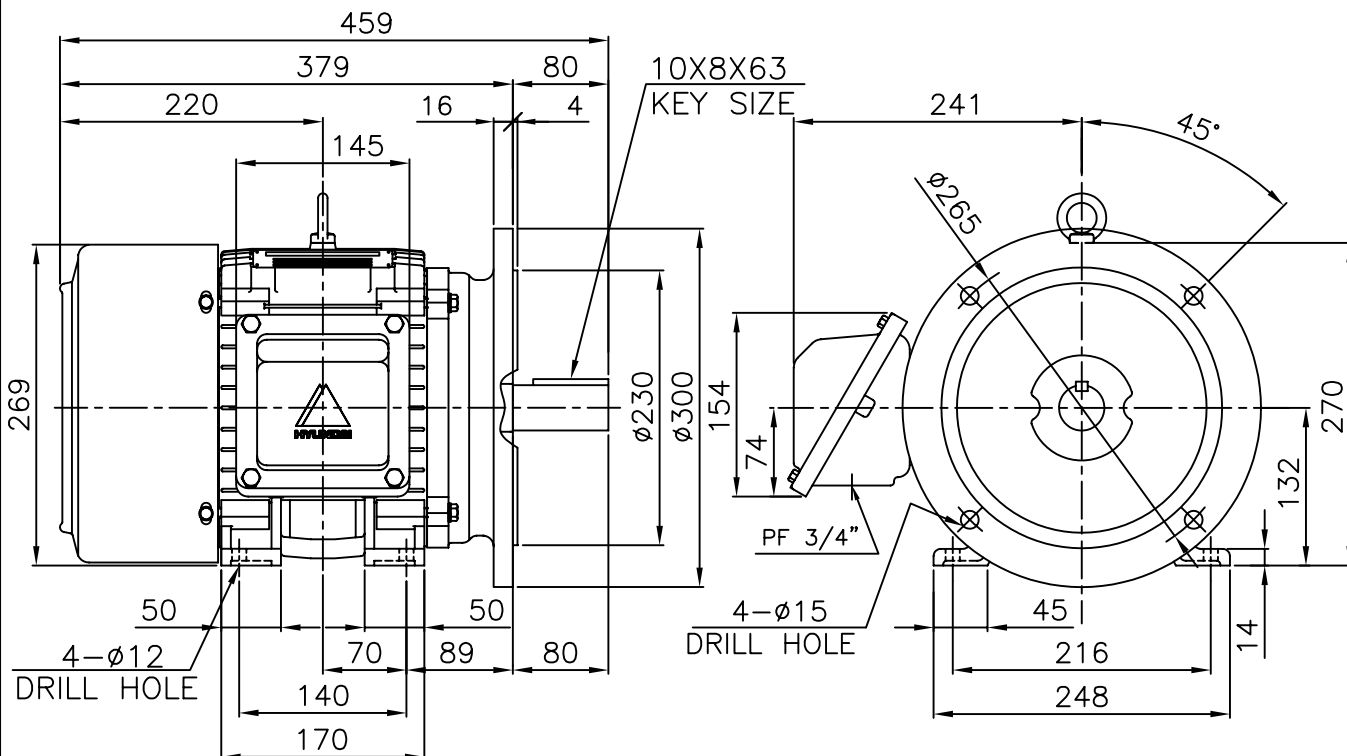
5.5 kW		2 P		60 Hz	
Speed at Full Load :				3530 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	9.6A	11.1A	19.2A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

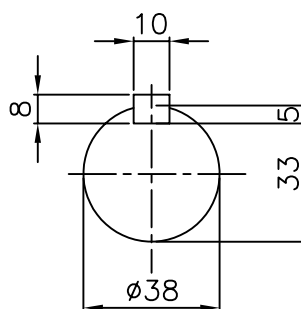




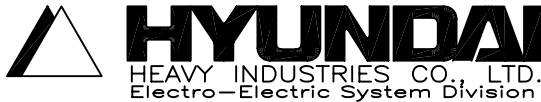
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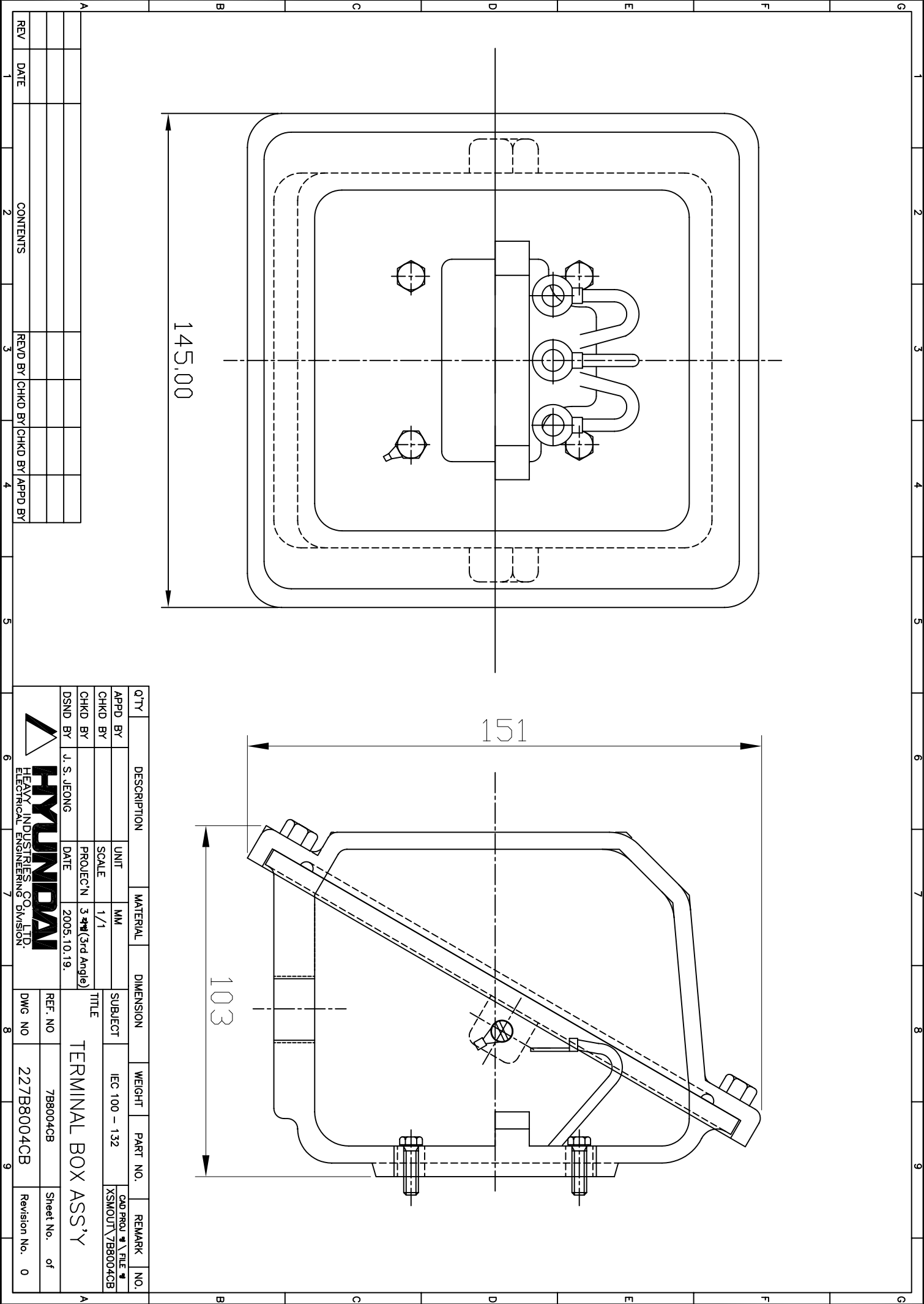
1.TOLERANCE :

CENTER HEIGHT	132 ⁰ _{-0.5}
BASE HOLES	$\phi 12^{+0.43}$ ₀
FLANGE HOLES	$\phi 15^{+0.43}$ ₀
RABBET DIAMETER	$\phi 230^{+0.014}$ _{-0.011}
SHAFT DIAMETER	$\phi 38^{+0.018}$ _{+0.002}
KEYWAY WIDTH	10 ⁰ _{-0.036}
KEYWAY DEPTH	5 ⁰ _{+0.2}



*CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 132S	CAD PROJ \ FILE
CHKD BY	Y. S. KIM	SCALE	1/6.5			XSDNKS\B2040AB03
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	I. K. KIM	DATE	2002.10.29			
				REF. NO	B2040AB03	Sheet No. of
				DWG NO	227B2040AB03	Revision No. 0



QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	UNIT	MM	SUBJECT	IEC 100 - 132	CAD PROJ \FILE		
CHKD BY	SCALE	1/1			XSMOUT\7B8004CB		
CHKD BY	PROJEC'N	3-4#(3rd Angle)	TITLE				
DSND BY	DATE	2005.10.19.	TERMINAL BOX ASS'Y				
J. S. JEONG			REF. NO	7B8004CB	Sheet No.	of	
HYUNDAI			DWG NO	227B8004CB	Revision No.	0	
HEAVY INDUSTRIES CO., LTD.							
ELECTRICAL ENGINEERING DIVISION							