

# AC INDUCTION MOTOR DATA SHEET

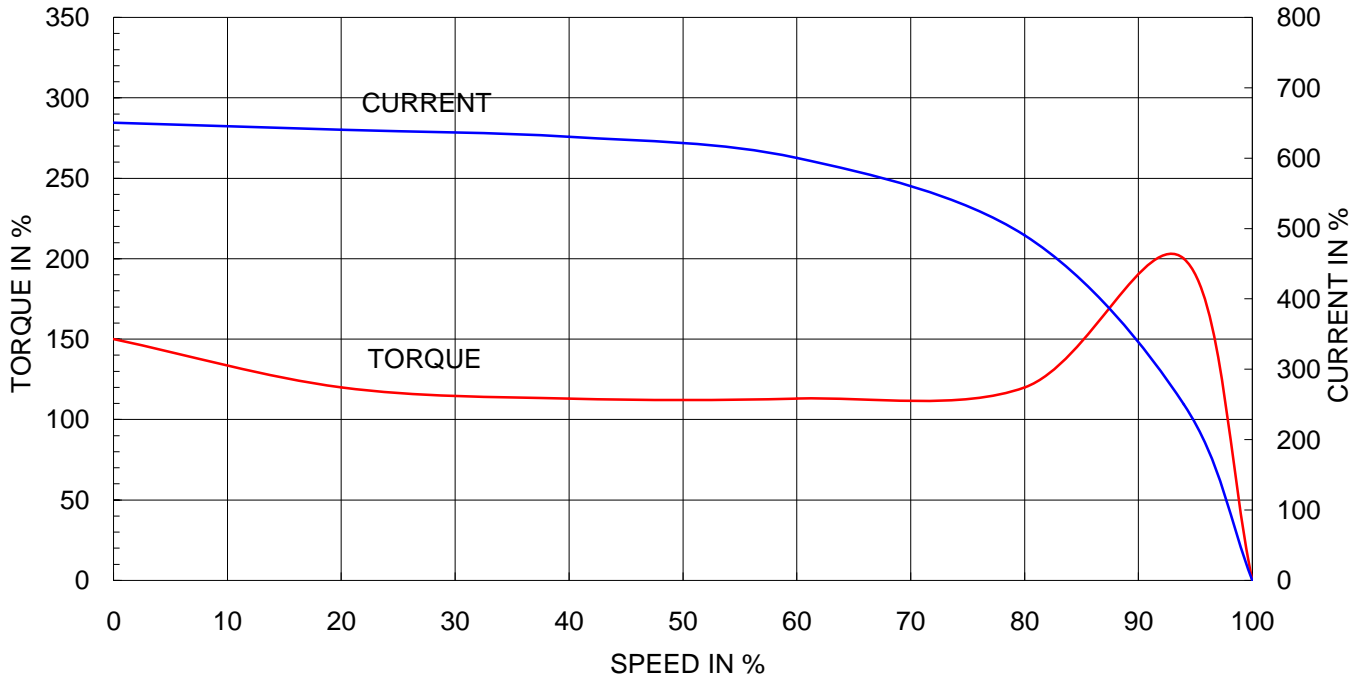
Model No.or RFQ No.		Item No.		Rev. No. [ 0 ]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	200LL		Rated Output	45 kW 60 HP			
Type	HK-XP		Number of Poles	2			
Enclosure(Protection)	Explosion Proof ( IP55 )		Rotor Type	Squirrel Cage			
Method of 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	69.8 A 80.8 A 139.5 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    92.7 %				
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load    93.1 %				
Altitude    Less than 1000 meter			100% Load    93.0 %				
Relative Humidity    Less than 80 %			Power Factor(p.u)				
Ambient Temp.    40 deg. C (Max.)			50% Load    0.895				
Duty Type    Continuous ( S1 )			75% Load    0.910				
Service Factor    1.00			100% Load    0.910				
Mounting <input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5			Speed at Full Load    3560 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6313ZC3 / 6211ZC3		Full Load	12.3 kg·m		
Lubricant    Grease(Gadus S2 V 100 2)			Locked-rotor**	150 %			
External Thrust    Not applicable			Breakdown**	200 %			
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.)    4.750 kg·m <sup>2</sup>				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor    0.208 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			87 dB(A)				
Application			Vibration    2.2 mm/sec (r.m.s)				
Area classification    Hazardous			Permissible number of consecutive starts				
Type of Ex-Protection    Ex d II T4			Cold    3 times				
Applicable Standard    KS,IEC			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	227B1626XI9	400 kg		
			V1		kg		
			B3/B5	0	0 kg		
			Main T-Box Ass'y	227B1470LA			
SPARE PARTS			REMARK				
			High Efficiency				
			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.

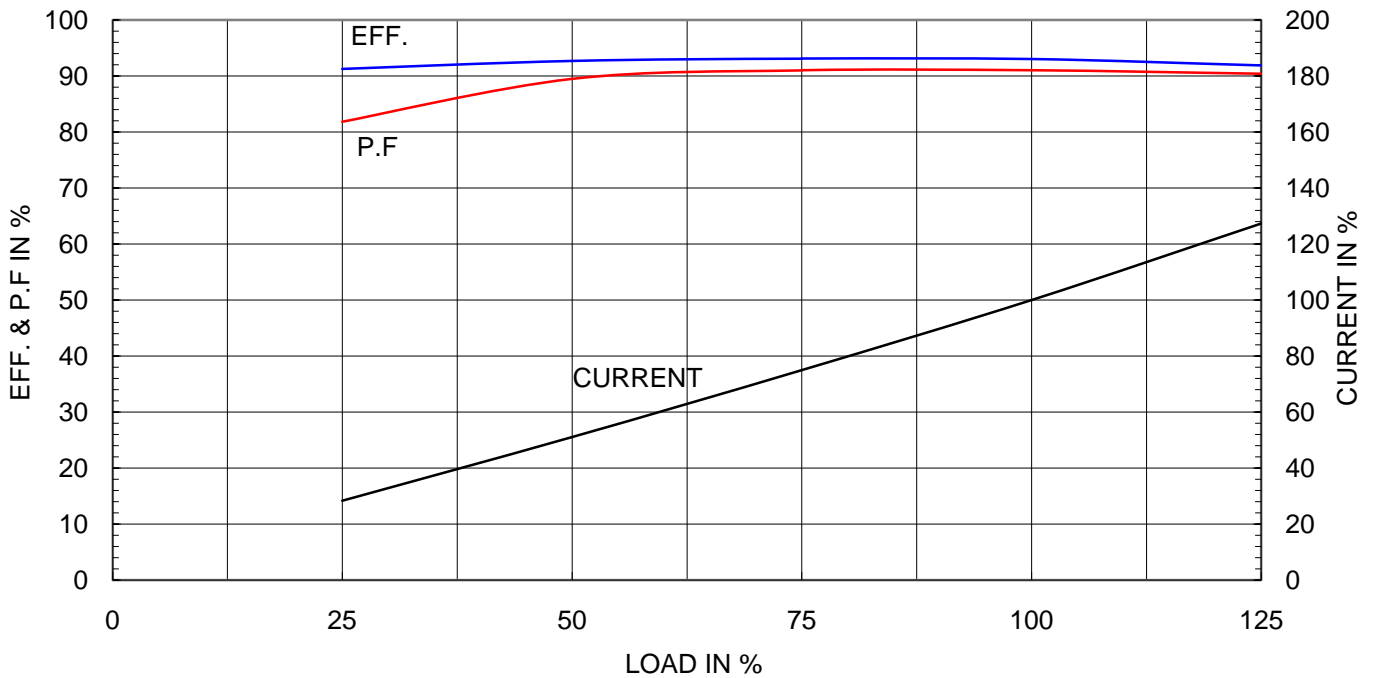
Type	:	HL-XP
Full Load Torque	:	12.3 Kg.m
Motor moment of Inertia (J)	:	0.208 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	4.750 Kg.m <sup>2</sup>

45 kW	2 P	60 Hz	
Speed at Full Load :		3560 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	69.8A	80.8A	139.5A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





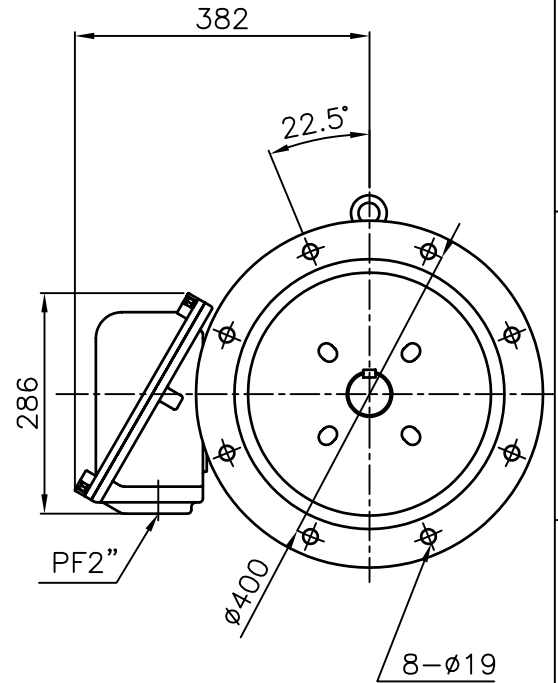
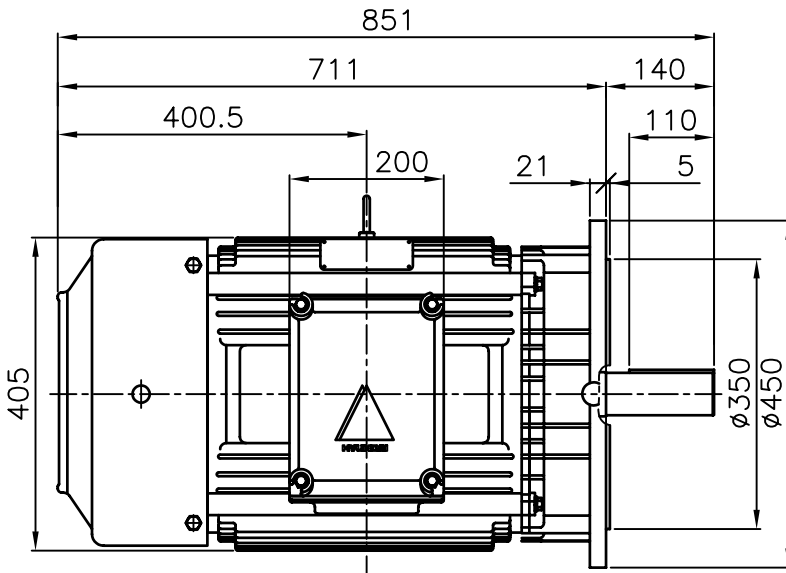
# TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HKS , HK

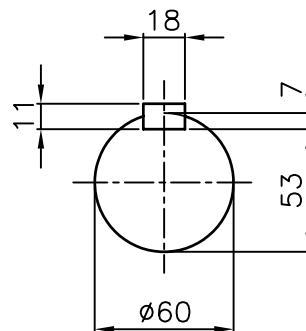
CAST IRON FRAME



NOTE

1.TOLERANCE :

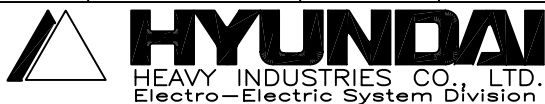
FLANGE HOLES	$\phi 19 \begin{smallmatrix} +0.43 \\ -0. \end{smallmatrix}$
RABBET DIAMETER	$\phi 350 \begin{smallmatrix} +0.018 \\ -0.018 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 60 \begin{smallmatrix} +0.030 \\ +0.011 \end{smallmatrix}$
KEYWAY WIDTH	$18 \begin{smallmatrix} +0 \\ -0.043 \end{smallmatrix}$
KEYWAY DEPTH	$53 \begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$



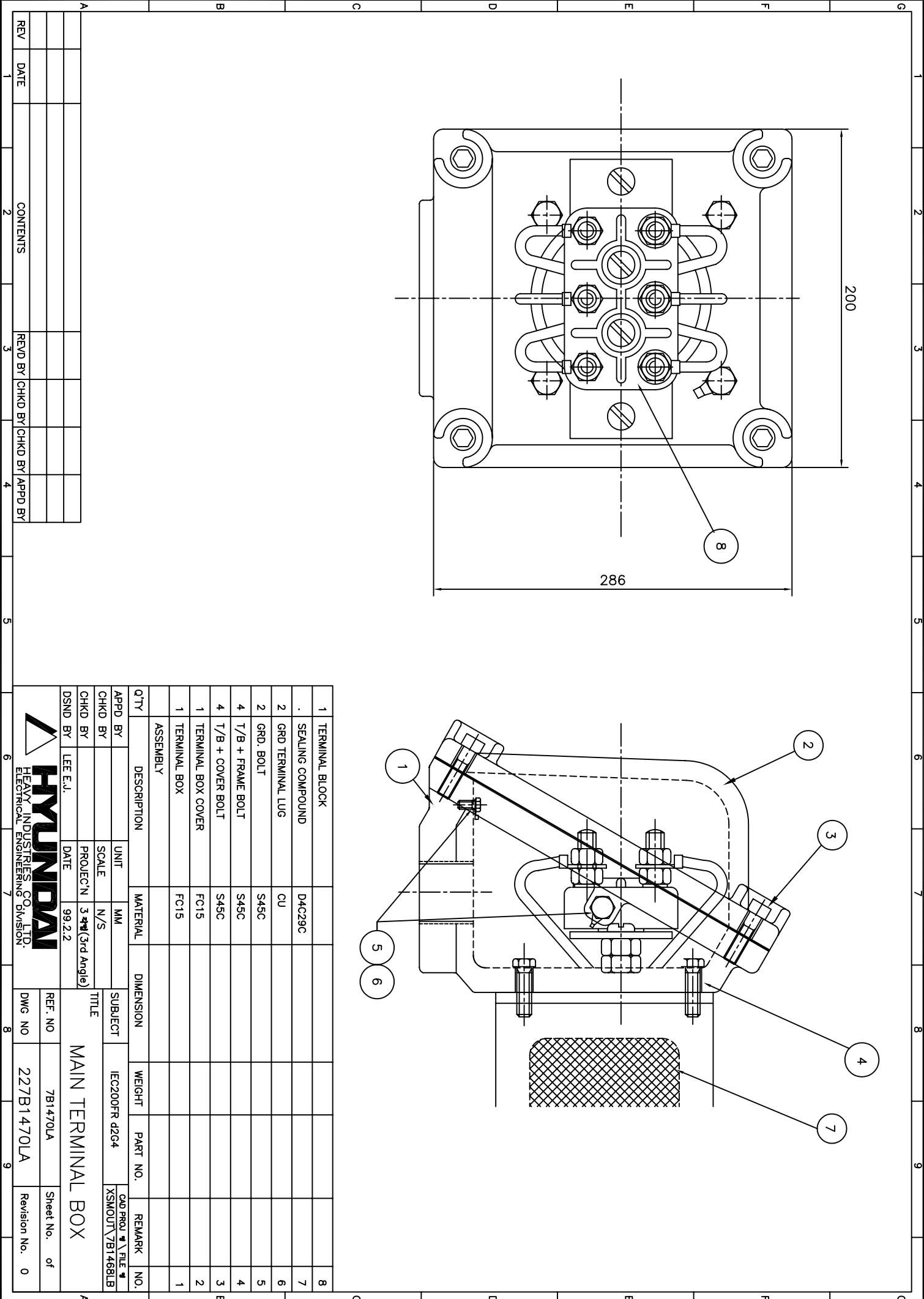
APPD BY	KIM.Y.S	UNIT	mm
CHKD BY	---	SCALE	1/10
CHKD BY	KO.S.H	PROJEC'N	3rd Angle
DSND BY	LEE KWANG SOO	DATE	2001. 3. 9

SUBJECT	XSD KS 200LL 4,6P	CAD PROJ \ FILE
		XSDNKS\227B1626X110

TITLE	OUTLINE	
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REF. NO	227B1626X110	Sheet No. of
DWG NO	227B1626X110	Revision No. 0



REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
1	TERMINAL BLOCK	D4C29C					8
	SEALING COMPOUND	CU					7
2	GRD TERMINAL LUG	S45C					6
2	GRD. BOLT	S45C					5
4	T/B + FRAME BOLT	S45C					4
4	T/B + COVER BOLT	S45C					3
1	TERMINAL BOX COVER	FC15					2
1	TERMINAL BOX ASSEMBLY	FC15					1

APP'D BY	UNIT	MM	SUBJECT	IEC200FR 42G4	CAD PROJ \FILE
CHK'D BY	SCALE	N/S	TITLE		XSMOUT\7B1468LB
CHK'D BY	PROJEC'N	3*45 (3rd Angle)	MAIN TERMINAL BOX		
DSND BY	DATE	99.2.2	REF. NO	7B1470LA	Sheet No. of
		LEE E.J.	DWG NO	227B1470LA	Revision No. 0

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ELECTRICAL ENGINEERING DIVISION