1. FOR OPTIONAL MOUNTING BRACKETS USE SHIPPING BRACKETS.
2. CENTER OF GRAVITY AND WEIGHT: SEE TABLE
3. THE SYSTEM MUST BE INSTALLED ON A LEVEL FLOOR SURFACE SUITABLE FOR
   COMPUTER OR ELECTRONIC EQUIPMENT.
4. THE SYSTEM MUST BE INSTALLED IN A TEMPERATURE AND HUMIDITY CONTROLLED
   AIR-CONDITIONED OR AIR-CONDITIONED INDOOR AREA FREE OF CONDUCTIVE
   CONTAMINANTS.
5. AMBIENT TEMPERATURE RANGE 54°F - 90°F (12°C – 32°C) MAXIMUM RELATIVE HUMIDITY 95% NON-CONDENSING
6. MINIMUM 900MM (35.4 IN) REAR ACCESS NEEDED FOR SERVICING.
7. MINIMUM 400MM (15.7 IN) CLEARANCE IN REAR NOT INCLUDING CUSTOMER
   CONNECTION COVER, IS NEEDED FOR VENTILATION EXHAUST.
8. MINIMUM 575MM (22.6 IN) CLEARANCE IN FRONT IS NEEDED FOR COOLING AIR INTAKE
   AND DOOR SWING.
9. THE UPS CABINET CAN BE INSTALLED IN LINE-UP-AND-MATCH OR STANDALONE
   CONFIGURATIONS.
10. BOTTOM OR TOP CABLE ENTRY THROUGH REMOVABLE CONDUIT LANDING PLATE.
    PLATE SHALL BE CUSTOM MODIFIED TO SUIT CONDUIT SIZES.
11. ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRIC CODES.
12. AC INPUT TO UPS RECTIFIER (0.98 MIN PF): 3 PHASES, 1 NEUTRAL, 1 GROUND.
    AC OUTPUT TO LOAD: 3 PHASES, 1 NEUTRAL, 1 GROUND.
    DC INPUT TO UPS (EXTERNAL BATTERY ONLY): 1 POSITIVE, 1 NEGATIVE, 1 GROUND.
13. SPECIFICATIONS ARE SUBJECT TO CHANGE.

**NOTE: UPS POSITIONS SHOWN ARE REQUIRED FOR ALL CONFIGURATIONS**
NOTES
1. FOR OPTIONAL MOUNTING BRACKETS USE SHIPPING BRACKETS.
2. CENTER OF GRAVITY AND WEIGHT: SEE TABLE
3. THE SYSTEM MUST BE INSTALLED ON A LEVEL FLOOR SURFACE SUITABLE FOR
   COMPUTER OR ELECTRONIC EQUIPMENT.
4. THE SYSTEM MUST BE INSTALLED IN A TEMPERATURE AND HUMIDITY CONTROLLED
   INDOOR AREA FREE OF CONDUCTIVE CONTAMINANTS.
5. AMBIENT TEMPERATURE RANGE 54-90°F (12-32°C) RECOMMENDED OPERATING
   TEMPERATURE RANGE 50-95°F (10-35°C) NON-CONDENSING.
6. MINIMUM 900MM (36 IN) FRONT ACCESS AND 900MM (36 IN) REAR ACCESS NEEDED
   FOR SERVICING.
7. MINIMUM 400 MM (15.7 IN) CLEARANCE IN REAR, NOT INCLUDING CUSTOMER
   CONNECTION COVER, 15 IN NEEDED FOR VENTILATION EXHAUST.
8. MINIMUM 575MM (22.6 IN) CLEARANCE IN FRONT IS NEEDED FOR COOLING AIR INTAKE
   AND DOOR SWING.
9. THE UPS CABINET CAN BE INSTALLED IN LINE-UP-AND-MATCH OR STANDALONE
   CONFIGURATIONS.
10. BOTTOM OR TOP CABLE ENTRY THROUGH REMOVABLE CONDUIT LANDING PLATE.
    PLATE SHALL BE CUSTOM MODIFIED TO SUIT CONDUIT SIZES.
11. ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRIC CODES.
12. AC INPUT TO UPS RECTIFIER (0.98 MIN PF): 3 PHASES, 1 NEUTRAL, 1 GROUND.
13. DC INPUT TO UPS (EXTERNAL BATTERY ONLY): 1 POSITIVE, 1 NEGATIVE, 1 GROUND.
14. SPECIFICATIONS ARE SUBJECT TO CHANGE.

**NOTE: UPS POSITIONS SHOWN ARE REQUIRED FOR ALL CONFIGURATIONS**

TOP ENTRY

FRONT VIEW

RIGHT SIDE VIEW

3 HIGH

RIGHT SIDE VIEW (OUTSIDE PANEL REMOVED) BOTTOM ENTRY CONFIGURATION

REAR VIEW (REAR PANELS REMOVED) BOTTOM ENTRY CONFIGURATION

METRIC

EATON CORPORATION
NOTES:
1. FOR OPTIONAL MOUNTING BRACKETS USE SHIPPING BRACKETS.
2. CENTER OF GRAVITY AND WEIGHT: SEE TABLE
3. THE SYSTEM MUST BE INSTALLED ON A LEVEL FLOOR SURFACE SUITABLE FOR COMPUTER OR ELECTRONIC EQUIPMENT
4. THE SYSTEM MUST BE INSTALLED IN A TEMPERATURE AND HUMIDITY CONTROLLED INDOOR AREA FREE OF CONDUCTIVE CONTAMINANTS
5. AMBIENT TEMPERATURE RANGE: 0°C TO 40°C (32°F TO 104°F)
6. MINIMUM 500MM (19.7 IN) REAR ACCESS NEEDED FOR CONSTRUCTION AND FIELD INSTALLATION
7. MINIMUM 400 MM (15.7 IN) CLEARANCE IN REAR, NOT INCLUDING CUSTOMER CONNECTION COVER. IS NEEDED FOR VENTILATION EXHAUST
8. MINIMUM 575MM (22.5 IN) CLEARANCE IN FRONT IS NEEDED FOR COOLING AIR INTAKE AND DOOR SWINGING
9. THE UPS CABINET CAN BE INSTALLED IN LINE-UP-AND-MATCH OR STANDALONE CONFIGURATIONS
10. BOTTOM OR TOP CABLE ENTRY THROUGH REMOVABLE CONDUIT LANDING PLATE
11. ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRIC CODES
12. AC INPUT TO UPS RECTIFIER (0.98 MIN PF): 3 PHASES, 1 NEUTRAL, 1 GROUND
13. DC INPUT TO UPS (EXTERNAL BATTERY ONLY): 1 POSITIVE, 1 NEGATIVE, 1 GROUND

**NOTE: UPS POSITIONS SHOWN ARE REQUIRED FOR ALL CONFIGURATIONS

WEIGHT AND CENTER OF GRAVITY TOP ENTRY CONFIGURATION

<table>
<thead>
<tr>
<th>CONFIGURATION</th>
<th>HEIGHT</th>
<th>G</th>
<th>A (IN/CM)</th>
<th>B (IN/CM)</th>
<th>C (IN/CM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP ENTRY</td>
<td>2 HIGH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. For optional mounting brackets use shipping brackets.
2. Center of gravity and height, see table.
3. The system must be installed on a level, floor surface suitable for computer or electronic equipment.
4. The system must be installed in a temperature and humidity controlled indoor area free of conductive contaminants.
5. Maximum ambient temperature: -10°C (14°F) to 40°C (104°F), maximum relative humidity: 95% non-condensing.
6. Minimum vertical space (in front access and minimum 36 in rear access needed for servicing).
7. Minimum 14 in (35.6 cm) clearance in rear, not including customer connection cover, is needed for ventilation exhaust.
8. Minimum 24 in (60 cm) clearance in front is needed for cooling air intake and door swing.
9. The UPS cabinet can be installed in line-up-and-match or standalone configurations.
10. Bottom or top cable entry through removable conduit landing plate. Plate shall be custom modified to suit conduit sizes.
11. All wiring is to be in accordance with National and Local Electric Codes.
12. AC input to UPS rectifier (0.98 min PF): 3 phases, 1 neutral, 1 ground. AC output to load: 3 phases, 1 neutral, 1 ground. DC input to UPS (external battery only): 1 positive, 1 negative, 1 ground.
13. Specifications are subject to change.

**Note:** UPS positions shown are required for all configurations.
1. For optional mounting brackets use shipping brackets.
2. Center of gravity and weight: see table.
3. The system must be installed on a level floor surface suitable for computer or electronic equipment.
4. The system must be installed in a temperature and humidity controlled indoor area free of conductive contaminants.
5. Ambient temperature range: 0°C to 40°C (32°F to 104°F). Recommended operating range: 20°C to 25°C (68°F to 77°F). Maximum relative humidity: 95% non-condensing.
6. Minimum 360 mm (14.17") front access and 900 mm (35.4") rear access needed for servicing.
7. Minimum 800 mm (31.5") clearance in rear, not including customer connection cover, is needed for ventilation exhaust.
8. Minimum 254 mm (10") clearance in front is needed for cooling air intake and door swing.
9. The UPS cabinet can be installed in line-up-and-match or standalone configurations.
10. Bottom or top cable entry through removable conduit landing plate. Plate shall be custom modified to suit conduit sizes.
11. All wiring is to be in accordance with national and local electric codes.
12. AC input to UPS rectifier: 3 phases, 1 neutral, 1 ground.
13. DC input to UPS (external battery only): 1 positive, 1 negative, 1 ground.

Specifications are subject to change.

Notes:
- Input/output and input/output power cord.
- Battery breaker.
- Input breaker.
- Load breaker.
- Repo (NC).
- Front view.
- Right side view.
- Top entry.
- Top entry (outside panel removed) bottom entry.
- Rear view (rear panels removed) bottom entry configuration.

**Note:** UPS positions shown are required for all configurations.

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NOTES
1. FOR OPTIONAL MOUNTING BRACKETS USE SHIPPING BRACKETS.
2. CENTER OF GRAVITY AND WEIGHT: SEE TABLE
3. THE SYSTEM MUST BE INSTALLED ON A LEVEL FLOOR SURFACE SUITABLE FOR
   COMPUTER OR ELECTRONIC EQUIPMENT.
4. THE SYSTEM MUST BE INSTALLED IN A TEMPERATURE AND HUMIDITY CONTROLLED
   AREA FREE OF CONDUCTIVE CONTAMINANTS.
5. AMBIENT TEMPERATURE RANGE 0°C/32°F TO 50°C/122°F RECOMMENDED OPERATING
   RANGE 20°C/68°F TO 30°C/86°F MAXIMUM RELATIVE HUMIDITY: 95% NON-CONDENSING
6. MINIMUM 900MM (36 IN) FRONT ACCESS AND 900MM (36 IN) REAR ACCESS NEEDED
   FOR SERVICING.
7. MINIMUM 400 MM (15.7 IN) CLEARANCE IN REAR, NOT INCLUDING CUSTOMER
   CONNECTION COVER, IS NEEDED FOR VENTILATION EXHAUST.
8. MINIMUM 575MM (22.6 IN) CLEARANCE IN FRONT IS NEEDED FOR COOLING AIR INTAKE
   AND DOOR SWING.
9. THE UPS CABINET CAN BE INSTALLED IN LINE-UP AND MATCH OR STANDALONE
   CONFIGURATIONS.
10. BOTTOM OR TOP CABLE ENTRY THROUGH REMOVABLE CONDUIT LANDING PLATE.
    PLATE SHALL BE CUSTOM MODIFIED TO SUIT CONDUIT SIZES.
11. ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRIC CODES.
12. AC INPUT TO UPS RECTIFIER (0.98 MIN PF): 3 PHASES, 1 NEUTRAL, 1 GROUND.
    DC INPUT TO UPS (EXTERNAL BATTERY ONLY): 1 POSITIVE, 1 NEGATIVE, 1 GROUND.
13. SPECIFICATIONS ARE SUBJECT TO CHANGE.

**NOTE: UPS POSITIONS SHOWN ARE REQUIRED FOR ALL CONFIGURATIONS**

METRIC

EATON CORPORATION

DESCRIPTION: BLADEUPS SITEPLAN CRM-PR (PRECONFIG-WRITELINE) W/4-POS BLADEBAR (TOP ENTRY)

NOTE: UPS POSITIONS SHOWN ARE REQUIRED FOR ALL CONFIGURATIONS

WEATHER LABORATORY 2018

<ASSESSMENT>
1. For optional mounting brackets use shipping brackets.
2. Center of gravity and weight see table.
3. The system must be installed on a level floor surface suitable for computer or electronic equipment.
4. Site must be temperature and humidity controlled indoor area free of conductive contaminants.
5. Ambient temperature range, 0°C (32°F) to 35°C (95°F). Recommended operating range: 20°C (68°F) maximum relative humidity 95%, non-condensing.
6. Minimum 630 mm (25 in) front access and Knox or rear access needed for servicing.
7. Minimum 150 mm (6 in) clearance in rear, not including customer connection cover, is needed for ventilation exhaust.
8. Minimum 225 mm (9 in) clearance in front is needed for cooling air intake.
9. The UPS cabinet can be installed in line-up-and-match or standalone configurations.
10. Bottom or top cable entry through removable conduit landing plate. Plate shall be custom modified to suit conduit sizes.
11. All wiring is to be in accordance with national and local electric codes.
12. AC input to UPS rectifier (0.98 min PF): 3 phases, 1 neutral, 1 ground.
13. DC input to UPS (external battery only): 1 positive, 1 negative, 1 ground.
14. Specifications are subject to change.

**NOTE: UPS positions shown are required for all configurations**

- **INPUT/OUTPUT POWER CORD**
- **BATTERY BREAKER**
- **INPUT BREAKER**
- **LOAD BREAKER**
- **REPO (NC)**

---

**WEIGHT AND CENTER OF GRAVITY**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Rack W/ 3 UPS with MBM</th>
<th>897</th>
<th>341</th>
<th>234</th>
</tr>
</thead>
</table>

**NOTES:**

- Weight: 635.4 kg (1401 lbs)
- Rack W/ 3 UPS with MBM
- Top entry configuration

---

**METRIC EATON CORPORATION**

**DESCRIPTION:** BLADEUPS SITE PLAN 3/4IN (PRECONFIG-WIGHTLINE) W/L-POS BLADERAB (TOP ENTRY)

**DATE:** 31-MAY-97

---

**CONTACT:**

- **MAILING ADDRESS:**
- **PHONE:**
- **FACSIMILE:**

---

**DRAWING:** P-11000015-004

---

**SPECIFICATIONS:**

- **REVISION:**
- **DOCUMENT NUMBER:**
- **DRAWING NUMBER:**
1. FOR OPTIONAL MOUNTING BRACKETS USE SHIPPING BRACKETS.
2. CENTER OF GRAVITY AND WEIGHT: SEE TABLE
3. THE SYSTEM MUST BE INSTALLED ON A LEVEL FLOOR SURFACE SUITABLE FOR
   COMPUTER OR ELECTRONIC EQUIPMENT.
4. THE SYSTEM MUST BE INSTALLED IN A TEMPERATURE AND HUMIDITY CONTROLLED
   INDOR AREA FREE OF CONDUCTIVE CONTAMINANTS.
5. AMBIENT TEMPERATURE RANGE 5-40°C (41-104°F). RECOMMENDED OPERATING
   RANGE: 20-25°C (68-77°F) MAXIMUM RELATIVE HUMIDITY: 95% NON-CONDENSING.
6. MINIMUM 900MM (36 IN) FRONT ACCESS AND 900MM (36 IN) REAR ACCESS NEEDED
   FOR SERVICING.
7. MINIMUM 400 MM (15.7 IN) CLEARANCE IN REAR, NOT INCLUDING CUSTOMER
   CONNECTION COVER, IS NEEDED FOR VENTILATION EXHAUST.
8. MINIMUM 575MM (22.6 IN) CLEARANCE IN FRONT IS NEEDED FOR COOLING AIR INTAKE
   AND DOOR SWING.
9. THE UPS CABINET CAN BE INSTALLED IN LINE-UP-AND-MATCH OR STANDALONE
   CONFIGURATIONS.
10. BOTTOM OR TOP CABLE ENTRY THROUGH REMOVABLE CONDUIT LANDING PLATE.
   PLATE SHALL BE CUSTOM MODIFIED TO SUIT CONDUIT SIZES.
11. ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRIC CODES.
12. AC INPUT TO UPS RECTIFIER (0.98 MIN PF): 3 PHASES, 1 NEUTRAL, 1 GROUND.
    AC OUTPUT TO LOAD: 3 PHASES, 1 NEUTRAL, 1 GROUND.
    DC INPUT TO UPS (EXTERNAL BATTERY ONLY) 1 POSITIVE, 1 NEGATIVE, 1 GROUND.
13. SPECIFICATIONS ARE SUBJECT TO CHANGE.
NOTES
1. FOR OPTIONAL MOUNTING BRACKETS USE SHIPPING BRACKETS.
2. CENTER OF GRAVITY AND WEIGHT: SEE TABLE
3. THE SYSTEM MUST BE INSTALLED ON A LEVEL FLOOR SURFACE SUITABLE FOR
   COMPUTER OR ELECTRONIC EQUIPMENT.
4. THE SYSTEM MUST BE INSTALLED IN A TEMPERATURE AND HUMIDITY CONTROLLED
   INDOOR AREA FREE OF CONDUCTIVE CONTAMINANTS.
5. AMBIENT TEMPERATURE RANGE: 20°C (68°F) MAXIMUM RELATIVE HUMIDITY: 90% NON-CONDENSING.
6. MINIMUM IMAX= 50% FRONT ACCESS AND 40% REAR ACCESS NEEDED FOR SERVICING.
7. MINIMUM 900MM (36 IN) FRONT ACCESS AND 900MM (36 IN) REAR ACCESS NEEDED
   FOR SERVICING.
8. MINIMUM 400 MM (15.7 IN) CLEARANCE IN REAR, NOT INCLUDING CUSTOMER
   CONNECTION COVER, IS NEEDED FOR VENTILATION EXHAUST.
9. MINIMUM 575MM (22.6 IN) CLEARANCE IN FRONT IS NEEDED FOR COOLING AIR INTAKE
   AND DOOR SWING.
10. MINIMUM 900MM (36 IN) FRONT ACCESS AND 900MM (36 IN) REAR ACCESS NEEDED
    FOR SERVICING.
11. MINIMUM 400 MM (15.7 IN) CLEARANCE IN REAR, NOT INCLUDING CUSTOMER
    CONNECTION COVER, IS NEEDED FOR VENTILATION EXHAUST.
12. MINIMUM 575MM (22.6 IN) CLEARANCE IN FRONT IS NEEDED FOR COOLING AIR INTAKE
    AND DOOR SWING.
13. SPECIFICATIONS ARE SUBJECT TO CHANGE.

**NOTE: UPS POSITIONS SHOWN ARE REQUIRED FOR ALL CONFIGURATIONS**

METRIC
EATON CORPORATION

DESCRIPTION: BLADEUPS SITEPLAN DWG (PRECONFIG-WIRELINE) W/L-POS BLADEBAR (TOP ENTRY)

RACK W/ 1 UPS WITH MBM
343.4 kg [757 lbs]

CONFIGURATION
A B C
917 [36.10]
384 [15.12]
242 [9.53]

TOP ENTRY CONFIGURATION
A B C
917 [36.10]
384 [15.12]
242 [9.53]

**NOTE: UPS POSITIONS SHOWN ARE REQUIRED FOR ALL CONFIGURATIONS**
TABLE 1 - PRODUCT SPECIFICATIONS

| NUMBER OF UPS MODULES | UPS RATING | AC INPUT VOLTAGE | AC OUTPUT VOLTAGE | INTERNAL BREAKER RATINGS | RATED AC INPUT CURRENT | RATED AC OUTPUT CURRENT | INTERNAL BREAKER RATINGS | RATED DC INPUT CURRENT | RATED DC OUTPUT CURRENT | INPUT-OUTPUT DC BKR RATINGS | INTERNAL INPUT-OUTPUT DC BKR RATINGS | INTERNAL DC BKR RATINGS | DC IN | DC OUT | DC IN | DC OUT | DC IN | DC OUT | DC IN | DC OUT | DC IN | DC OUT |
|-----------------------|------------|-------------------|-------------------|--------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|--------------------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1                     | 12         | 208/120           | 208/120           | 50A                      | 36                     | 33.3                   | 50                       | 1.2 [4094]               |                          |                          |                              |                          | 70A                         | 70A | 70A | 70A | 70A | 70A | 70A | 70A | 70A | 70A | 70A |
| 2                     | 24         | 208/120           | 208/120           | 50A                      | 72                     | 66.6                   | 100                      | 2.4 [6088]               |                          |                          |                              |                          | 140A                        | 140A | 140A | 140A | 140A | 140A | 140A | 140A | 140A | 140A | 140A |
| 3                     | 36         | 208/120           | 208/120           | 50A                      | 108                    | 99.9                   | 150                      | 3.6 [12082]              |                          |                          |                              |                          | 210A                        | 210A | 210A | 210A | 210A | 210A | 210A | 210A | 210A | 210A | 210A |
| 4                     | 48         | 208/120           | 208/120           | 50A                      | 144                    | 133.2                  | 200                      | 4.8 [16376]              |                          |                          |                              |                          | 280A                        | 280A | 280A | 280A | 280A | 280A | 280A | 280A | 280A | 280A | 280A |
| 1                     | 12         | 400/230           | 400/230           | 30A                      | 36                     | 33.3                   | 50                       | 1.2 [4094]               |                          |                          |                              |                          | 70A                         | 70A | 70A | 70A | 70A | 70A | 70A | 70A | 70A | 70A | 70A |
| 2                     | 24         | 400/230           | 400/230           | 30A                      | 72                     | 66.6                   | 100                      | 2.4 [6088]               |                          |                          |                              |                          | 140A                        | 140A | 140A | 140A | 140A | 140A | 140A | 140A | 140A | 140A | 140A |
| 3                     | 36         | 400/230           | 400/230           | 30A                      | 108                    | 99.9                   | 150                      | 3.6 [12082]              |                          |                          |                              |                          | 210A                        | 210A | 210A | 210A | 210A | 210A | 210A | 210A | 210A | 210A | 210A |
| 4                     | 48         | 400/230           | 400/230           | 30A                      | 144                    | 133.2                  | 200                      | 4.8 [16376]              |                          |                          |                              |                          | 280A                        | 280A | 280A | 280A | 280A | 280A | 280A | 280A | 280A | 280A | 280A |

TABLE 2 - CUSTOMER WIRING

<table>
<thead>
<tr>
<th>WIRE</th>
<th>ACCEPTED WIRE RANGE</th>
<th>TORQUE RATING</th>
<th>RECOMMENDED WIRE SIZE FOR COPPER STRANDED WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT PHASE WIRES</td>
<td>6 AWG TO 350 kcmil</td>
<td>31.1 [275]</td>
<td>NOTE: WIRE GAUGE DEPENDS ON OVERCURRENT PROTECTION RATING RECOMMENDED (SEE TABLE 1). REFERENCE THE NEC, NFPA 70 FOR WIRE SIZING.</td>
</tr>
<tr>
<td>INPUT NEUTRAL WIRE</td>
<td>6 AWG TO 350 kcmil</td>
<td>31.1 [275]</td>
<td></td>
</tr>
<tr>
<td>OUTPUT PHASE WIRES</td>
<td>6 AWG TO 350 kcmil</td>
<td>31.1 [275]</td>
<td></td>
</tr>
<tr>
<td>OUTPUT NEUTRAL WIRE</td>
<td>6 AWG TO 350 kcmil</td>
<td>31.1 [275]</td>
<td></td>
</tr>
<tr>
<td>GROUND WIRES</td>
<td>4 AWG TO 350 kcmil</td>
<td>31.1 [275]</td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE THE NEC, NFPA 70 FOR WIRE SIZING.