

HA3000 20-80 kVA UNINTERRUPTIBLE POWER SYSTEM INSTALLATION DRAWINGS

This package contains installation drawings for the HA32A UPS Cabinet, the HA32B UPS Battery Cabinet, the HA32C/D/E UPS Auxiliary Cabinet, the HA32J/K UPS Distribution Cabinet, the HA320-AA/AB Remote Status Panel, the HA320-A3 Remote Alarm Panel, and the HA32D/F UPS CSA Cabinet.

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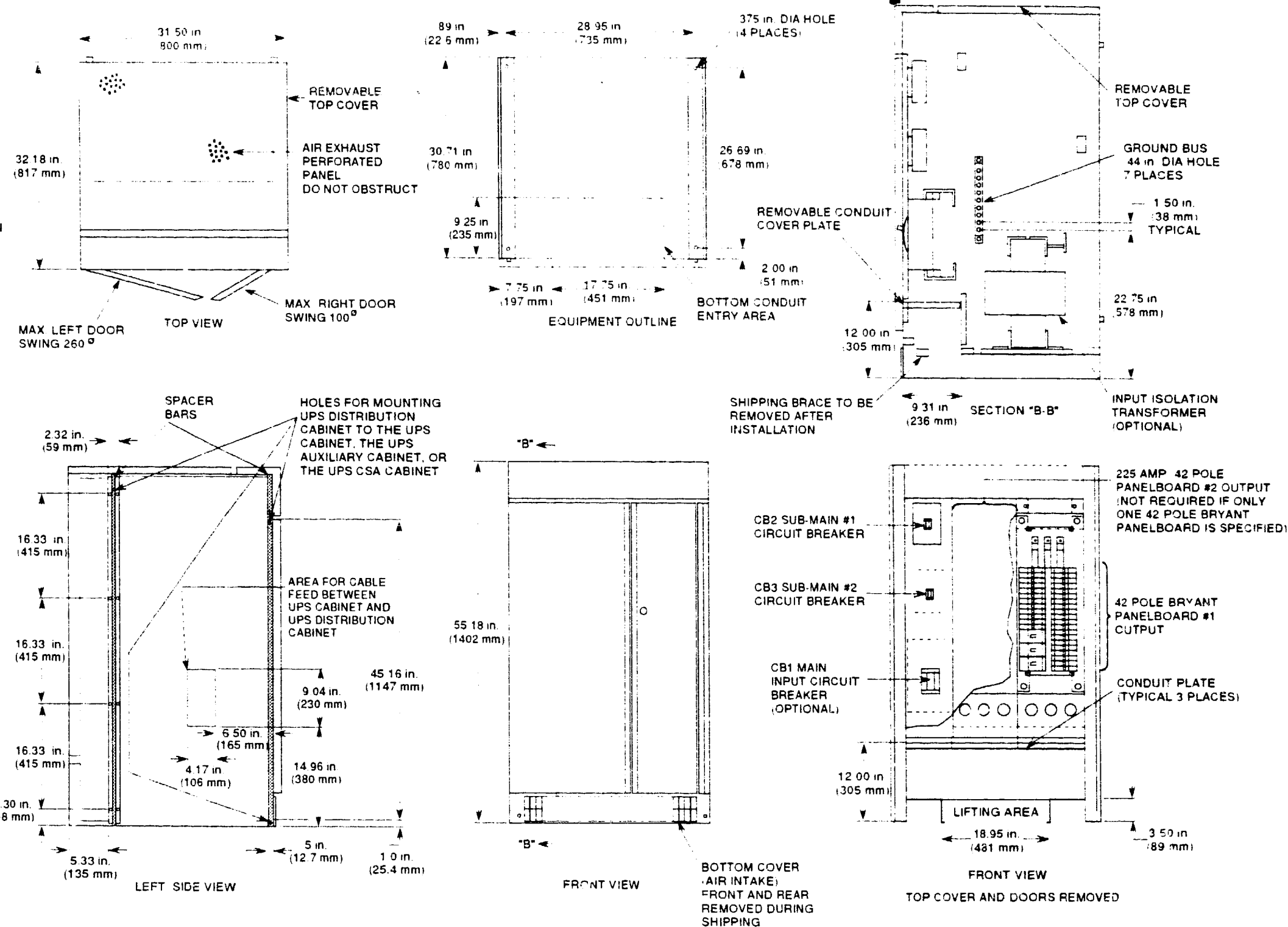
NOTES

- ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE CABINET. EXCLUDING DOOR LOCKS AND ALL HARDWARE DIMENSIONS IN PARENTHESIS ARE METRIC.
- OPTIMUM RECOMMENDED OPERATING TEMPERATURE: 77 DEGREES F (25 DEGREES C)
- UPS DISTRIBUTION CABINET MUST BE INSTALLED AND BOLTED TO THE RIGHT SIDE OF THE HA32A UPS CABINET OR THE UPS AUXILIARY CABINET (IF PROVIDED).
- DIGITAL WILL PROVIDE ALL POWER AND CONTROL CABLES BETWEEN THE HA32A UPS CABINET AND THE UPS DISTRIBUTION CABINET. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO CONNECT THE CABLES.
- SIDE PANELS ARE NOT PROVIDED WITH UPS DISTRIBUTION CABINET. REMOVE SIDE PANEL FROM HA32A UPS CABINET AND ATTACH TO THE RIGHT SIDE OF THE UPS DISTRIBUTION CABINET.
- ALL EXTERNAL WIRING IS SUPPLIED AND CONNECTED BY CUSTOMER.
- THE OVERALL CENTER OF GRAVITY WITH INPUT ISOLATION TRANSFORMER OPTION INSTALLED, USING LOWER LEFT CORNER OF THE UPS DISTRIBUTION CABINET AS ZERO REFERENCE, IS LOCATED APPROXIMATELY AT 15.75 INCHES (400 mm) TO THE RIGHT, 18.00 INCHES (457 mm) DEEP, AND 18.00 INCHES (457 mm) HIGH.
- ONLY UPS DISTRIBUTION CABINETS WITH AN ISOLATION TRANSFORMER HAVE CIRCUIT BREAKER CB1 AND TWO CONTROL WIRES FROM THE THERMAL SENSOR IN THE TRANSFORMER THAT MUST BE CONNECTED TO TB2-11 AND TB2-12 IN THE UPS CABINET.
- MINIMUM SERVICE CLEARANCE: FRONT 48 INCHES (1.2 m), REAR 24 INCHES (.6 m), TOP 36 INCHES (.9 m).
- HEAT GENERATION:

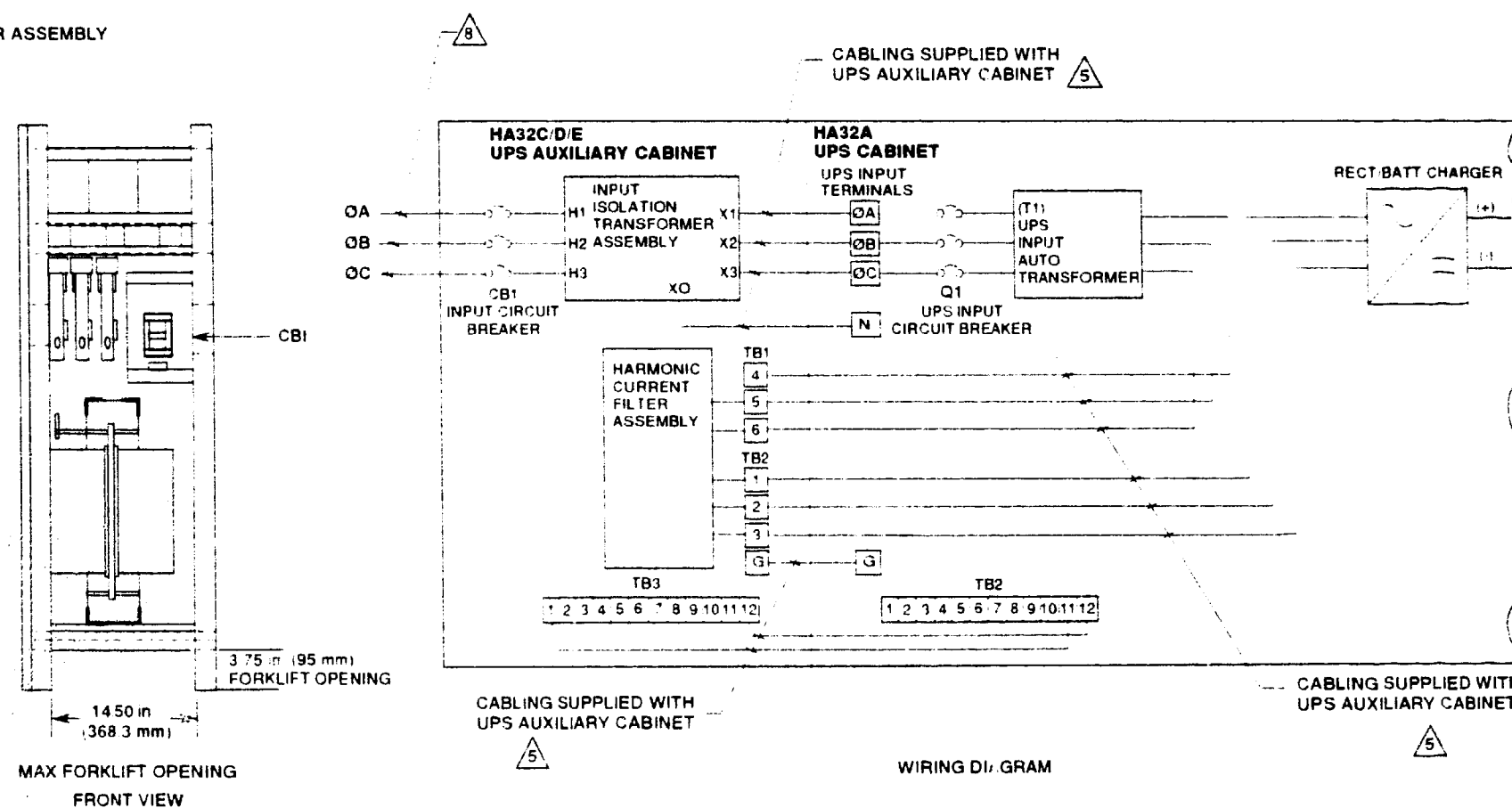
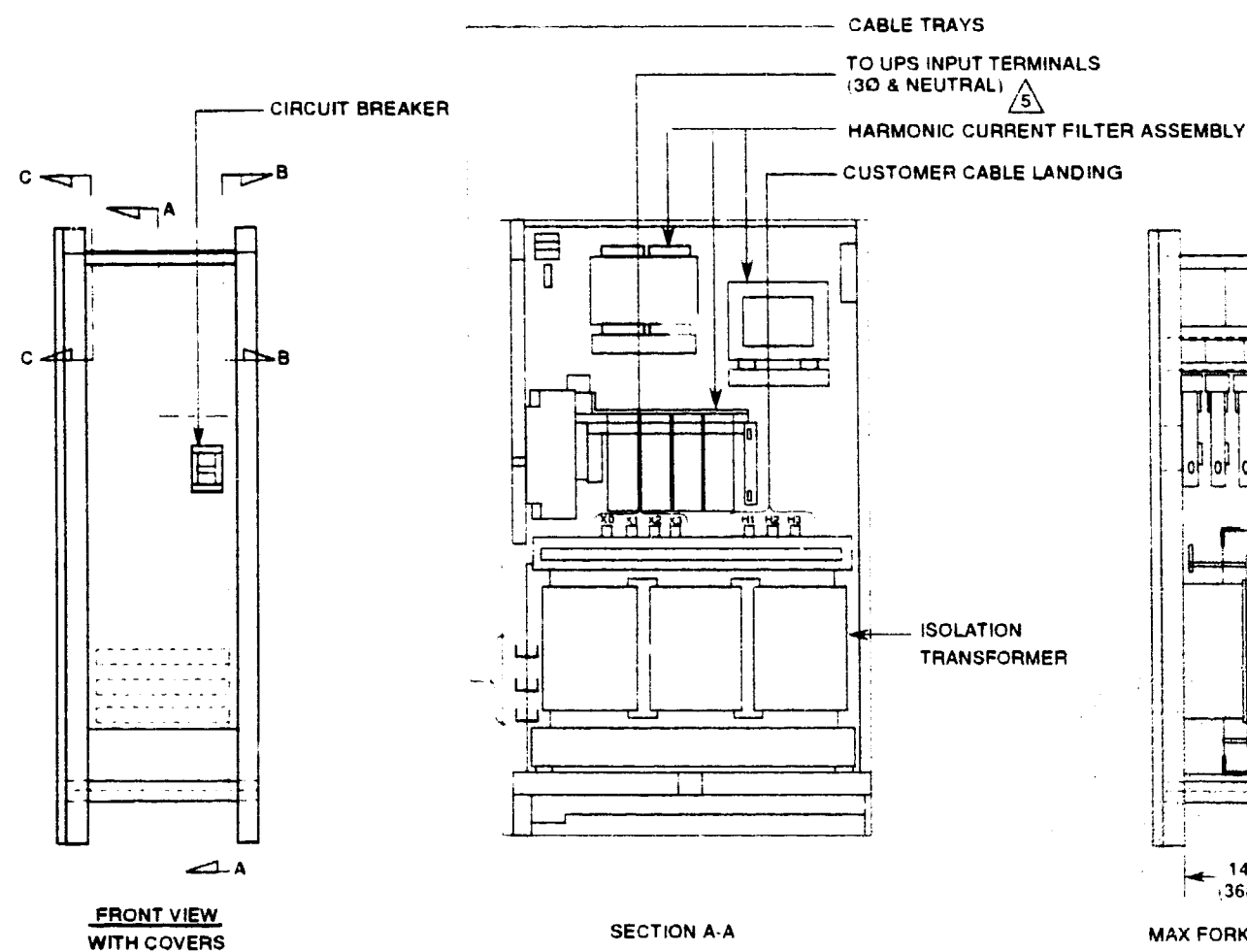
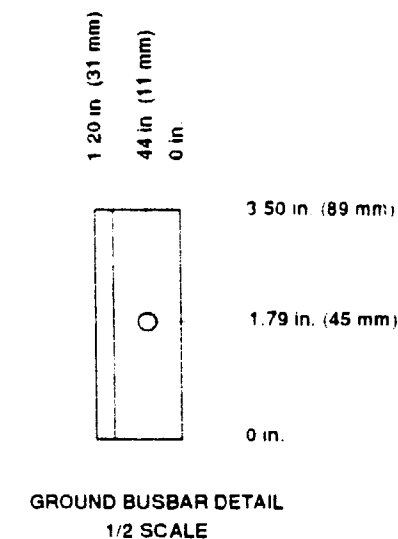
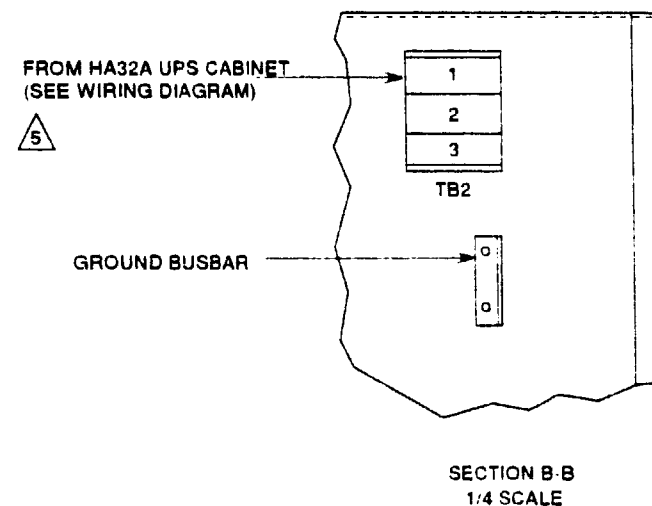
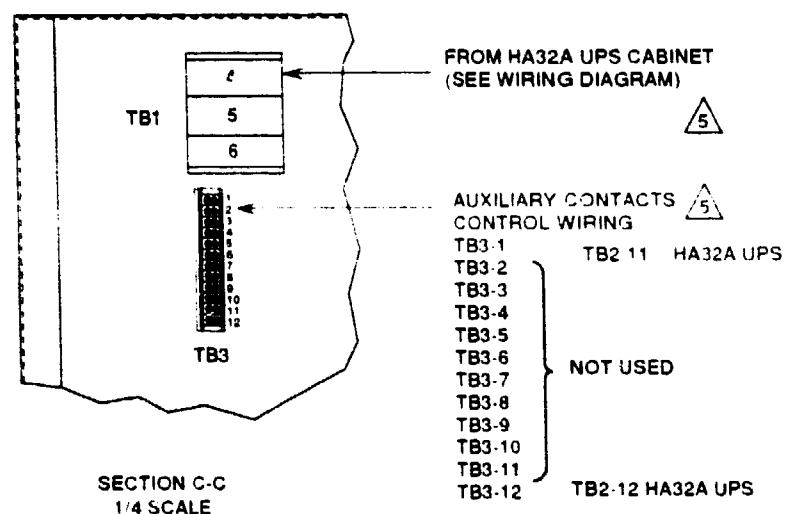
kVA	MAX. HEAT GENERATION (BTU/HR)	
	WITHOUT ISOLATION TRANSFORMER	WITH ISOLATION TRANSFORMER
20	75	2430
40	100	4695
60	175	5955
80	250	7490

11. APPROXIMATE WEIGHT.

kVA	WEIGHT (LBS./KG)			
	WITHOUT INPUT ISOLATION XFMR		WITH INPUT ISOLATION XFMR	
	1 X 42 POLE PANELBOARD	2 X 42 POLE PANELBOARD	1 X 42 POLE PANELBOARD	2 X 42 POLE PANELBOARD
20	495/225	N/A	775/352	N/A
40	495/225	N/A	855/389	880/402
60	N/A	525/239	N/A	1015/461
80	N/A	525/239	N/A	1135/516



**11 HA32J/K UPS DISTRIBUTION CABINET
INSTALLATION DRAWING
Sheet 1 of 1**



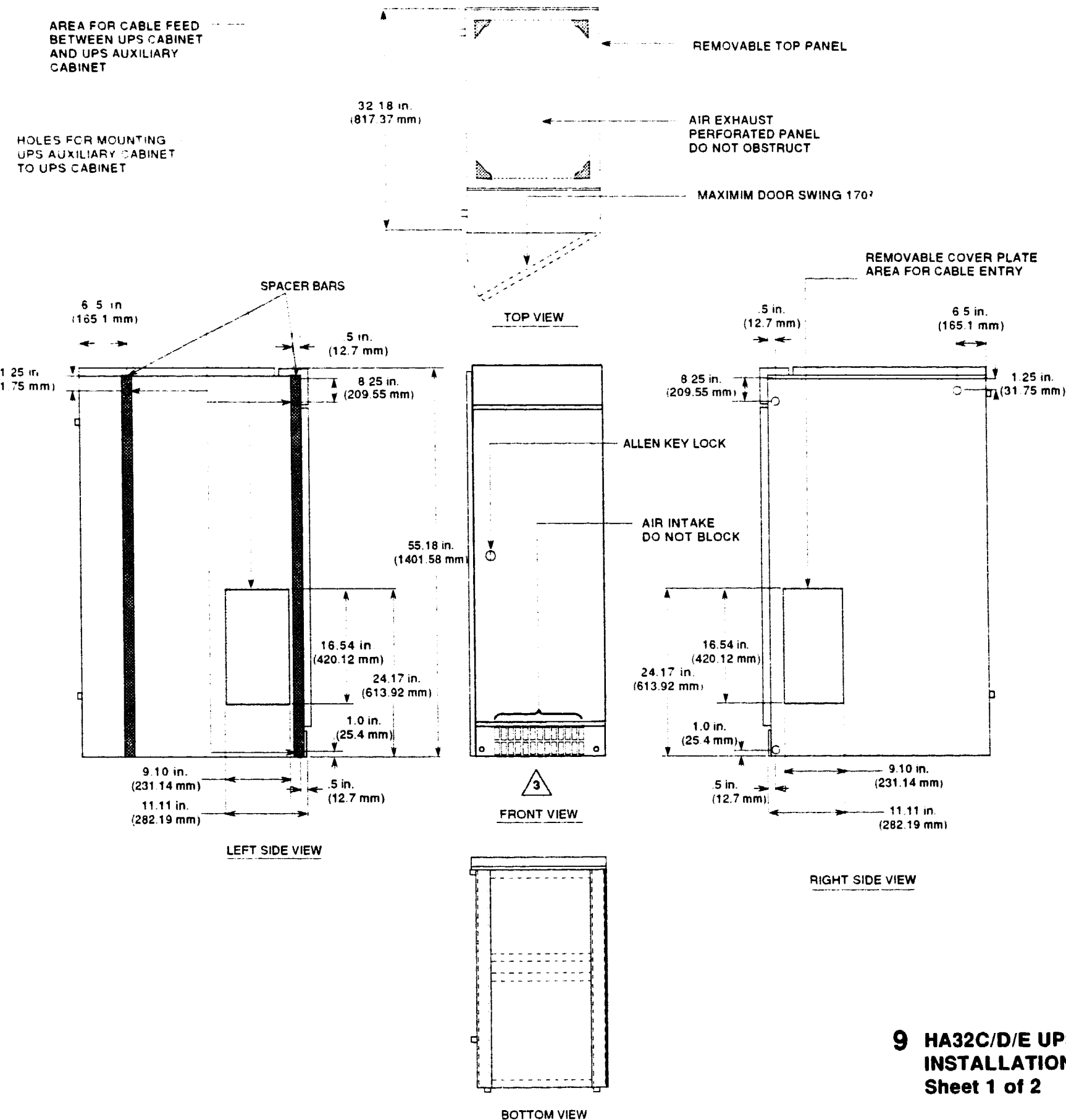
NOTES

1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE CABINET. EXCLUDING DOOR LOCKS AND ALL HARDWARE DIMENSIONS IN PARENTHESIS ARE METRIC
2. A 3/32 ALLEN KEY IS REQUIRED TO OPEN THE DOOR
3. FRONT AND BACK COVER PLATES ARE PACKAGED SEPARATELY AND SHIPPED INSIDE THE UPS AUXILIARY CABINET CONTAINER.
4. OPTIMUM RECOMMENDED OPERATING TEMPERATURE 77 DEGREES F (25 DEGREES C)
5. UPS AUXILIARY CABINETS MUST BE INSTALLED ON THE RIGHT SIDE OF THE HA32A UPS CABINET ONLY. DIGITAL WILL PROVIDE ALL POWER AND CONTROL CABLES BETWEEN THE HA32A UPS CABINET AND THE UPS AUXILIARY CABINET.
6. SIDE PANELS ARE NOT PROVIDED WITH UPS AUXILIARY CABINETS. REMOVE SIDE PANEL FROM HA32A UPS CABINET AND ATTACH TO THE RIGHT SIDE OF THE UPS AUXILIARY CABINET
7. THE OVERALL CENTER OF GRAVITY WITH BOTH OPTIONS INSTALLED. USING THE LOWER LEFT FRONT CORNER OF THE UPS AUXILIARY CABINET AS ZERO REFERENCE, IS LOCATED APPROXIMATELY AT 6.91 INCHES (176 mm) TO THE RIGHT, 14.96 INCHES (380 mm) DEEP, AND 21.68 INCHES (551 mm) HIGH.
8. ALL EXTERNAL WIRING IS SUPPLIED AND CONNECTED BY CUSTOMER. REFER TO THE HA3000 UNINTERRUPTIBLE POWER SYSTEM INSTALLATION MANUAL (EK-HA32X-IN).
9. IF INPUT ISOLATION TRANSFORMER OPTION IS NOT REQUIRED, THE INPUT SERIES INDUCTOR WILL BE LOCATED ON THE BASE.
10. MINIMUM SERVICE CLEARANCE: FRONT 48 INCHES (1.2 m), REAR 24 INCHES (.6 m), TOP 36 INCHES (.9 m)
11. HEAT GENERATION:

kVA	MAX. HEAT GENERATION (BTU) BOTH OPTIONS, INPUT ISOL TRANSFORMER & INPUT CURRENT FILTER
20	2,638
40	5,276
60	7,914
80	13,190

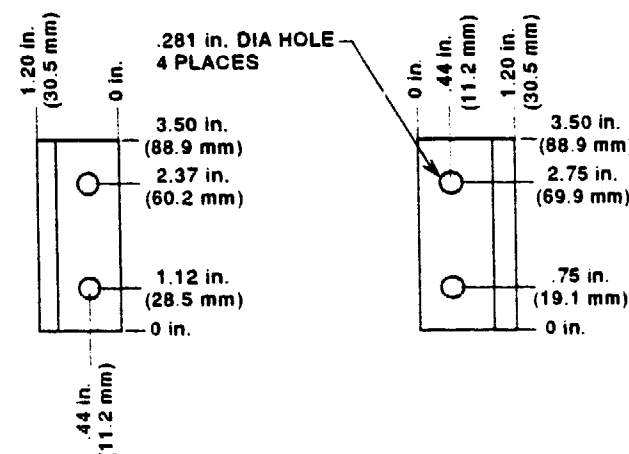
12. APPROXIMATE WEIGHT:

kVA	WEIGHT (LBS/KG)		
	WITH INPUT ISOL XFORMER ONLY	WITH INPUT CURRENT FILTER ONLY	WITH BOTH INPUT ISOL XFORMER & INPUT CURRENT FILTER
20	450/204	341/154	591/268
40	550/249	374/169	724/328
60	720/327	473/214	993/450
80	850/386	573/260	1,255/556



CONTROL WIRING TERMINAL BLOCK (TB1)

- TB1-1 } QF1 24 Vdc UV RELEASE
TB1-2 }
- TB1-3 NOT USED
TB1-4 N.O.
TB1-5 COMM.
TB1-6 N.C. } QF1 AUXILIARY CONTACT
- TB1-7 } DC GROUND FAULT DETECTOR CONTACTS
TB1-8 }
- TB1-9 } SMOKE DETECTOR CONTACTS
TB1-10 }
- TB1-11 +24 Vdc } SMOKE DETECTOR
TB1-12 COMMON } POWER SUPPLY



BUSBAR DETAIL

.25 THICK
(6.35 mm)

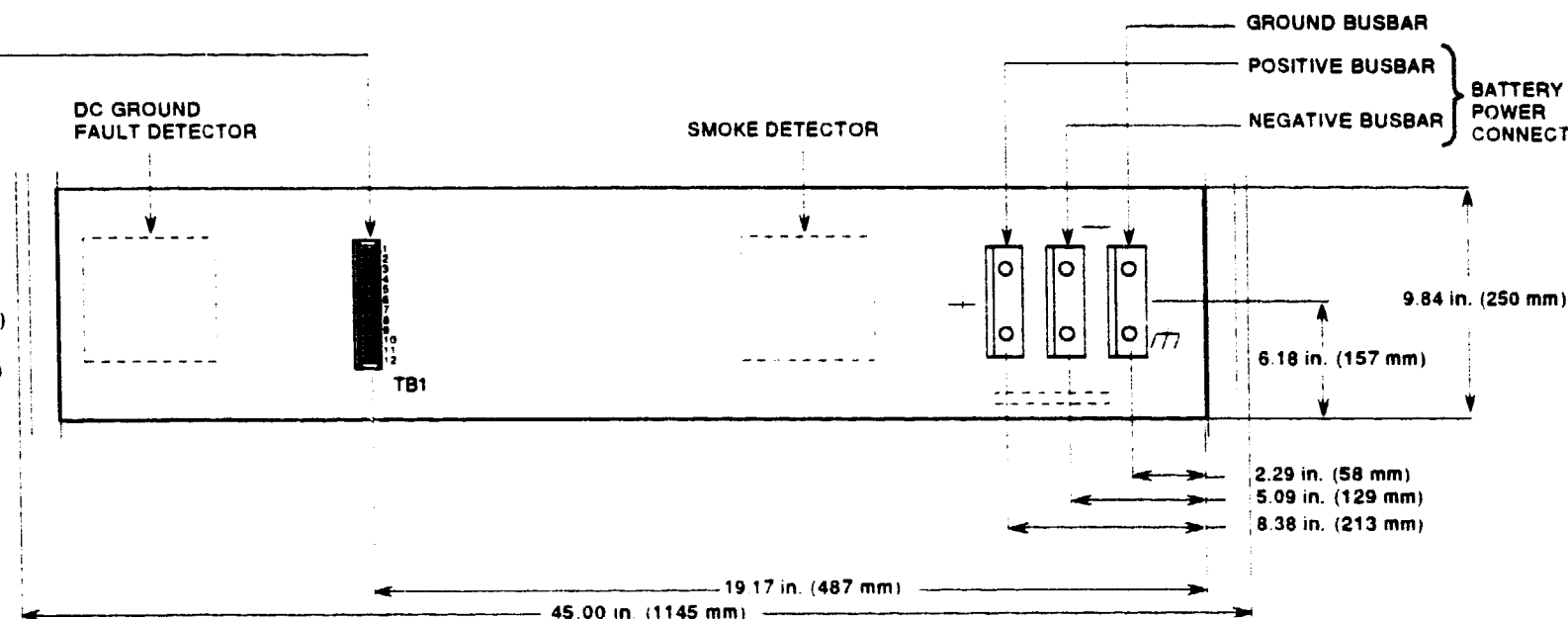
DC GROUND
FAULT DETECTOR

SMOKE DETECTOR

GROUND BUSBAR

POSITIVE BUSBAR

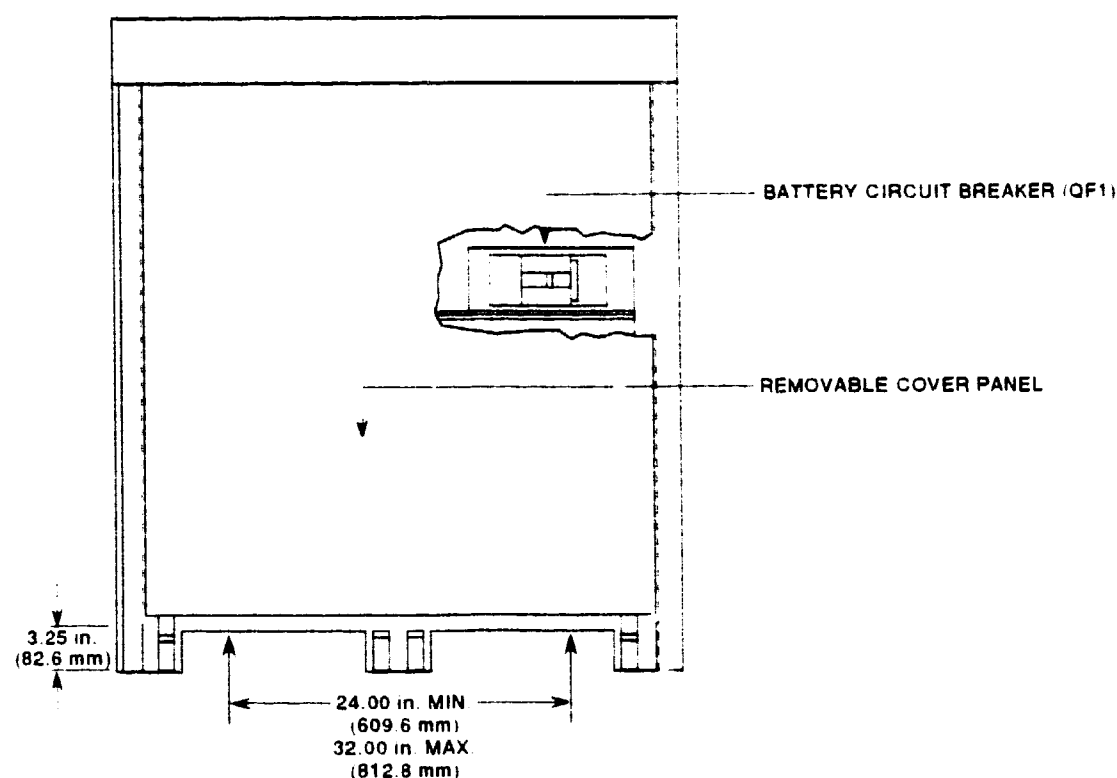
NEGATIVE BUSBAR } BATTERY
POWER
CONNECTION



DETAIL A-A

NOTES:

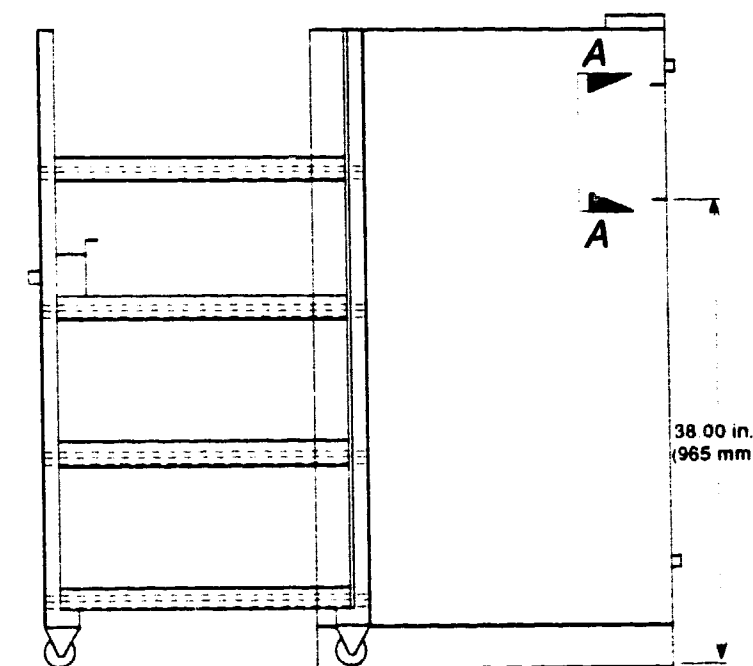
- ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE CABINET, EXCLUDING DOOR LOCKS AND ALL HARDWARE. DIMENSIONS IN PARENTHESIS ARE METRIC.
- A 3/32 ALLEN KEY IS REQUIRED TO OPEN THE RIGHT DOOR. A PHILLIPS SCREWDRIVER IS REQUIRED TO OPEN THE LEFT DOOR.
- OPTIMUM RECOMMENDED OPERATING TEMPERATURE: 25 DEGREES C (77 DEGREES F)
- THE OVERALL CENTER OF GRAVITY, USING THE LOWER LEFT FRONT CORNER OF THE UPS CABINET AS ZERO REFERENCE, IS LOCATED APPROXIMATELY AT 22.50 INCHES (572 mm) TO THE RIGHT, 16.09 INCHES (409 mm) DEEP, AND 27.59 INCHES (701 mm) HIGH.
- ALL EXTERNAL WIRING IS SUPPLIED AND CONNECTED BY CUSTOMER. MAXIMUM BATTERY CABLE VOLTAGE DROPS SHALL BE KEPT TO LESS THAN 0.5 Vdc BASED UPON THE DC CURRENTS INDICATED IN THE HA3000 UNINTERRUPTIBLE POWER SYSTEM INSTALLATION MANUAL (EK-HA32X-IN). RECOMMENDED CABLE LENGTH IS LESS THAN 20 FT (6.1 m).
- MINIMUM SERVICE CLEARANCE: FRONT 48 INCHES (1.2 m), REAR 24 INCHES (.6 m), TOP 36 INCHES (.9 m)
- TO INSTALL THE SMOKE DETECTOR AND DC GROUND FAULT DETECTOR, FOLLOW THE INSTRUCTIONS SHIPPED WITH THE OPTION.



FRONT VIEW

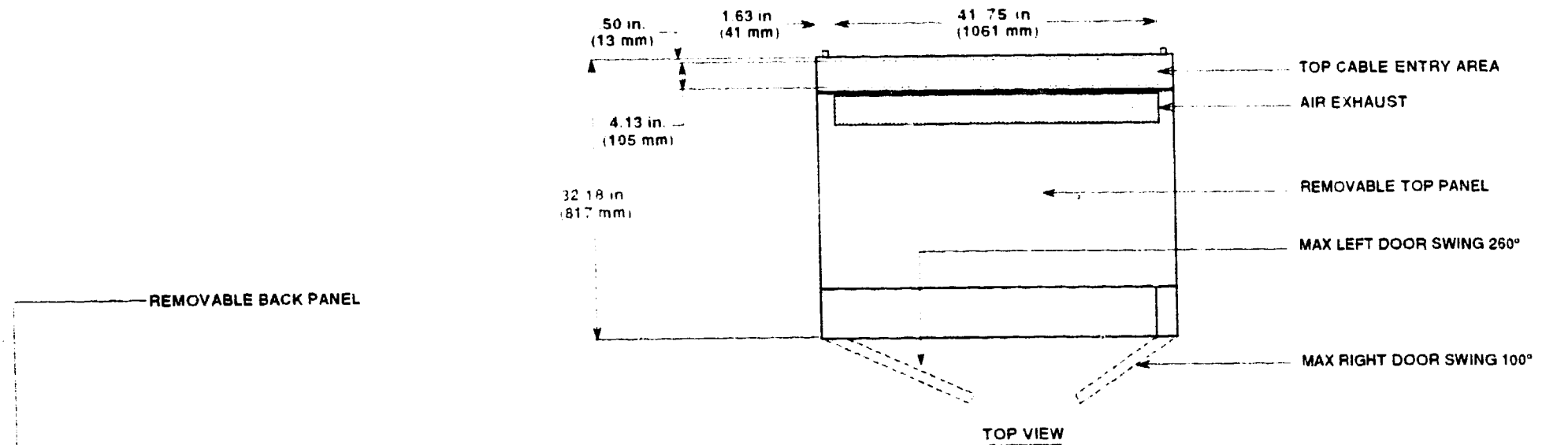
DOORS REMOVED

REMOVE TOP PANEL AND FRONT TOP PIECE
BEFORE PULLING BATTERY RACKS OUT

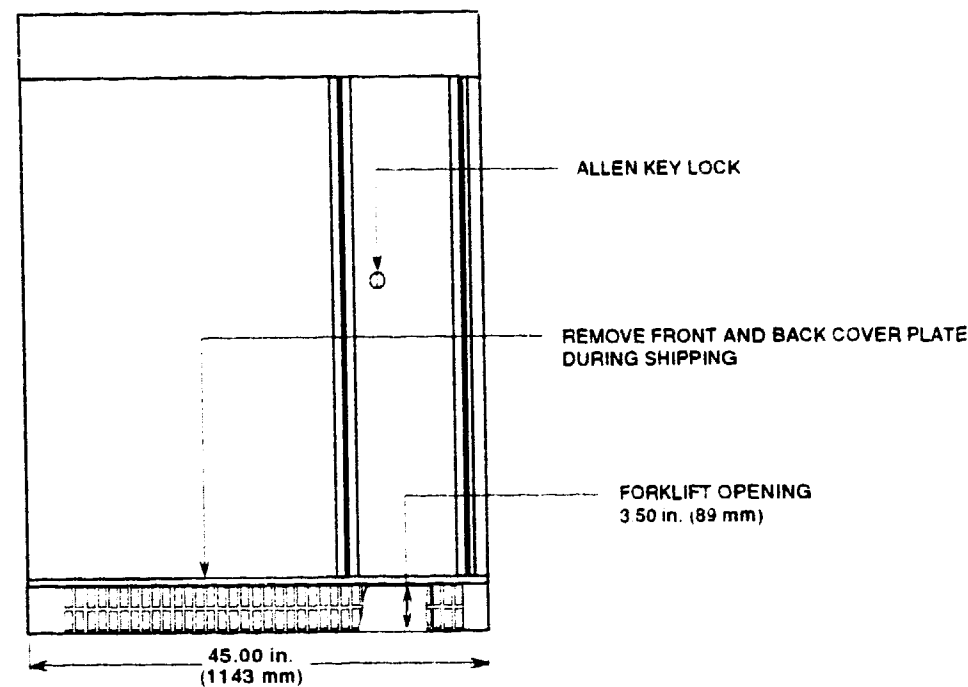
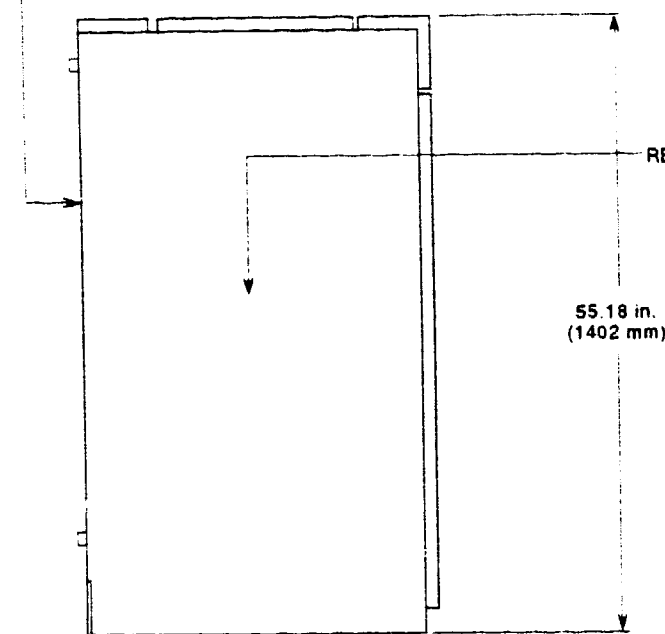


SIDE VIEW
WITH BOTH RACKS PULLED OUT
(NO CABLE DISCONNECTION REQUIRED)

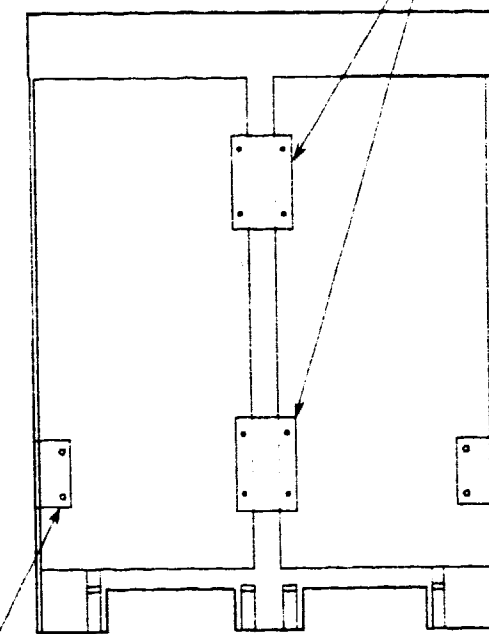
8 HA32B UPS BATTERY CABINET (45.0")
INSTALLATION DRAWING
Sheet 2 of 2



REMOVABLE BACK PANEL

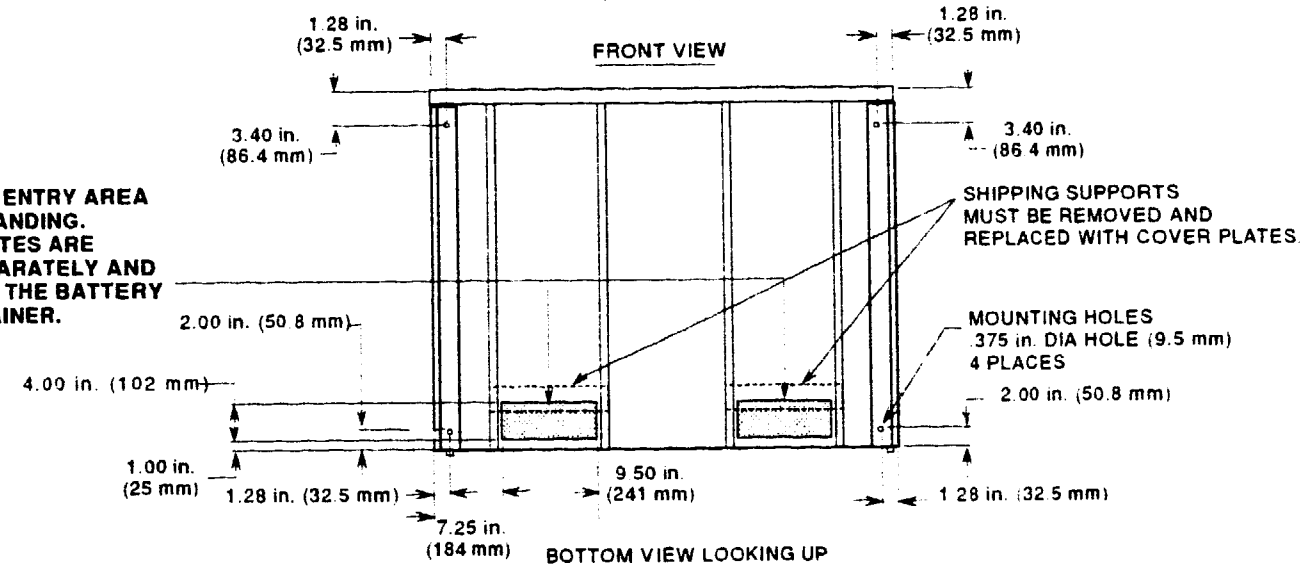


REMOVE YELLOW PLATES BEFORE FINAL INSTALLATION FRONT AND REAR.



REMOVE (4) SCREWS AND (2) ANGLE BRACKETS FROM FRONT. REMOVE (4) SCREWS (2) PER ANGLE BRACKET. LEAVE ANGLE BRACKET IN PLACE TO ACT AS STOP REAR ONLY.

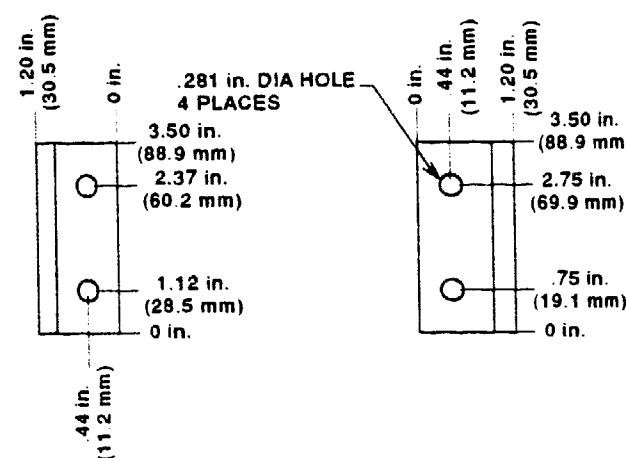
BOTTOM CABLE ENTRY AREA FOR CONDUIT LANDING. THE COVER PLATES ARE PACKAGED SEPARATELY AND SHIPPED INSIDE THE BATTERY CABINET CONTAINER.



7 HA32B UPS BATTERY CABINET (45.0")
INSTALLATION DRAWING
 Sheet 1 of 2

CONTROL WIRING TERMINAL BLOCK (TB1)

- TB1-1 } QF1 24 Vdc UV RELEASE
TB1-2 }
- TB1-3 NOT USED
TB1-4 N.O.
TB1-5 COMM. } QF1 AUXILIARY CONTACT
TB1-6 N.C.
- TB1-7 } DC GROUND FAULT DETECTOR
TB1-8 } CONTACTS
- TB1-9 } SMOKE DETECTOR CONTACTS
TB1-10 }
- TB1-11 +24 Vdc } SMOKE DETECTOR
TB1-12 COMMON } POWER SUPPLY



BUSBAR DETAIL

.25 THICK
(6.35 mm)

SMOKE DETECTOR

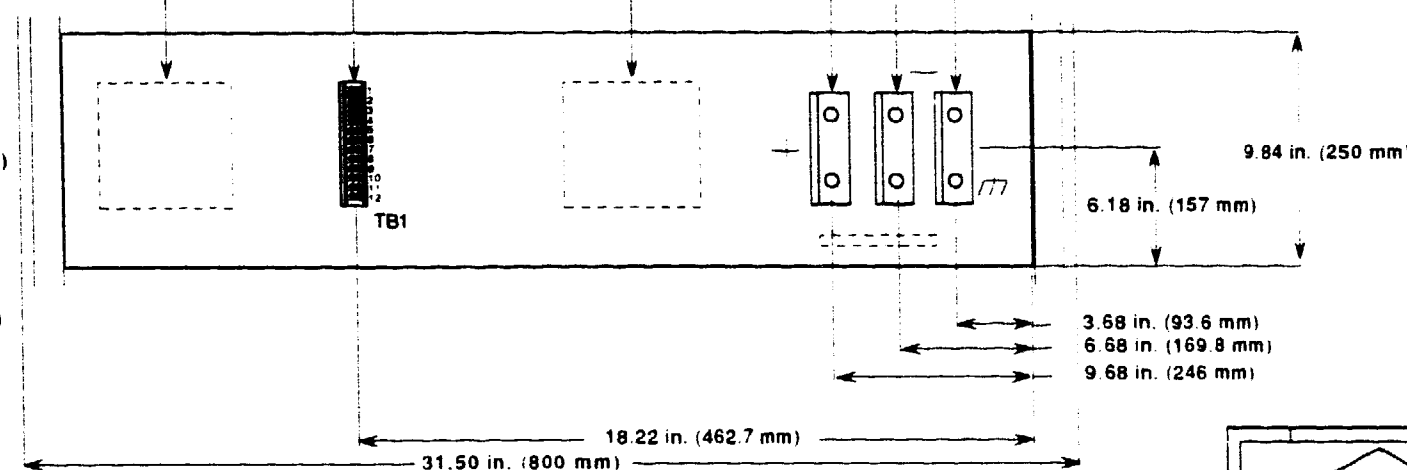
DC GROUND FAULT DETECTOR

GROUND BUSBAR

POSITIVE BUSBAR

NEGATIVE BUSBAR

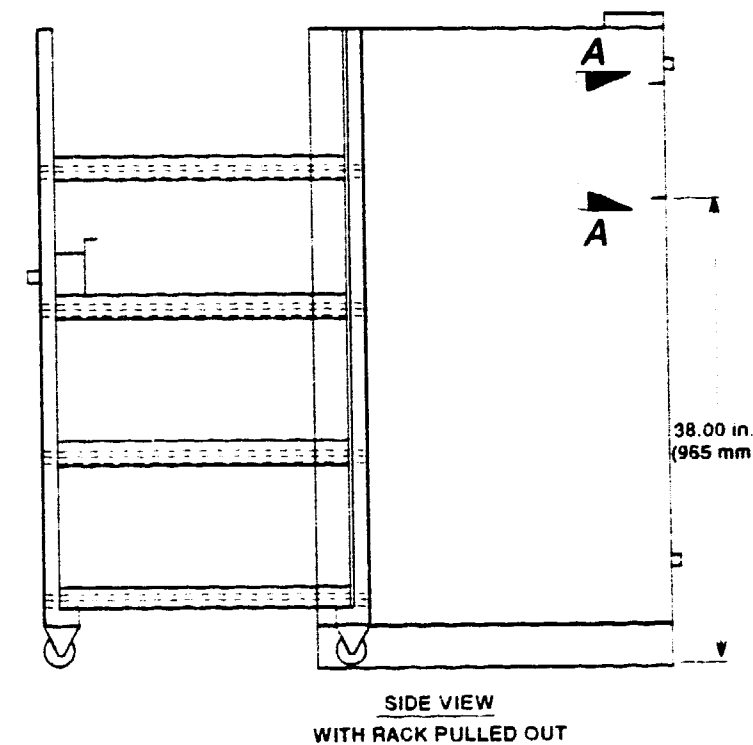
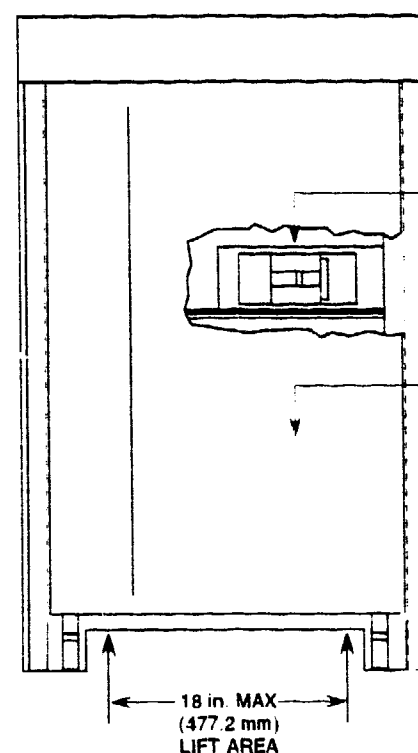
BATTERY POWER CONNECTION



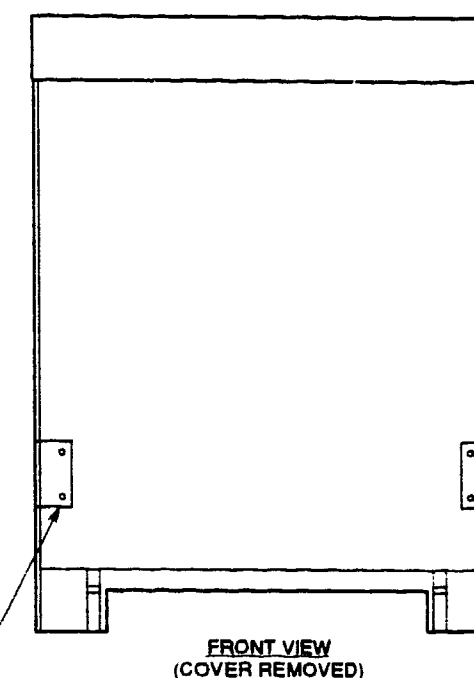
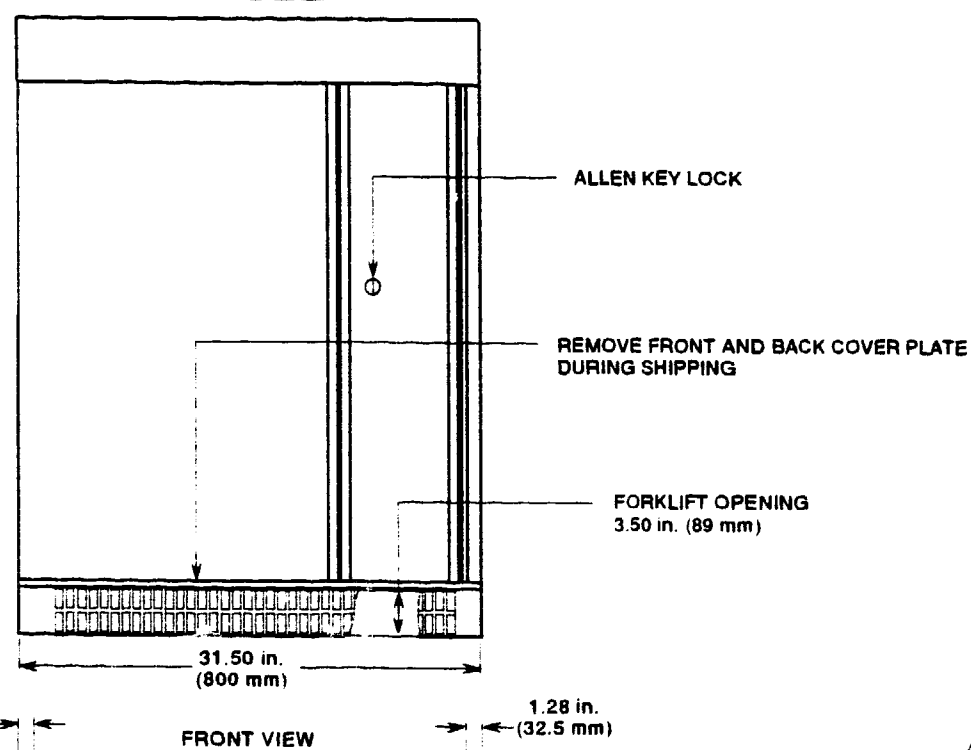
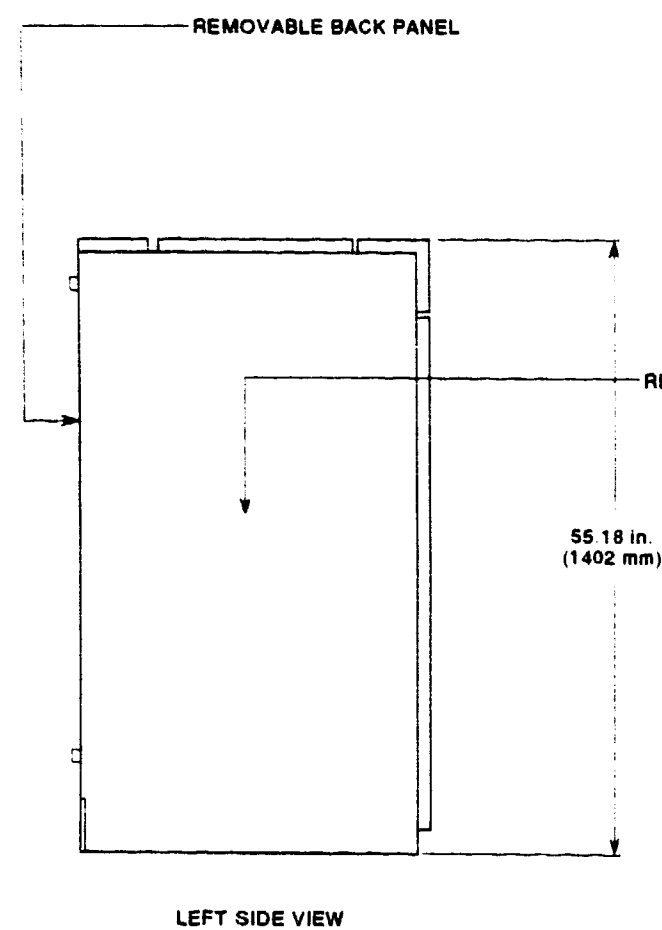
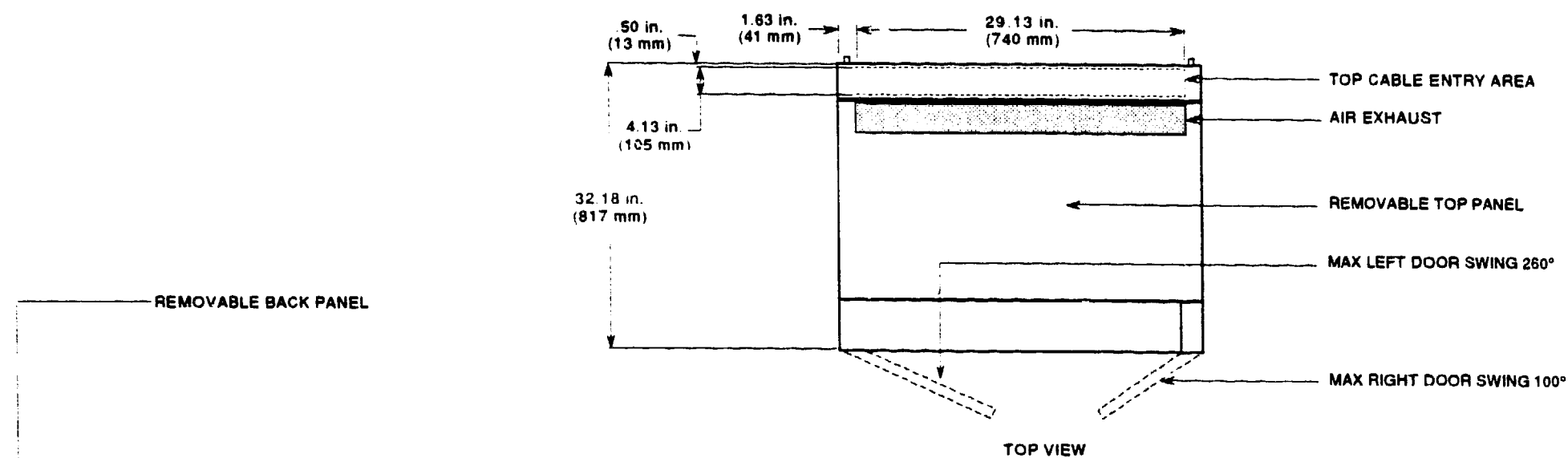
REMOVE TOP PANEL AND FRONT TOP PIECE
BEFORE PULLING BATTERY RACKS OUT

NOTES:

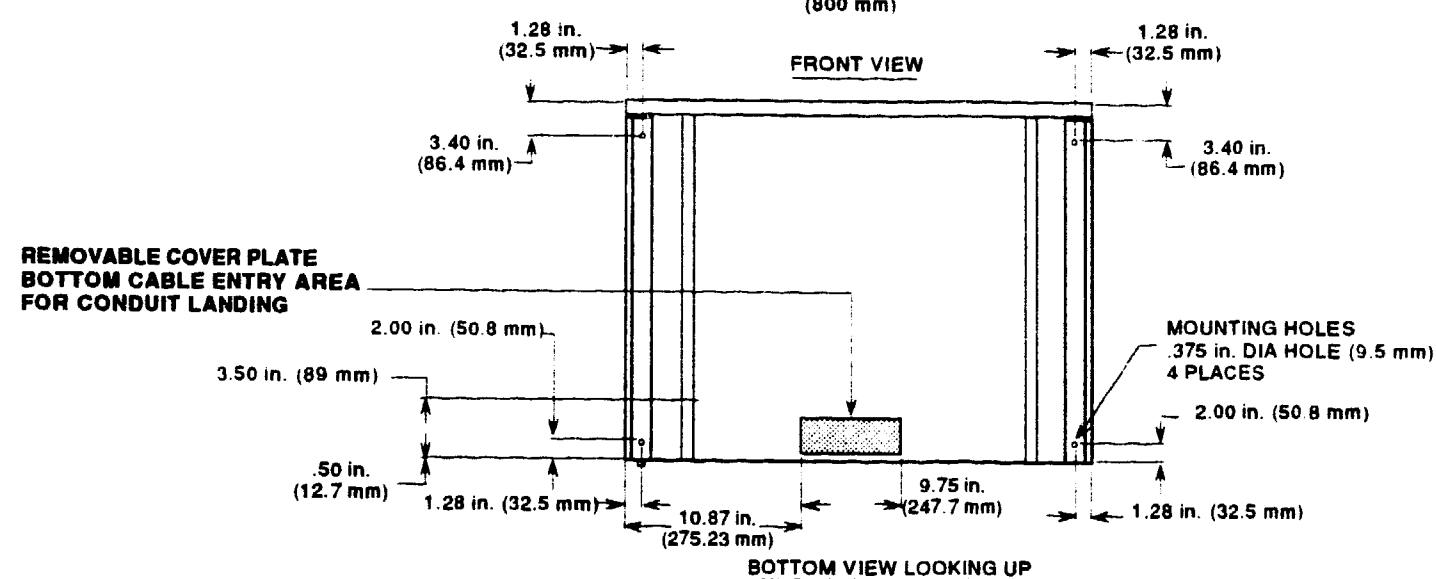
- ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE CABINET, EXCLUDING DOOR LOCKS AND ALL HARDWARE. DIMENSIONS IN PARENTHESIS ARE METRIC.
- A 3/32 ALLEN KEY IS REQUIRED TO OPEN THE RIGHT DOOR. A PHILLIPS SCREWDRIVER IS REQUIRED TO OPEN THE LEFT DOOR.
- OPTIMUM RECOMMENDED OPERATING TEMPERATURE: 25 DEGREES C (77 DEGREES F)
- THE OVERALL CENTER OF GRAVITY, USING THE LOWER LEFT FRONT CORNER OF THE UPS CABINET AS ZERO REFERENCE, IS LOCATED APPROXIMATELY AT 26.00 INCHES (660 mm) TO THE RIGHT, 16.09 INCHES (409 mm) DEEP, AND 27.59 INCHES (701 mm) HIGH.
- ALL EXTERNAL WIRING IS SUPPLIED AND CONNECTED BY CUSTOMER. MAXIMUM BATTERY CABLE VOLTAGE DROPS SHALL BE KEPT TO LESS THAN 0.5 Vdc BASED UPON THE DC CURRENTS INDICATED IN THE HA3000 UNINTERRUPTIBLE POWER SYSTEM INSTALLATION MANUAL (EK-HA32X-IN). RECOMMENDED CABLE LENGTH IS LESS THAN 20 FT (6.1 m).
- MINIMUM SERVICE CLEARANCE: FRONT 48 INCHES (1.2 m), REAR 24 INCHES (.6 m), TOP 36 INCHES (.9 m)
- TO INSTALL THE SMOKE DETECTOR AND DC GROUND FAULT DETECTOR, FOLLOW THE INSTRUCTIONS SHIPPED WITH THE OPTION.



6 HA32B UPS BATTERY CABINET (31.5")
INSTALLATION DRAWING
Sheet 2 of 2



REMOVE (4) SCREWS AND (2) ANGLE BRACKETS FROM FRONT. REMOVE (4) SCREWS (2) PER ANGLE BRACKET. LEAVE ANGLE BRACKET IN PLACE TO ACT AS STOP REAR ONLY.



5 HA32B UPS BATTERY CABINET (31.5") INSTALLATION DRAWING Sheet 1 of 2

MANUAL BYPASS SWITCH (Q3BP)

UPS ISOLATION SWITCH (Q5N)

BYPASS INPUT SWITCH (Q4S)

INPUT CIRCUIT BREAKER (Q1)

GROUND CONNECTION

BATTERY CIRCUIT BREAKER CONTROL WIRING

TB1-1 } QF1 24 Vdc UV RELEASE
TB1-2 }

TB1-3 NOT USED }
TB1-4 N.O. } QF1 AUXILIARY CONTACT
TB1-5 COMM }
TB1-6 NOT USED }

TB1-7 } DC GROUND FAULT DETECTOR CONTACTS
TB1-8 }

TB1-9 } SMOKE DETECTOR CONTACTS
TB1-10 }

TB1-11 +24 Vdc } SMOKE DETECTOR
TB1-12 COMMON } POWER SUPPLY

CONTACT CLOSURE CONTROL WIRING

ISOLATED CONTACTS RATED 1 AMP, AT 24 Vdc OR 120 Vac MAX

TB2-1 N.O. } "ON BATTERY" OPERATION
TB2-2 COMM. }
TB2-3 N.C. }
TB2-4 N.O. } MAJOR MINOR FAULT ALARM
TB2-5 COMM. }
TB2-6 N.C. }

TB2-7 } REMOTE EMERGENCY POWER OFF (REPO)
TB2-8 }

TB2-9 } EXTERNAL CONTACT
TB2-10 }

TB2-11 } AUXILIARY DISTRIBUTION/CSA CABINET
TB2-12 } ENVIRONMENTAL FAULT

REMOTE STATUS PANEL WIRING

TB3-1 CHASSIS GROUND } 18 AWG
TB3-2 120 Vac }
TB3-3 }
TB3-4 RX } TWISTED-PAIR
TB3-5 RX } SHIELDED CABLE
TB3-6 TX }
TB3-7 TX }
TB3-8 NOT USED (SHIELDED CABLE
GROUND)

REMOTE ALARM PANEL WIRING

TB3-9 N.C.
TB3-10 COMM.
TB3-11 COMM.
TB3-12 N.O.

5.11 in. (129.8 mm)
3.92 in. (99.6 mm)
2.74 in. (69.6 mm)
1.56 in. (39.6 mm)

0 in.

0 in.
50 in. (127 mm)
1.00 in. (25.4 mm)

GROUND BUSBAR DETAIL

25 in. THICK
(6.35 mm)

2.00 in.
(50.8 mm)

0 in.

0 in.
50 in. (127 mm)
1.00 in. (25.4 mm)

BUSBAR DETAIL

25 in. THICK
(6.35 mm)

4.92 in.
(125 mm)

8.25 in.
(210 mm)

VIEW AA

SIDE VIEW
CB SWITCH PANEL

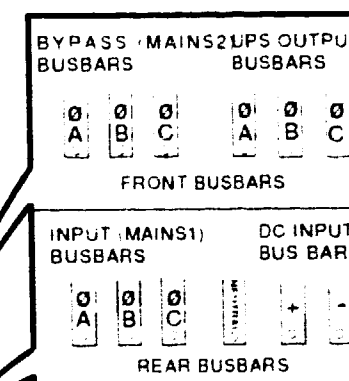
A

A

B

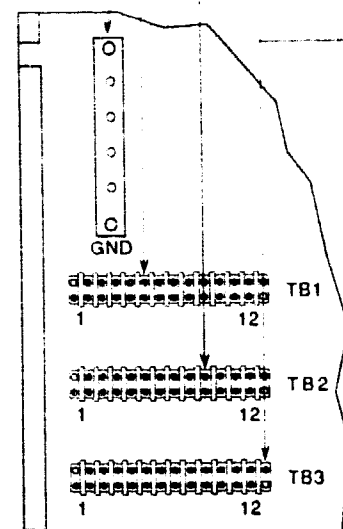
SEE DETAIL

CB SWITCH PANEL
DOOR AND COVER PANEL REMOVED



22.28 in.
(566 mm)

20.44 in.
(519 mm)



DETAIL B

CONTROL WIRING CONNECTION

NOTES

1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE CABINET, EXCLUDING DOOR LOCKS AND ALL HARDWARE. DIMENSIONS IN PARENTHESIS ARE METRIC.
2. A 3/32 ALLEN KEY IS REQUIRED TO OPEN THE RIGHT DOOR. A PHILLIPS SCREWDRIVER IS REQUIRED TO OPEN THE LEFT DOOR.
3. OPTIMUM RECOMMENDED OPERATING TEMPERATURE: 25 DEGREES C (77 DEGREES F).
4. THE OVERALL CENTER OF GRAVITY, USING THE LOWER LEFT FRONT CORNER OF THE UPS CABINET AS ZERO REFERENCE, IS LOCATED APPROXIMATELY AT 25.00 INCHES (635 mm) TO THE RIGHT, 21.00 INCHES (534 mm) DEEP, AND 21.00 INCHES (534 mm) HIGH.
5. ALL EXTERNAL WIRING IS SUPPLIED AND CONNECTED BY CUSTOMER. REFER TO HA3000 UNINTERRUPTIBLE POWER SYSTEM INSTALLATION MANUAL (EK-HA32X-IN).
6. FOR EASE OF INSTALLATION THE INPUT CABLES SHOULD BE WIRED FIRST.
7. FRONT AND BACK COVER PLATE AND DRAW-OUT AIR FILTER AND FILTER BRACKETS ARE PACKAGED SEPARATELY AND SHIPPED INSIDE THE UPS CONTAINER.
8. MINIMUM SERVICE CLEARANCE: FRONT 48 INCHES (1.2 m), REAR 24 INCHES (.6 m), TOP 36 INCHES (.9 m).
9. AIR EXHAUST:

kVA	AIR EXHAUST (CFM)
60	1600
80	1600

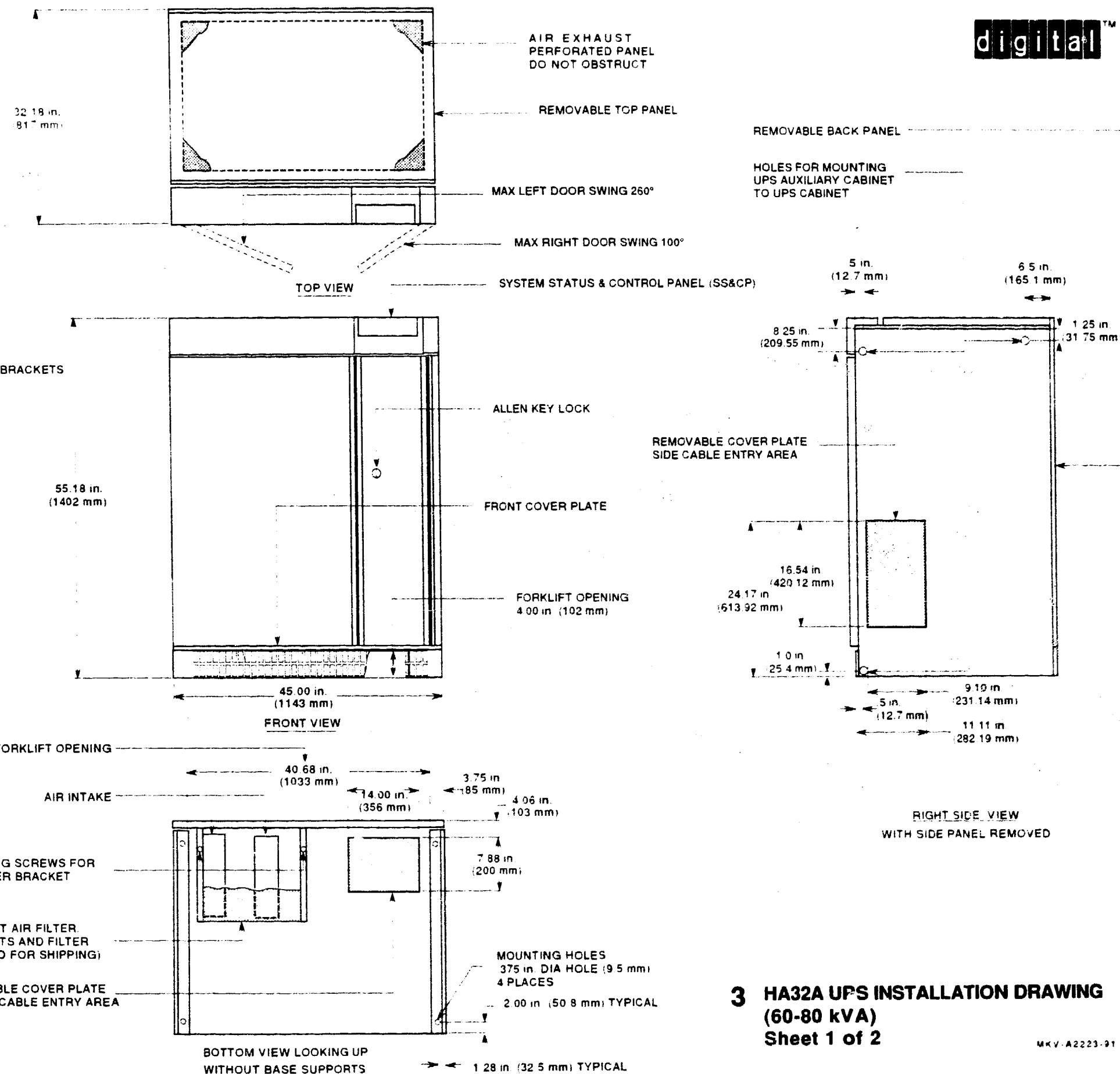
10. HEAT GENERATION:

kVA	MAX. HEAT GENERATION (BTU)
60	20,130
80	26,954

11. APPROXIMATE WEIGHT:

kVA	WEIGHT
60	1725 lbs/783 kg
80	2250 lbs/1023 kg

digital™



3 HA32A UPS INSTALLATION DRAWING (60-80 kVA)
Sheet 1 of 2

MKV-A2223-91

GROUND CONNECTION

BATTERY CIRCUIT BREAKER CONTROL WIRING

- TB1-1 } QF1 24 Vdc UV RELEASE
TB1-2 }
- TB1-3 NOT USED
TB1-4 N.O.
TB1-5 COMM.
TB1-6 NOT USED } QF1 AUXILIARY CONTACT
- TB1-7 } DC GROUND FAULT DETECTOR CONTACTS
TB1-8 }
- TB1-9 } SMOKE DETECTOR CONTACTS
TB1-10 }
- TB1-11 +24 Vdc
TB1-12 COMMON } SMOKE DETECTOR POWER SUPPLY

CONTACT CLOSURE CONTROL WIRING

ISOLATED CONTACTS RATED 1 AMP, AT 24 Vdc OR 120 Vac MAX

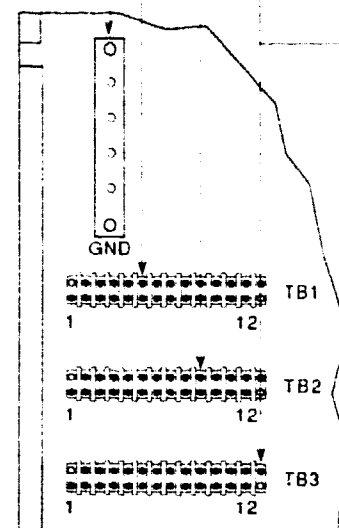
- TB2-1 N.O.
TB2-2 COMM.
TB2-3 N.C.
TB2-4 N.O.
TB2-5 COMM.
TB2-6 N.C. } "ON BATTERY" OPERATION
- TB2-7 } REMOTE EMERGENCY POWER OFF (REPO)
TB2-8 }
- TB2-9 } EXTERNAL CONTACT
TB2-10 }
- TB2-11 AUXILIARY DISTRIBUTION CSA CABINET
TB2-12 ENVIRONMENTAL FAULT

REMOTE STATUS PANEL WIRING

- TB3-1 CHASSIS GROUND } 18 AWG
TB3-2 120 Vac
TB3-3 }
TB3-4 RX } TWISTED-PAIR
TB3-5 RX }
TB3-6 TX } SHIELDED CABLE
TB3-7 TX }
TB3-8 NOT USED (SHIELDED CABLE GROUND)

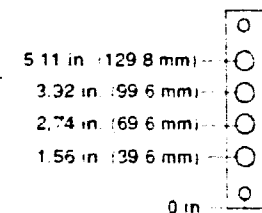
REMOTE ALARM PANEL WIRING

- TB3-9 N.C.
TB3-10 COMM.
TB3-11 COMM.
TB3-12 N.O.



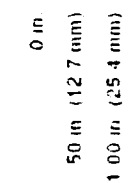
DETAIL B

CONTROL WIRING CONNECTION



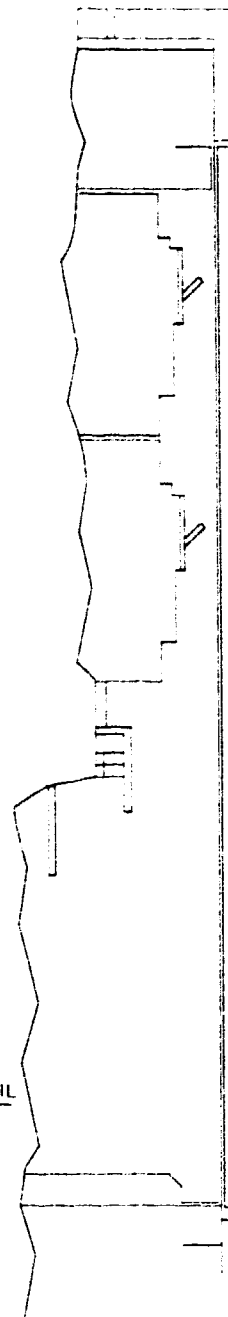
GROUND BUSBAR DETAIL

25 in. THICK
(635 mm)



BUSBAR DETAIL

25 in. THICK
(635 mm)



VIEW AA

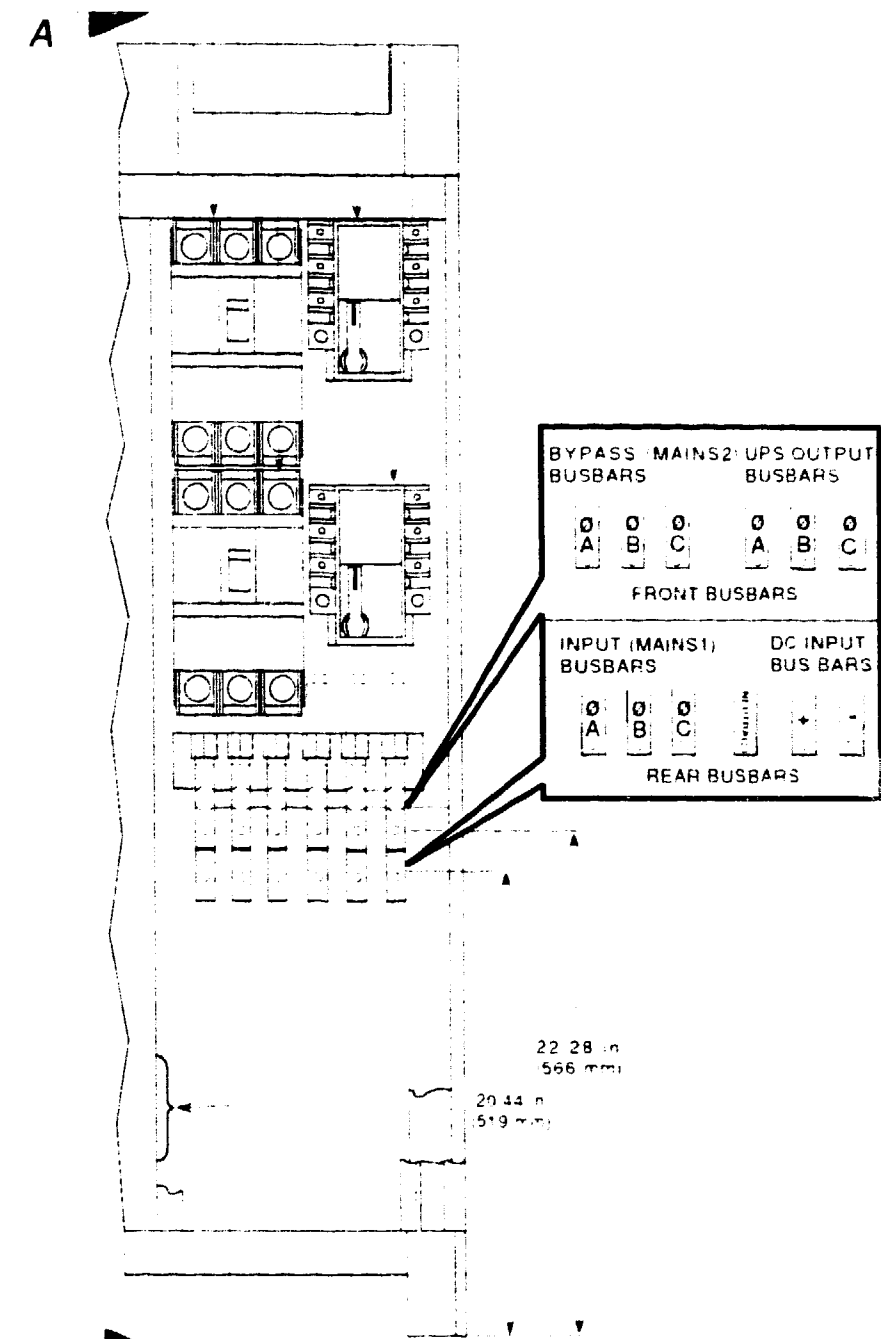
SIDE VIEW
CB SWITCH PANEL

MANUAL BYPASS SWITCH (Q3BP)

UPS ISOLATION SWITCH (Q5N)

BYPASS INPUT SWITCH (Q4S)

INPUT CIRCUIT BREAKER (Q1)



SEE DETAIL B

CB SWITCH PANEL
DOOR AND COVER PANEL REMOVED

2 HA32A UPS INSTALLATION DRAWING
(20-40 kVA)
Sheet 2 of 2

NOTES

1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE CABINET. EXCLUDING DOOR LOCKS AND ALL HARDWARE. DIMENSIONS IN PARENTHESIS ARE METRIC
2. A 3/32 ALLEN KEY IS REQUIRED TO OPEN THE RIGHT DOOR. A PHILLIPS SCREWDRIVER IS REQUIRED TO OPEN THE LEFT DOOR
3. OPTIMUM RECOMMENDED OPERATING TEMPERATURE 25 DEGREES C (77 DEGREES F)
4. THE OVERALL CENTRE OF GRAVITY, USING THE LOWER LEFT FRONT CORNER OF THE UPS CABINET AS ZERO REFERENCE, IS LOCATED APPROXIMATELY AT 18.00 INCHES (457 mm) TO THE RIGHT, 21.00 INCHES (534 mm) DEEP, AND 21.00 INCHES (534 mm) HIGH.
5. ALL EXTERNAL WIRING IS SUPPLIED AND CONNECTED BY CUSTOMER. REFER TO HA3000 UNINTERRUPTIBLE POWER SYSTEM INSTALLATION MANUAL (EK-HA32X-IN).
6. FOR EASE OF INSTALLATION THE INPUT CABLES SHOULD BE WIRED FIRST
7. FRONT AND BACK COVER PLATE AND DRAW-OUT AIR FILTER AND FILTER BRACKETS ARE PACKAGED SEPARATELY AND SHIPPED INSIDE THE UPS CONTAINER
8. MINIMUM SERVICE CLEARANCE FRONT 48 INCHES (1.2 m), REAR 24 INCHES (.6 m), TOP 36 INCHES (.9 m)
9. AIR EXHAUST

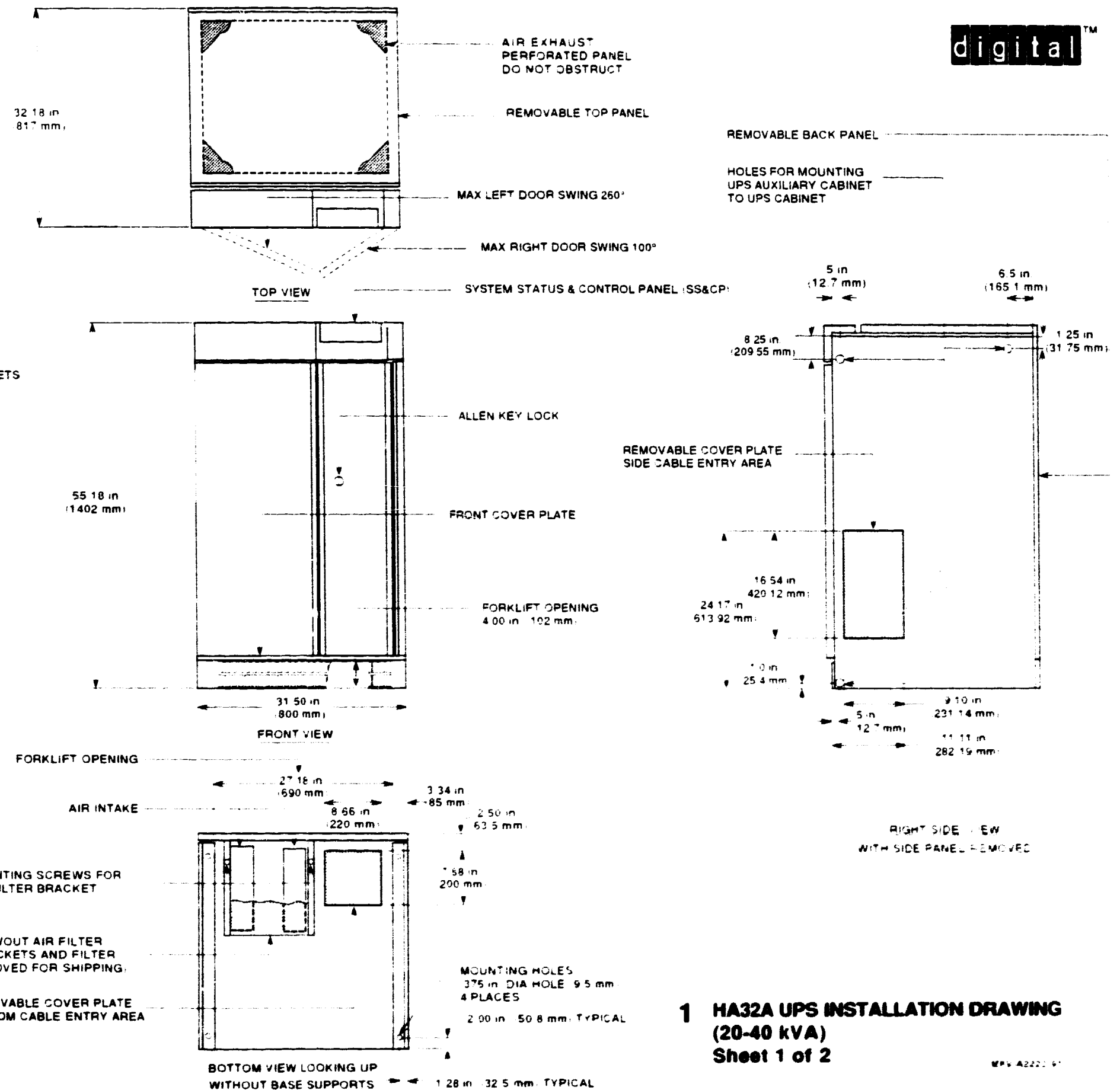
kVA	AIR EXHAUST (CFM)
20	1200
40	1200

10. HEAT GENERATION

kVA	MAX HEAT GENERATION (BTU)
20	8189
40	15,013

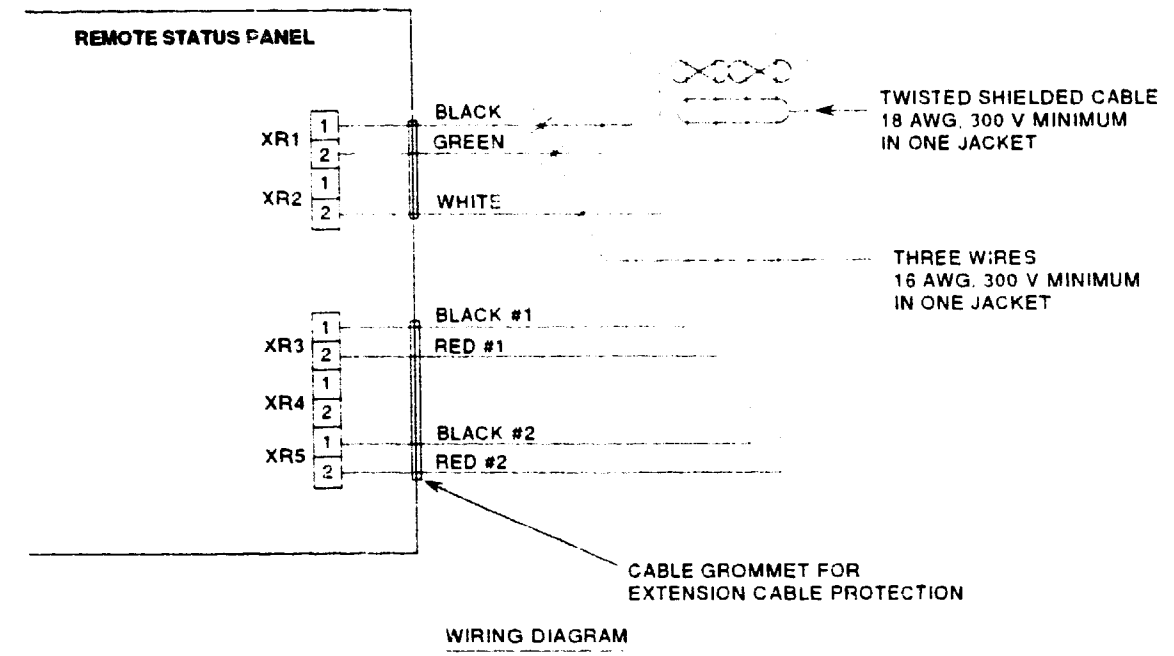
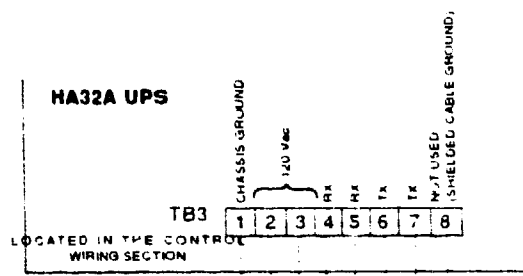
11. APPROXIMATE WEIGHT

kVA	WEIGHT
20	1075 lbs/488 kg
40	1385 lbs/628 kg



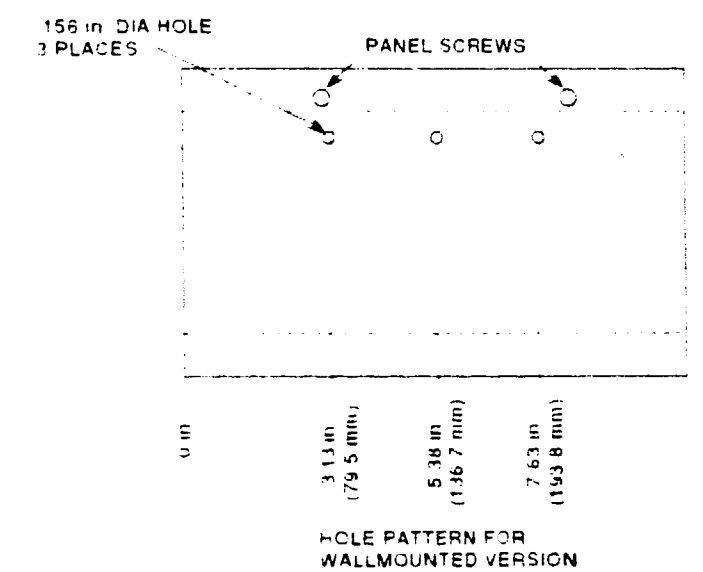
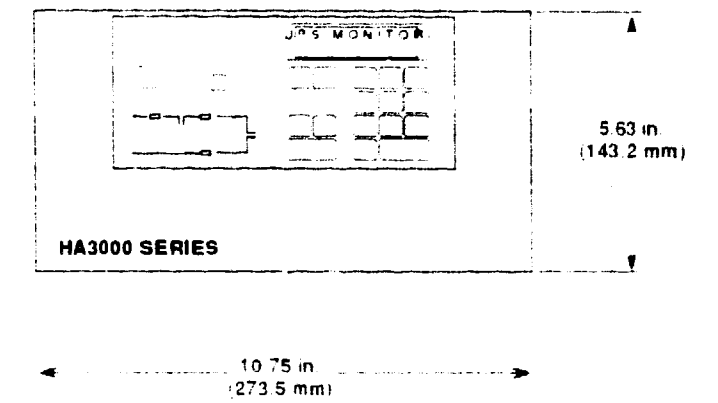
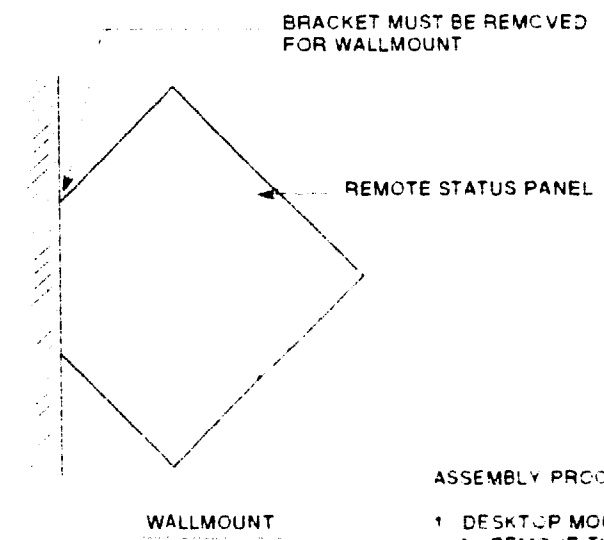
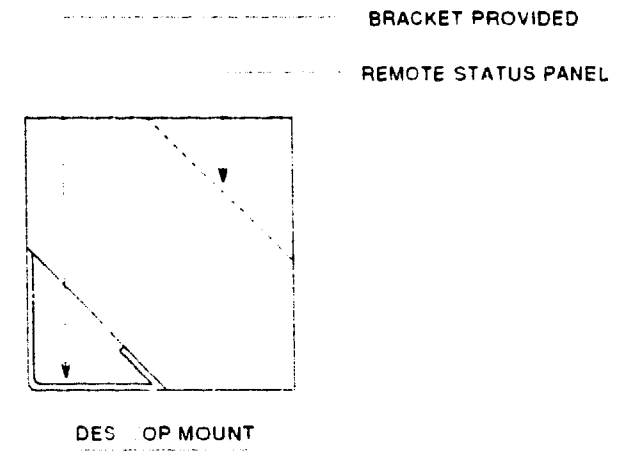
1 HA32A UPS INSTALLATION DRAWING (20-40 kVA)
Sheet 1 of 2

MF-A2221-91



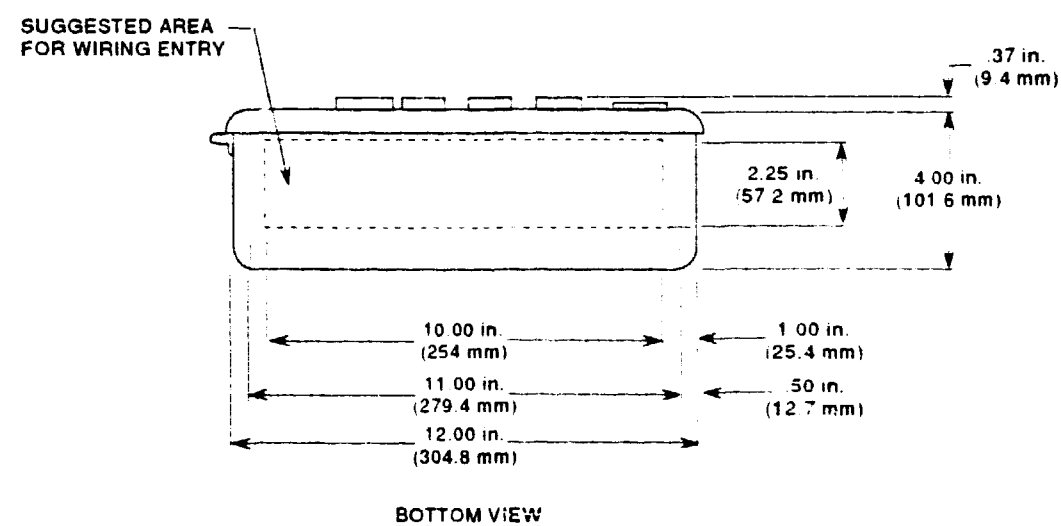
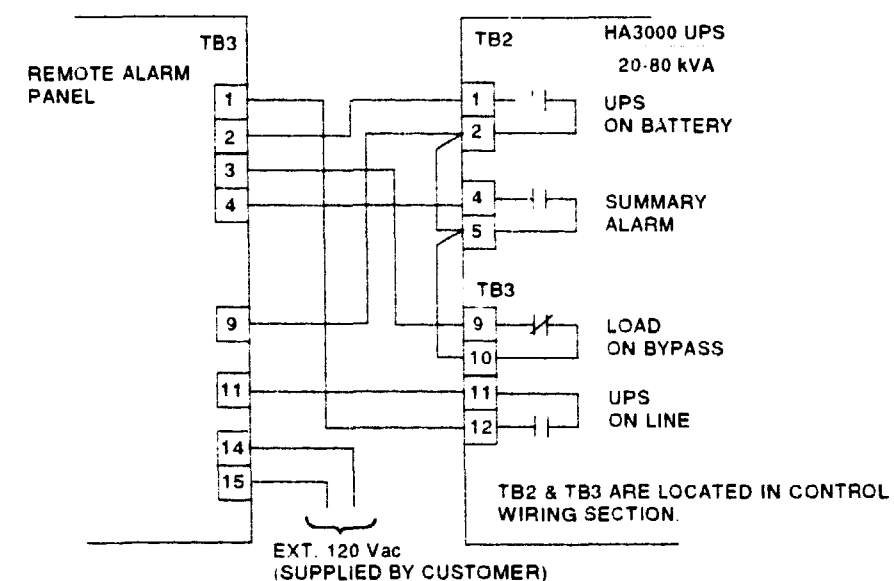
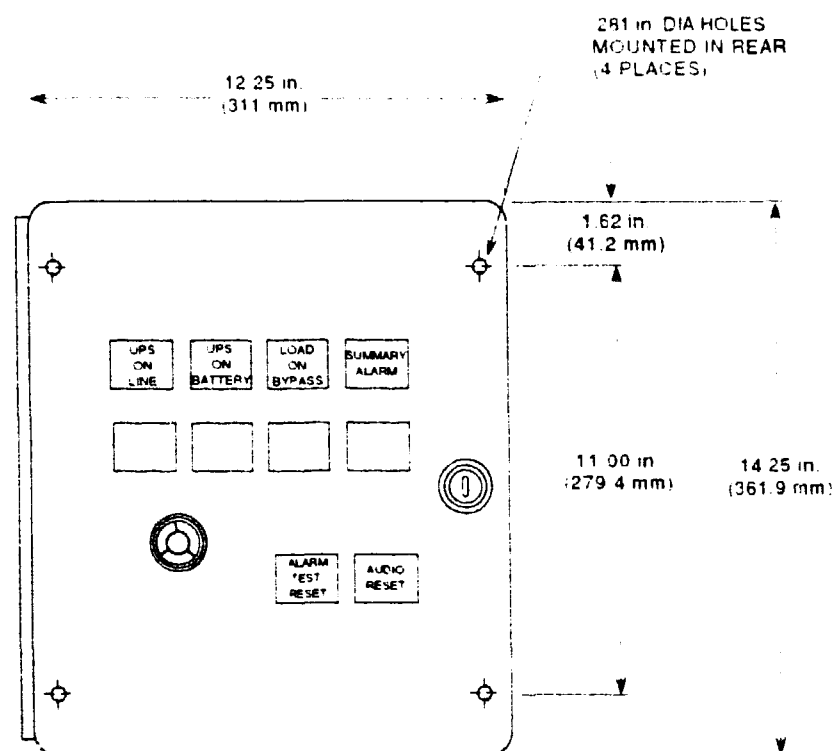
NOTES

1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE.
2. WEIGHT = 10 lbs/5 kg
3. OPTIMUM RECOMMENDED OPERATING TEMPERATURE: 77 DEGREES F (25 DEGREES C)
4. REFER TO UPS INSTALLATION DRAWING: FOR 20-40 kVA RATED UPS OR FOR 60-80 kVA RATED UPS
5. CABLE ENTRY AREA IS AVAILABLE ON THE RIGHT-HAND SIDE ONLY.
6. ALL EXTERNAL WIRING ROUTED AND CONNECTED BY CUSTOMER.
7. REFER TO HA3000 UPS USER GUIDE (EK-HA32X-UG) FOR OPERATIONS AND INSTRUCTIONS.
8. ONE ADDITIONAL REMOTE STATUS PANEL CAN BE ADDED IN PARALLEL. FOLLOW THE SAME WIRING DIAGRAM AS SHOWN.



ASSEMBLY PROCEDURES

1. DESKTOP MOUNT
 - A. REMOVE THE TWO SCREWS THAT MOUNT THE REMOTE STATUS PANEL TO THE ENCLOSURE
 - B. SLIDE UP THE REMOTE STATUS PANEL
 - C. THE TERMINAL BLOCK IS LOCATED ON THE RIGHT SIDE OF THE MOUNTED PCB
 - D. WIRE ACCORDING TO WIRING DIAGRAM PROVIDED
2. WALLMOUNT
 - A. REMOVE THE TWO SCREWS THAT MOUNT THE REMOTE STATUS PANEL TO THE ENCLOSURE
 - B. REMOVE PRINTED CIRCUIT BOARD LOCATED AT THE BACK OF THE ENCLOSURE
 - C. REMOVE THE BACK BRACKET BY REMOVING THE THREE SCREWS
 - D. MOUNT BACK PANEL TO THE WALL
 - E. INSTALL THE PRINTED CIRCUIT BOARD
 - F. WIRE ACCORDING TO THE WIRING DIAGRAM PROVIDED



NOTES:

1. APPROXIMATE WEIGHT 25 lbs (11.34 kg).
2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF ENCLOSURE, EXCLUDING HARDWARE, LOCKS, KEYS, AND SO FORTH.
3. ALL WIRING IS PROVIDED, ROUTED, AND CONNECTED BY THE CUSTOMER.
4. FOR FUNCTIONS AND OPERATION, REFER TO THE HA3000 UPS USER GUIDE (EK-HA32X-UG).

NOTES:

1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE CABINET, EXCLUDING DOOR LOCKS AND ALL HARDWARE. DIMENSIONS IN PARENTHESIS ARE METRIC.

2. A 3/32 ALLEN KEY IS REQUIRED TO OPEN THE DOOR.

3. FRONT AND BACK COVER PLATES ARE PACKAGED SEPARATELY AND SHIPPED INSIDE THE UPS CSA CABINET CONTAINER.

4. OPTIMUM RECOMMENDED OPERATING TEMPERATURE:
77 DEGREES F (25 DEGREES C)

5 UPS CSA CABINETS MUST BE INSTALLED ON THE RIGHT SIDE OF THE HA32A UPS CABINET OR THE RIGHT SIDE OF THE UPS AUXILIARY CABINET. DIGITAL WILL PROVIDE ALL POWER AND CONTROL CABLES BETWEEN THE HA32A UPS CABINET AND THE UPS CSA CABINET.

6. SIDE PANELS ARE NOT PROVIDED WITH UPS CSA CABINETS. REMOVE SIDE PANEL FROM HA32A UPS CABINET AND ATTACH TO THE RIGHT SIDE OF THE UPS CSA CABINET.

7. THE OVERALL CENTER OF GRAVITY WITH BOTH OPTIONS INSTALLED, USING THE LOWER LEFT FRONT CORNER OF THE UPS CSA CABINET AS ZERO REFERENCE, IS LOCATED APPROXIMATELY AT 6.91 INCHES (176 mm) TO THE RIGHT, 14.96 INCHES (380 mm) DEEP AND 21.68 INCHES (551 mm) HIGH.

8 ALL EXTERNAL WIRING IS SUPPLIED AND CONNECTED BY CUSTOMER. REFER TO THE HA3000 20-80 KVA UNINTERRUPTIBLE POWER SYSTEM INSTALLATION MANUAL (EK-HA32X-IN).

9. MINIMUM SERVICE CLEARANCE: FRONT 48 INCHES (1.2 m).
REAR 24 INCHES (.6 m), TOP 36 INCHES (.9 m).

10. HEAT GENERATION:

kVA	MAX. HEAT GENERATION (BTU) BOTH OPTIONS: INPUT (SOL/STEPDOWN TRANSFORMER AND CSA ASSEMBLY)
20	2,638
40	5,276
60	7,914
80	13,190

11. APPROXIMATE WEIGHT:

KVA	WEIGHT (LBS/KG)	
	WITH CSA ASSY HA33F-xx ONLY	WITH BOTH INPUT ISOL STEP DOWN XFMR & CSA ASSY HA33D-xx
20	215/98	465/211
40	215/98	565/256
60	215/98	735/333
80	215/98	865/392

AREA FOR CABLE FEED
BETWEEN UPS CABINET
AND UPS CSA
CABINET

**HOLES FOR MOUNTING
UPS CSA CABINET
TO UPS CABINET OR UPS
AUXILIARY CABINET**

REMOVABLE TOP PANEL

— AIR EXHAUST
PERFORATED PANEL
DO NOT OBSTRUCT

– MAXIMUM DOOR SWING 170°

REMOVABLE COVER PLATE
AREA FOR CABLE ENTRY

TOP VIEW

— ALLEN KEY LOCK

AIR INTAKE
DO NOT BLOCK

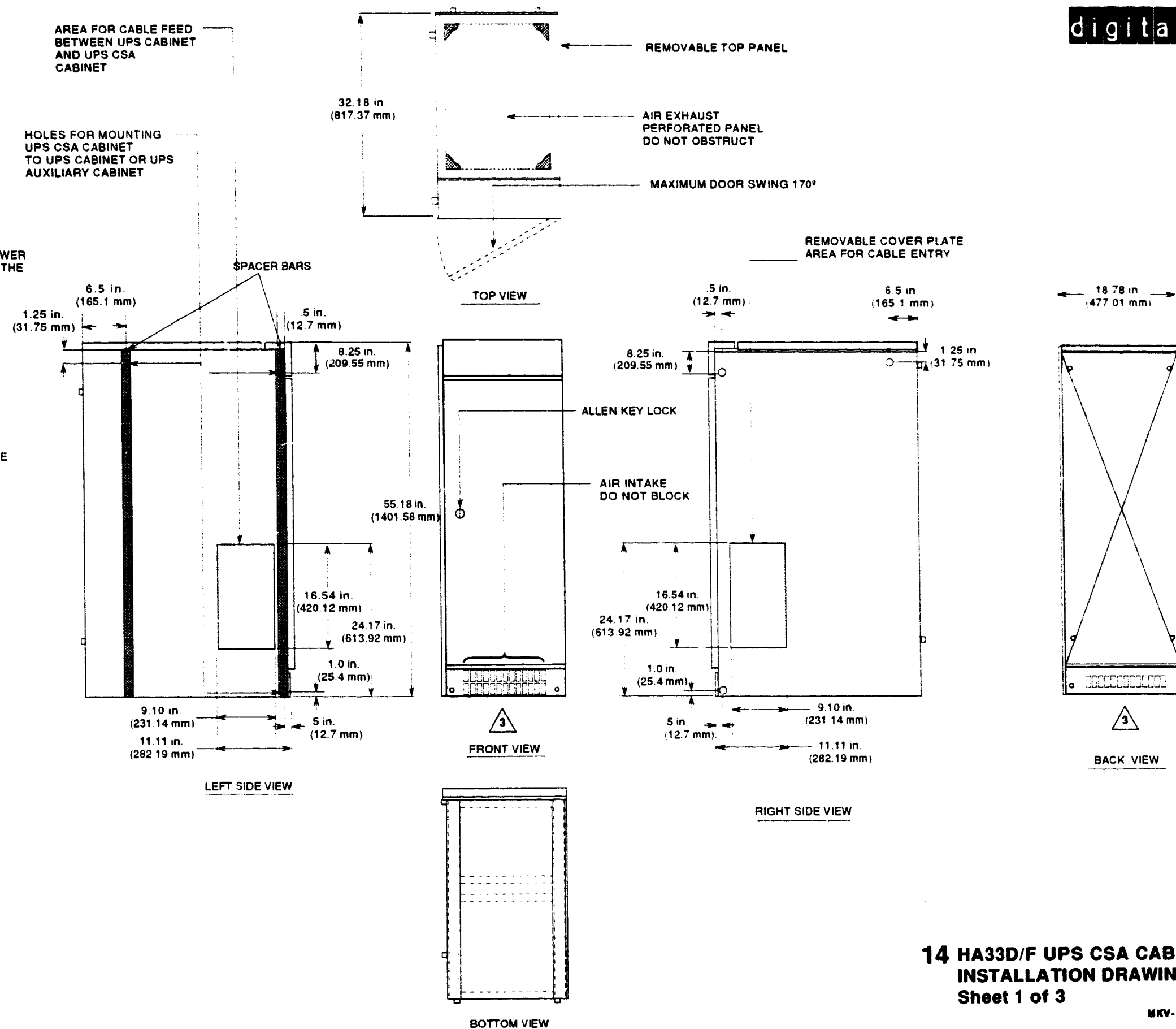
FRONT VIEW

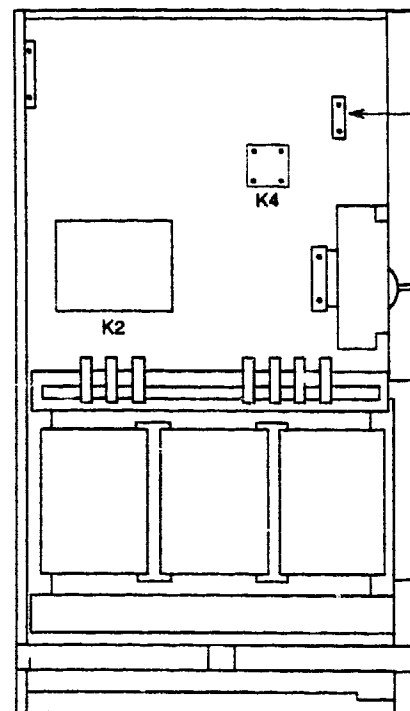
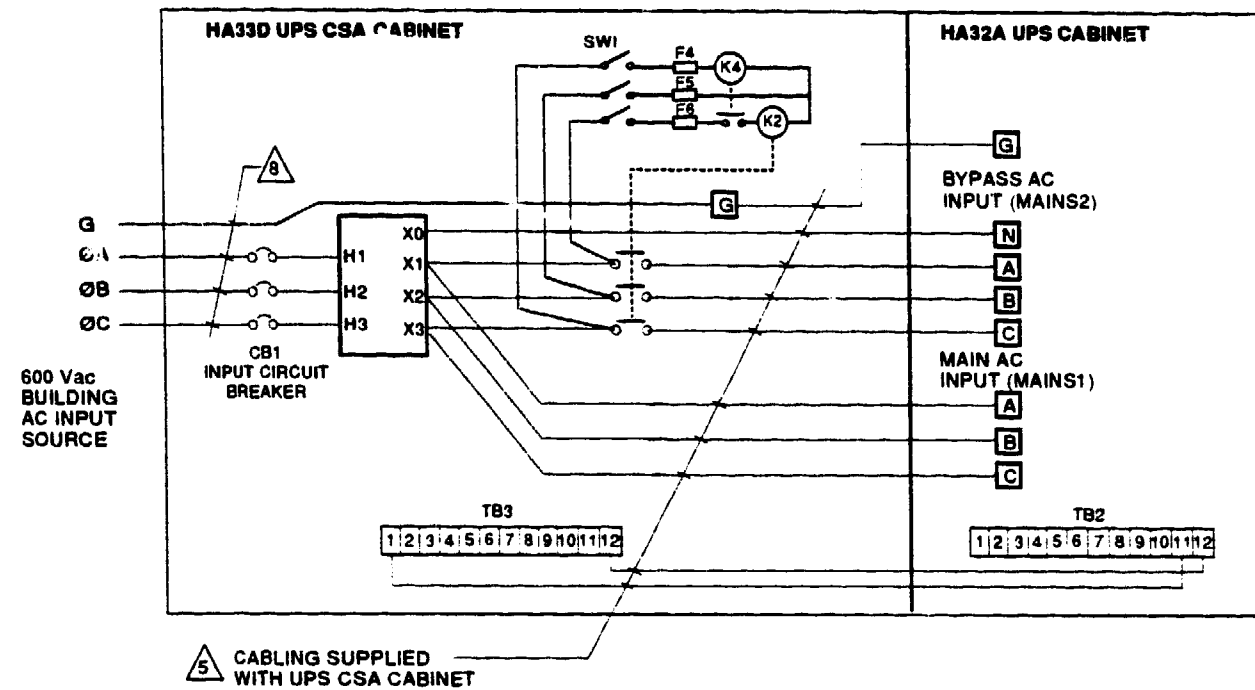
BACK VIEW

RIGHT SIDE VIEW

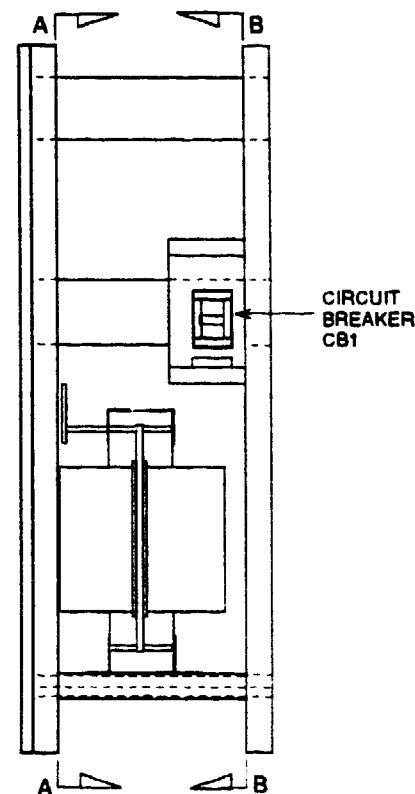
BOTTOM VIEW

LEFT SIDE VIEW

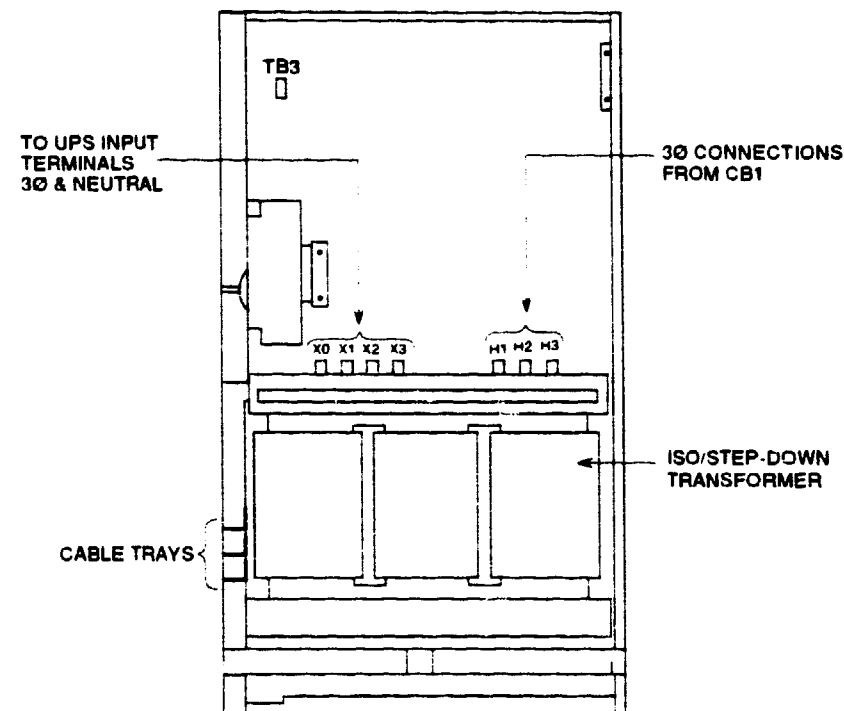




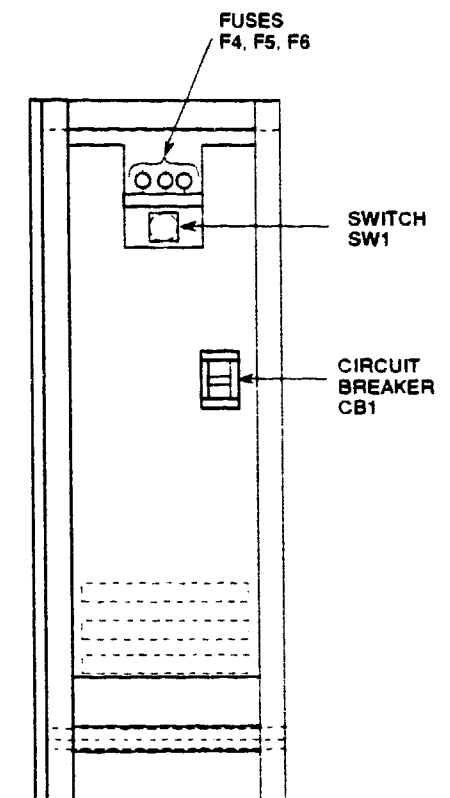
SECTION A-A



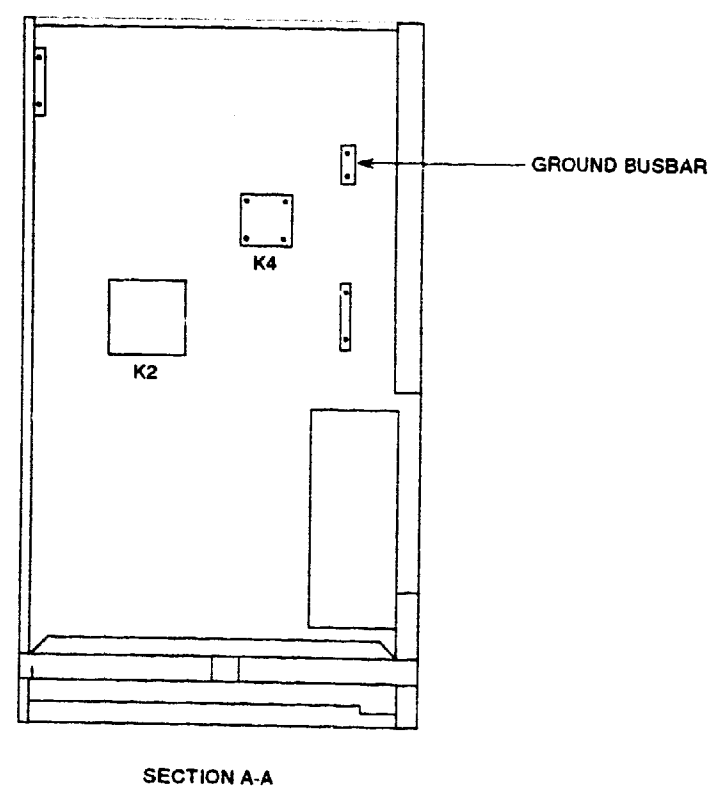
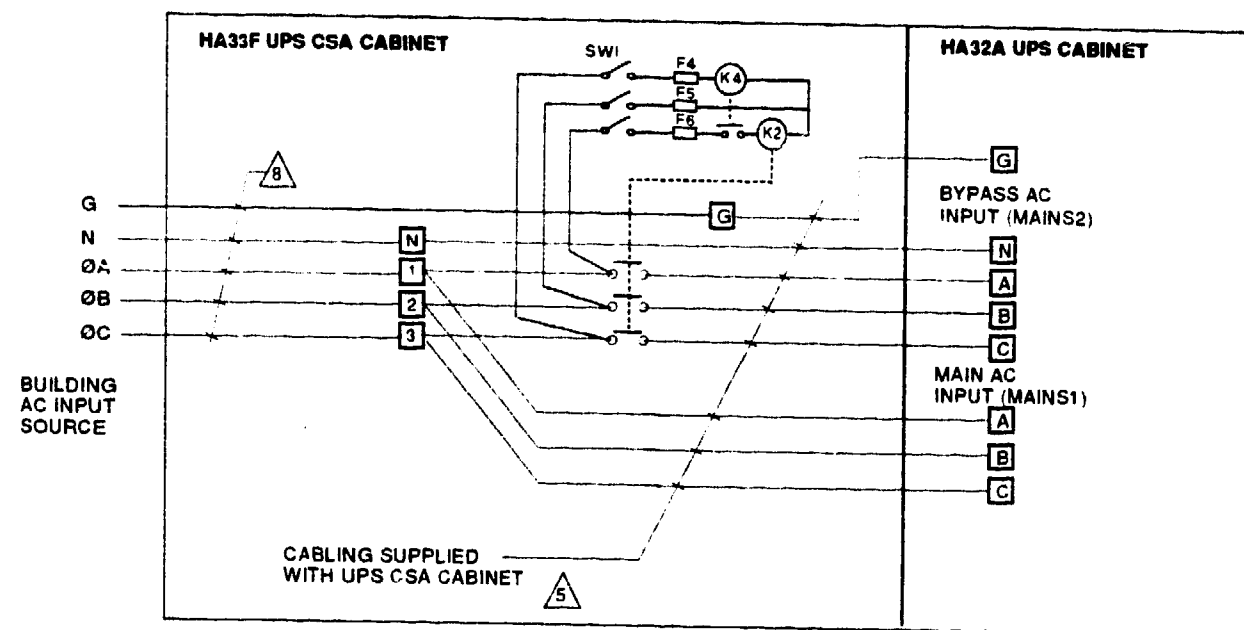
FRONT VIEW
PANEL REMOVED



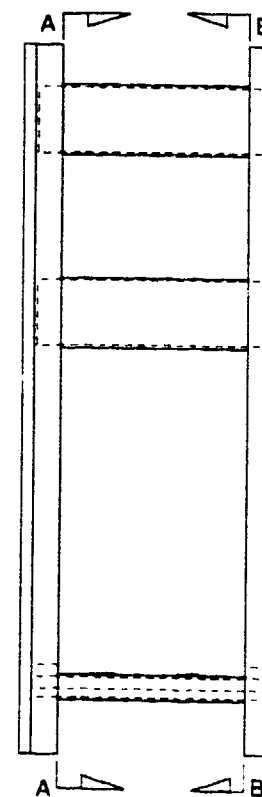
SECTION B-B



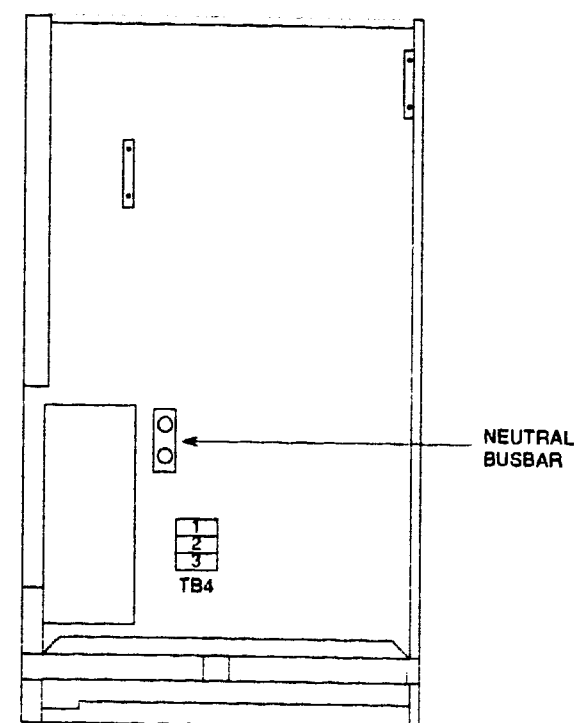
FRONT VIEW
WITH PANELS



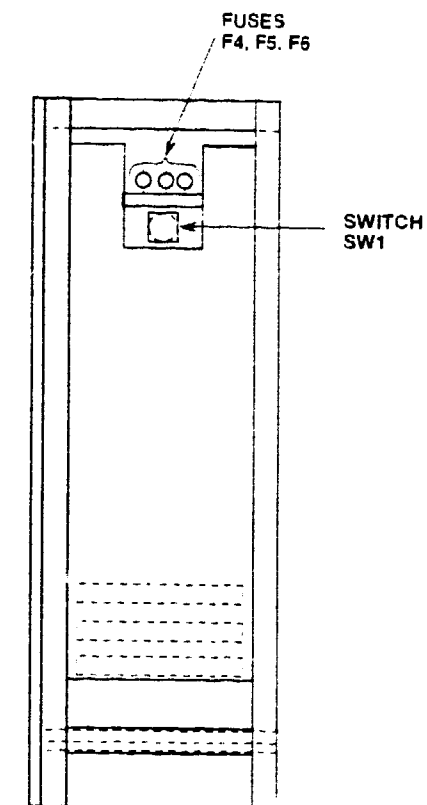
SECTION A-A



FRONT VIEW
PANELS REMOVED



SECTION B-B



FRONT VIEW
WITH PANELS

**16 HA33F UPS CSA CABINET
INSTALLATION DRAWING**
Sheet 3 of 3