



Shop Drawing Review SDR

Project: Caledonia Riverside Exhibition Centre

Project No.: 17-056

Date: 2019-05-14

Items Reviewed: Switchgear, SB-1

The documents referenced above have only been reviewed by the Consultant for general conformance with the design concept of the Project and general compliance with the information given in the Contract Documents. All Work is subject to the requirements of the Drawings and Specifications. Review of a specific item does not constitute approval of an assembly of which the item is a component. Below are general comments, refer to shop drawings for additional or specific comments.

Review Codes:

[A] Reviewed

[B] Reviewed As Modified

[C] Revise and Resubmit

[D] For Your Information

[E] For Approval

[F] other (see notes)

| DESCRIPTION | DATE REVIEWED | REVIEW CODE |
|---------------------------|---------------|-------------|
| Eaton's Switchgear - SB-1 | 2019.05.14 | A |
| | | |
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| | | |
| | | |
| | | |

Notes:

1. Shop drawings listed above reviewed as submitted

I trust the above is satisfactory. If you have any questions or concerns, please do not hesitate to contact our office.

Regards, Dominic Panetta



L.J. Barton
Mechanical Inc.

REVIEWED

By GS Wark at 7:51 am, May 08, 2019

BUILDING
Health

1341 Osprey Drive Unit 4
Ancaster, ON L9G 4V5

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888-705-1055
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SUBMITTAL

Project Name:
Hamilton Port Authority Pier 15
19-005

Date Issued: May 8, 2019

Response Required by: May 15, 2019

To: G.S. Wark

Please find attached the following submittal:

Switchgear

| | |
|--|----------------------|
|  Electrical Engineering | |
| <input checked="" type="checkbox"/> | Reviewed |
| <input type="checkbox"/> | Reviewed as Modified |
| <input type="checkbox"/> | Revise and Resubmit |
| <small>The review of these shop drawings in no way transfers responsibility for the content or accuracy of drawings prepared by others, refer to the specifications.</small> | |
| Reviewed By: Dominic | |
| Date: 5/14/2019 | |

Please note: all lead times are an estimation only, provided by the supplier at time of submission. L.J. Barton Mechanical Inc. will not be held responsible for any additional costs incurred if product is not available as stated.

If you would like further clarification, please contact the Project Manager.

Please forward approvals to our office ASAP so the equipment and material may be ordered in a timely manner.



POW-R-LINE C

Switchgear / Appareillage de Commutation

CUSTOMER DATA

CUSTOMER : LJ BARTON
 CONSULTANT : -
 DISTRIBUTOR : WESCO HAMILTON ORDER No. : 2350-511262
 PROJECT TITLE : HAMILTON PORT AUTHORITY PIER 15
 PIER 15, 204 HILLYARD, HAMILTON, ON.
 SWGR. TAG : SB-1

SPECIFICATIONS

MAIN BUS RATING : 2000 AMP. 600Y /347 VOLTS 60 HZ. SYSTEM : 3 PHASE 4 WIRE
 SYSTEM GROUNDING - NEUTRAL SOLIDLY GROUNDED: INSIDE SWGR. REMOTE UPSTREAM
 HIGH RESISTANCE GROUNDING
 SUITABLE FOR SERVICE ENTRANCE

GENERAL NOTES

- BUILT TO : CSA STANDARD C22.2 No. 31.
- C.S.A. FILE LL47168.
- GROUND FAULT PROTECTION, WHERE SUPPLIED, WILL BE FACTORY SET AT 20% OF RATING AND 10 CYCLE TIME DELAY. CUSTOMER IS REQUIRED TO SET TO APPROPRIATE VALUE TO MEET SITE CONDITIONS AND LOCAL CODES.
- CO-ORDINATION OF PROTECTIVE DEVICES IS NOT DONE BY THE FACTORY. THE PROTECTIVE DEVICES NEED TO BE SET TO APPROPRIATE VALUES BY THE CUSTOMER AT THE TIME OF COMMISSIONING PRIOR TO ENERGIZATION TO MEET THE SITE REQUIREMENTS AND LOCAL CODES.
- ALL DOORS, HINGED AT LEFT HAND SIDE (WHERE APPLICABLE), UNLESS OTHERWISE SPECIFIED.
- FACTORY RESERVES THE RIGHT TO SUBSTITUTE PRODUCTS OF EQUAL OR HIGHER PERFORMANCE, BASED ON AVAILABILITY.
- ALL FACTORY SUPPLIED BREAKER LUGS ARE SIZED FOR TRIP UNIT RATINGS AS SHOWN ON DISTRIBUTION SECTION PAGE/S.
- ALL CT WIRING WILL BE WITH MINIMUM 12AWG WIRE UNLESS OTHERWISE SPECIFIED.
- WIRE SIZE SHALL BE BASED ON THE AMPACITY OF 75°C RATED CONDUCTORS UNLESS OTHERWISE INDICATED

SWGR SHORT CCT. RATING : 50 KA SYM. BUS BRACING : 50 KA SYM.
 MAIN BUS BAR - TIN PLATED ALUMINUM SILVER FLASHED COPPER TIN- PLATED COPPER
 BUS BARS - INSULATED BUS JOINTS BOOTED
 SWITCHGEAR ACCESS - FRONT REAR LEFTHAND SIDE RIGHTHAND SIDE

ENCLOSURE TYPE : CSA 1; INDOOR SPRINKLERPROOF
 PAINT FINISH - INTERIOR & EXTERIOR : ASA # 61 LIGHT GREY
 CONTROL PANS : WHITE

MAIN DEVICE : EATON TYPE "RGH" 80% RATED MCCB
 FRAME : 2000A 3P MOFM FUSE PROVISION :
 TRIP UNIT : DIGITRIP RMS310+ LSIG RATING PLUG : 1600A
 GROUND FAULT PROTECTION : YES GROUND FAULT SENSING TYPE : RESIDUAL

MAIN INCOMING - ENTRY BY : BOTTOM, LEFT ENTRY WITH : CABLE (6) 750 MCM STD. CU/AL MECHANICAL LUGS SUPPLIED

NAMEPLATES (FIXED WITH SCREWS)
 MIMIC BUS (FIXED WITH RIVETS) MIMIC BUS COLOUR: N/A

 **L.J. Barton**
 Mechanical Inc.
BUILDING Health
 Reviewed by: **A. Moffatt**
 Date: **05.08.2019**

IMPORTANT: IT IS THE PURCHASER'S RESPONSIBILITY TO OBTAIN ANY NECESSARY LOCAL UTILITY AND/OR PROVINCIAL INSPECTION AUTHORITY'S APPROVAL. WHEN RETURNING APPROVED DRAWINGS, THE PURCHASER SHOULD CONFIRM THAT SUCH APPROVAL HAS BEEN OBTAINED OR IS NOT REQUIRED.

SPECIAL NOTES

- Notes

2

REVISION

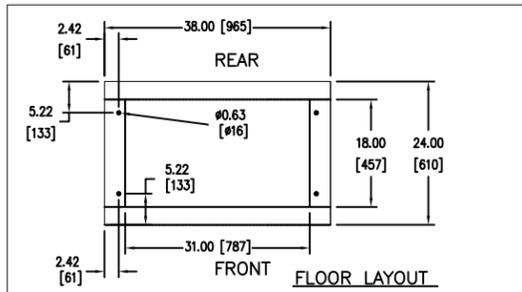
Issued For Approval

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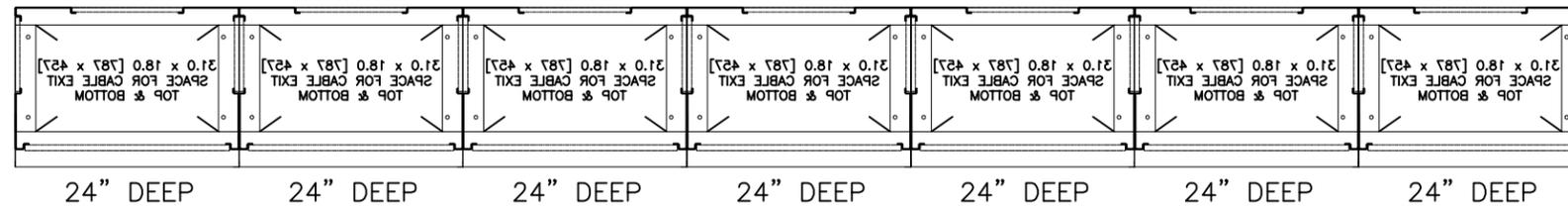
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| | |
|--------------------------------|--------------------------------|
| DFTR / DFTR | DATE / DATE |
| P.MONTPETIT | MAY 3/2019 |
| APPE / APPD | DATE / DATE |
| | |
| N° ID FÉDÉRAL / FEDERAL ID NO. | CODE DE PRODUIT / PRODUCT CODE |
| | 140 |
| REVISION / REVISION | DIM. DU DESSIN / DWG SIZE |
| 2 | B |

| | |
|---|--|
|  | 1410 55e Avenue, LACHINE, QC (H8T 3J8) |
| TITRE / HAMILTON PORT AUTHORITY PIER 15 | |
| TITLE SPECIFICATION | |
| TYPE / TYPE | SWGR |
| PRLC | |
| BON DE FABRICATION / S.O. | FEUILLE / SHEET |
| CSMU106519-001-19 | 1 DE / 12 |



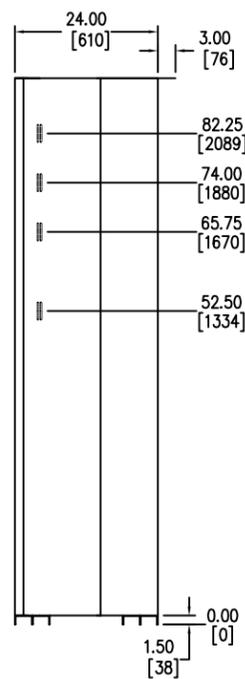
NOTE: ALL HARDWARE TO BE 0.50-13 GRADE-5 BOLTS TORQUED TO 50 FT-LBS.



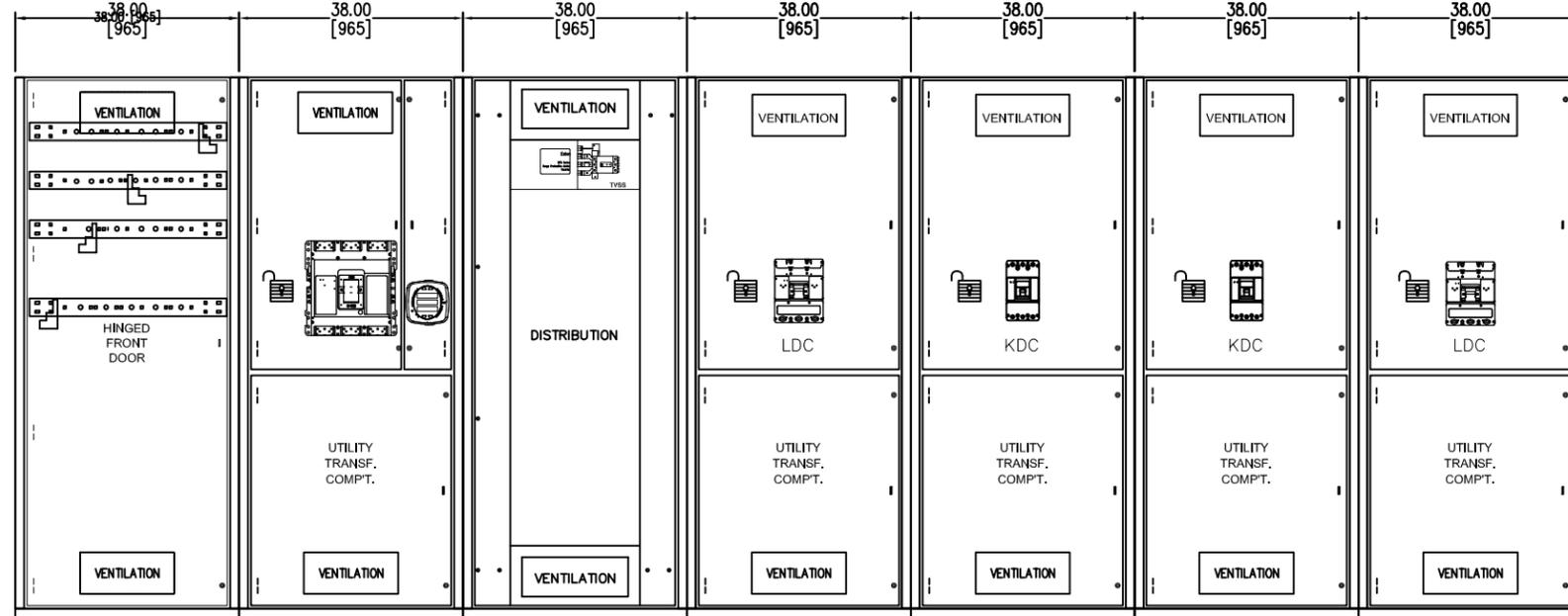
TOP/PLAN VIEW

NOTE: SWGR CELL WEIGHTS SHOWN ARE APPROXIMATE NUMBERS. REFER TO SHIPPING DOCUMENTS FOR THE ACTUAL WEIGHTS.

| CELL #. | APPROXIMATE WEIGHT | |
|---------|--------------------|-----|
| | LBs | KGs |
| 1 | 590 | 268 |
| 2 | 728 | 330 |
| 3 | 931 | 422 |
| 4 | 842 | 382 |
| 5 | 822 | 373 |
| 6 | 822 | 373 |
| 7 | 842 | 382 |

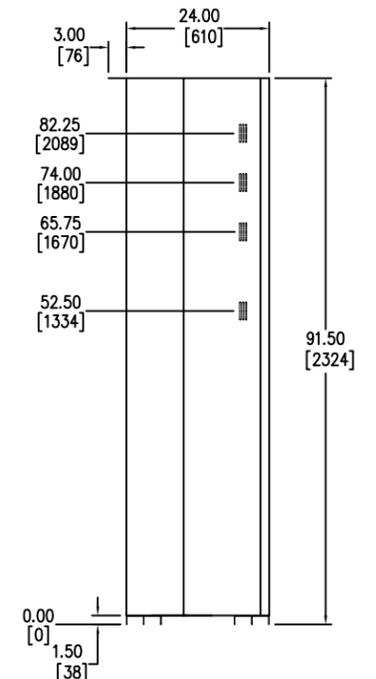


LH SIDE VIEW



FRONT VIEW

SWITCHGEAR SHIPPED IN 8 SECTIONS



RH SIDE VIEW

Dimensions in Inches [Metric]

2

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See on Page #1

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DFTR / DFTR DATE / DATE
P.MONTPETIT MAY 3/2019

APPE / APPD DATE / DATE



1410 55e Avenue, LACHINE, QC (H8T 3J8)

TITRE / HAMILTON PORT AUTHORITY PIER 15
TITLE LAYOUT

TYPE / TYPE
PRLC

SWGR

N° ID FÉDÉRAL / FEDERAL ID NO.
CODE DE PRODUIT / PRODUCT CODE
REVISION / REVISION
DIM. DU DESSIN / DWG SIZE

2
B

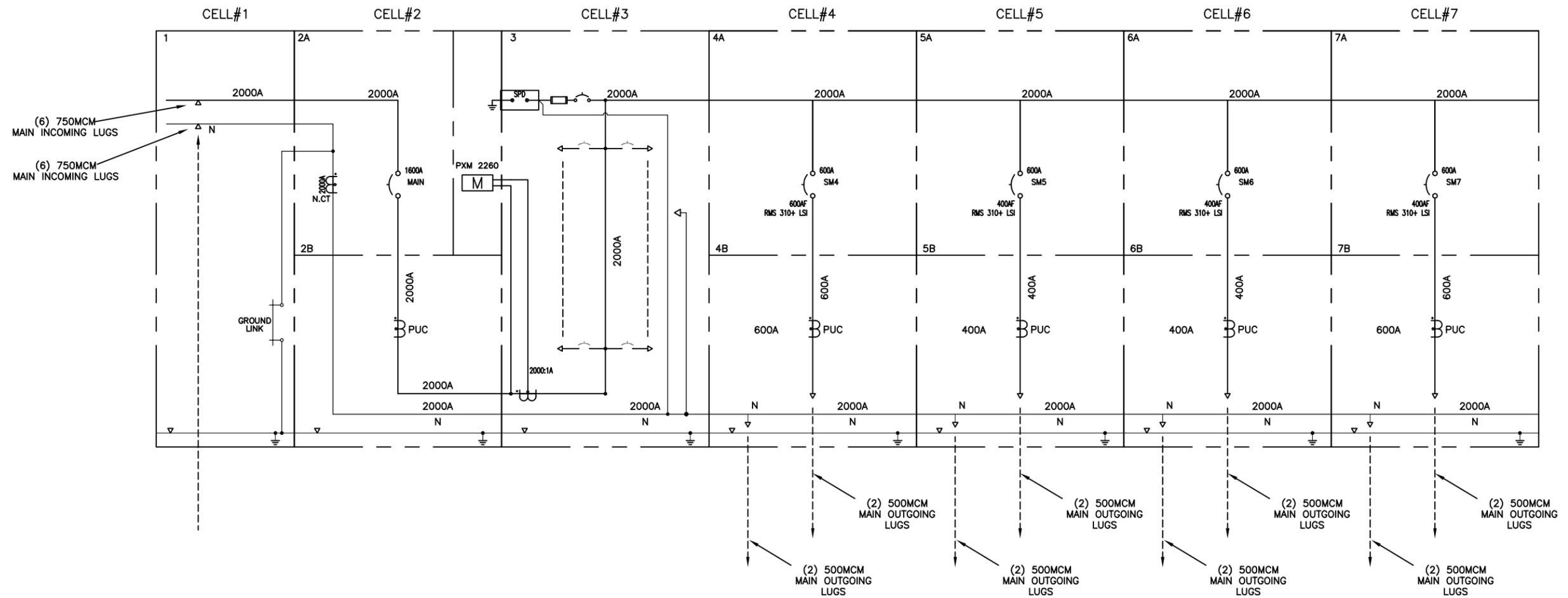
BON DE FABRICATION / S.O.

CSMU106519-001-19

FEUILLE / SHEET
2 DE / 12

WWAY-MAIN-PUC-VERT METERING-DIST-SUB MAIN PUC-DIST.

MAIN INCOMING: (6) 1/0-750MCM CU/AL WIRES PER PHASE & NEUTRAL
 (1) #6 - 350 Kcmil GND MECHANICAL LUG AT EACH END OF ASSEMBLY



2

REVISION

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DFTR / DFTR DATE / DATE
 P.MONTPETIT MAY 3/2019

APPE / APPD DATE / DATE



1410 55e Avenue, LACHINE, QC (H8T 3J8)

TITRE / HAMILTON PORT AUTHORITY PIER 15
 TITRE SINGLE LINE DIAGRAM

TYPE / TYPE
 PRLC

SWGR

N° ID FÉDÉRAL / FEDERAL ID NO.
 CODE DE PRODUIT / PRODUCT CODE
 REVISION / REVISION
 DIM. DU DESSIN / DWG SIZE

2
 B

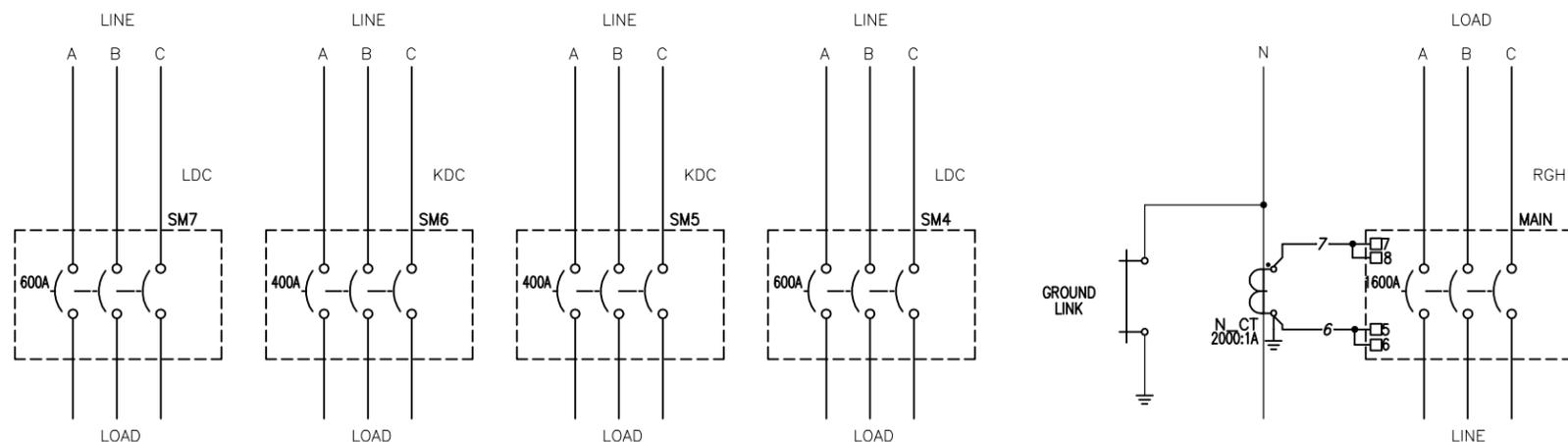
BON DE FABRICATION / S.O.
 CSMU106519-001-19

FEUILLE / SHEET
 3 DE / 12

BREAKER DATA, LUGS AND CONDUIT ENTRY SCHEDULE

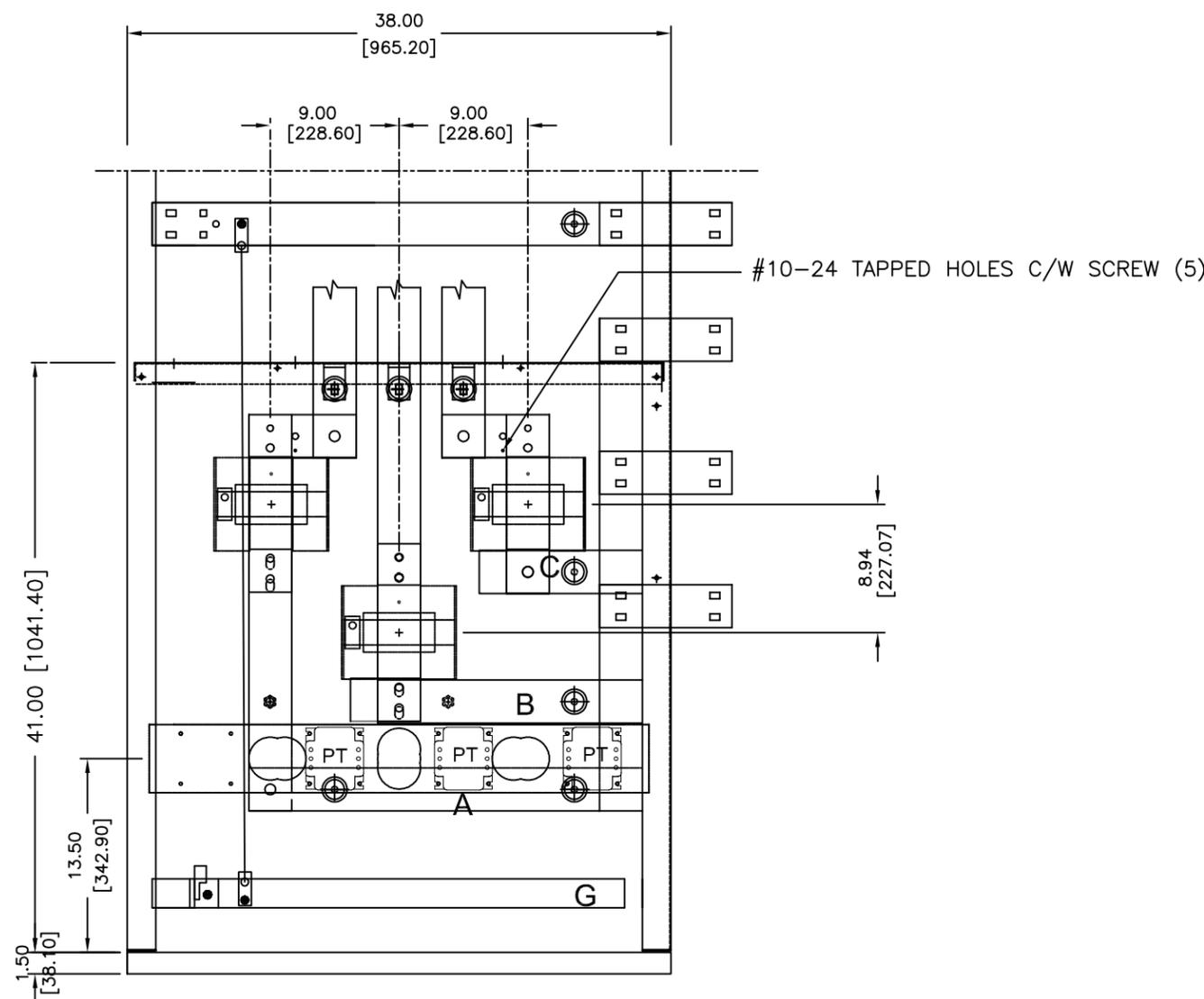
| DEVICE | CELL/LOCATION | EATON BREAKER TYPE / TRIP UNIT | FRAME (A) | INTERRUPT. CAPACITY (kA) | SENSOR & RATING PLUG (A) | TRIP SETTING (A,%) | TRIP FUNCTION | OPERATION | MOUNTING | ATR SUPPLY (V) | MOTOR OPERATOR | SPRING RELEASE | SHUNT TRIP | ACCESSORIES | | | | | | | | | CU/AL MECHANICAL LUGS | | | ENTRY/EXIT | | NOTES |
|--------|---------------|--------------------------------|-----------|--------------------------|--------------------------|--------------------|---------------|-----------|----------|----------------|----------------|----------------|------------|------------------|-------------------|----------------|---------------|-------------------|---------------------|-------------------|----------------------|----------|-----------------------|------------|-------------|------------|--------|------------|
| | | | | | | | | | | | | | | AUX CONTACTS 9/b | BELL ALARM Form-C | CELL SW Form-C | ARM SW & LAMP | OPERATION COUNTER | KEY/CABLE INTERLOCK | PADLOCKABLE COVER | 'CLOSE' BUTTON COVER | SHUTTERS | PER PHASE | NEUTRAL | GROUNDING | TOP | BOTTOM | |
| MAIN | 2A | RGH320036E | 2000 | 50 | 1600 | 1600 | LSIG | M.O. | F.M. | N/A | N/A | N/A | N/A | N | N | N | N | N | N | Y | N | N | N/A | N/A | 1X#6-350MCM | | | MAIN |
| SM4 | 4A | LDC3600F | 600 | 50 | 600 | 600 | LSI | M.O. | F.M. | N/A | N/A | N/A | N/A | N | N | N | N | N | N | Y | N | N | (2) 500MCM | (2) 500MCM | 1X#6-350MCM | | EXIT | SUB MAIN 4 |
| SM5 | 5A | KDC3400F | 400 | 65 | 400 | 400 | LSI | M.O. | F.M. | N/A | N/A | N/A | N/A | N | N | N | N | N | N | Y | N | N | (2) 500MCM | (2) 500MCM | 1X#6-350MCM | | EXIT | SUB MAIN 5 |
| SM6 | 6A | KDC3400F | 400 | 65 | 400 | 400 | LSI | M.O. | F.M. | N/A | N/A | N/A | N/A | N | N | N | N | N | N | Y | N | N | (2) 500MCM | (2) 500MCM | 1X#6-350MCM | | EXIT | SUB MAIN 6 |
| SM7 | 7A | LDC3600F | 600 | 50 | 600 | 600 | LSI | M.O. | F.M. | N/A | N/A | N/A | N/A | N | N | N | N | N | N | Y | N | N | (2) 500MCM | (2) 500MCM | 1X#6-350MCM | | EXIT | SUB MAIN 7 |

LEGEND :- N/A = NOT APPLICABLE, N = NOT PROVIDED, Y = PROVIDED, E.O. = ELECTRICALLY OPERATED, M.O. = MECHANICALLY OPERATED, D.O. = DRAWOUT, F.M. = FIXED MOUNTED, ARM = ARC FLASH REDUCTION MAINTENANCE MODE
TBA = CUSTOMER TO ADVISE, ?? = INFORMATION REQUIRED FROM CUSTOMER / BUSDUCT SUPPLIER



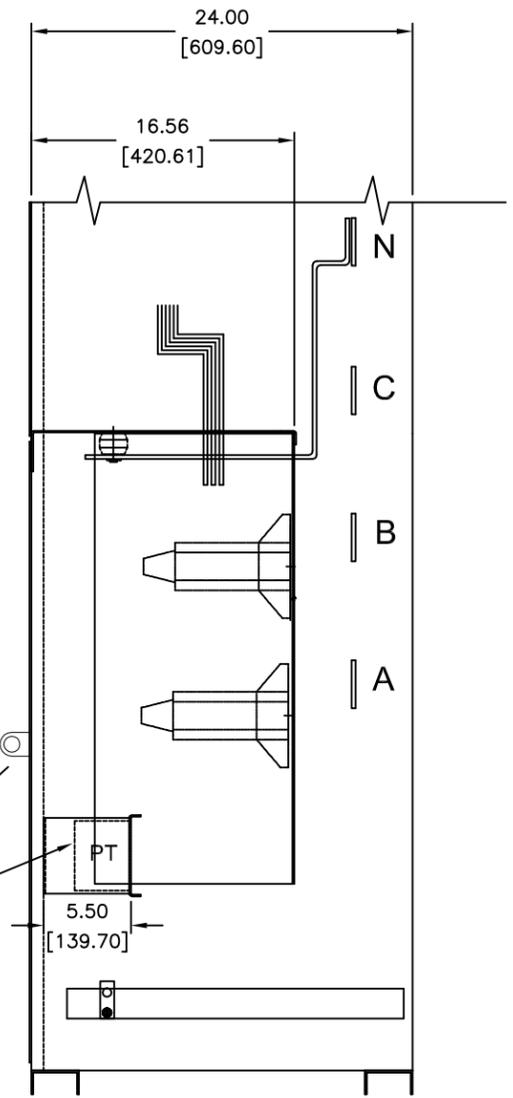
| TAGS | QTY | CATALOG | MFG | DESCRIPTION |
|------------|-----|------------|-------|--|
| SM5 SM6 | 2 | KDC3400F | EATON | KDC 3P 400A BRKR FRAME ONLY 3-POLE CB 400A FRM |
| | | PLK3 | EATON | PADLOCKABLE HANDLE LOCK HASP FOR 2P/3P/4P J&K-FRAME BRKR ACC 600A |
| | | KES3400LSI | EATON | 310+ LSI TRIP UNIT FOR 400AF 3P K-FRAME C-SERIES BRKR (RTG. PLUG NOT REQ'D) TU 400A |
| SM4 SM7 | 2 | LDC3600F | EATON | LDC 3P 600A BRKR FRAME ONLY 3-POLE CB 600A FRM |
| | | HLK4 | EATON | PADLOCKABLE HANDLE LOCK HASP FOR LD/MD-FRAME BRKR ACC 600A |
| | | LES3600LSI | EATON | L-FRAME 3-POLE TRIP UNIT, 600A, 310+ LS1 (RTG PLUG NOT REQ'D) TU 600A |
| MAIN | 1 | RGH320036E | EATON | RGH 3P 2000A LSIG BRKR C/W DT310+ T/U, W/O TERMINALS, W/OUT NEUTRAL SENSOR 3-POLE CB 2000A |
| | | HLK6 | EATON | PADLOCKABLE HANDLE LOCK HASP FOR RD-FRAME BRKR ACC 1800A |
| N_CT | 1 | RGFCT200A | EATON | 2000A NEUTRAL SENSOR - RG BREAKER NS 2000A |

| | | | | | | | | |
|---------------------------------|--|--|---|--|--|--|---------------------|------|
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| | N° ID FÉDÉRAL/ FEDERAL ID NO. | CODE DE PRODUIT/ PRODUCT CODE 140 | RÉVISION / REVISION 2 | DIM. DU DESSIN/ DWG SIZE B | BON DE FABRICATION / S.O. CSMU106519-001-19 | FEUILLE / SHEET 4 DE 12 | | |



FRONT VIEW
(SHOWN WITH DOOR REMOVED)

NOTE: C.T. COMPARTMENT IN CELL # 2



SECTION VIEW (24"DEPTH)

Dimensions in Inches [Metric]

NOTE :

- FRONT VIEW IS SHOWN WITH DOORS REMOVED
- HINGES WILL BE CONCEALED.
- HORIZONTAL P.T. MOUNTING PLATE REQUIRED
 - YES
 - NO
- PROVISION TO MOUNT 3 CT'S

- ITRON MV-7, (5-400) & (500-1200) BAR TYPE
- SANGAMO CW-6, UP TO 2000/5, WINDOW TYPE.
- SANGAMO CW-6, 3000 - 4000/5, WINDOW TYPE.
- SANGAMO CW-6, 5000/5, WINDOW TYPE.
- SCHLUMBERGER TYPE R6L - RATIO: TBA
- OTHER _____

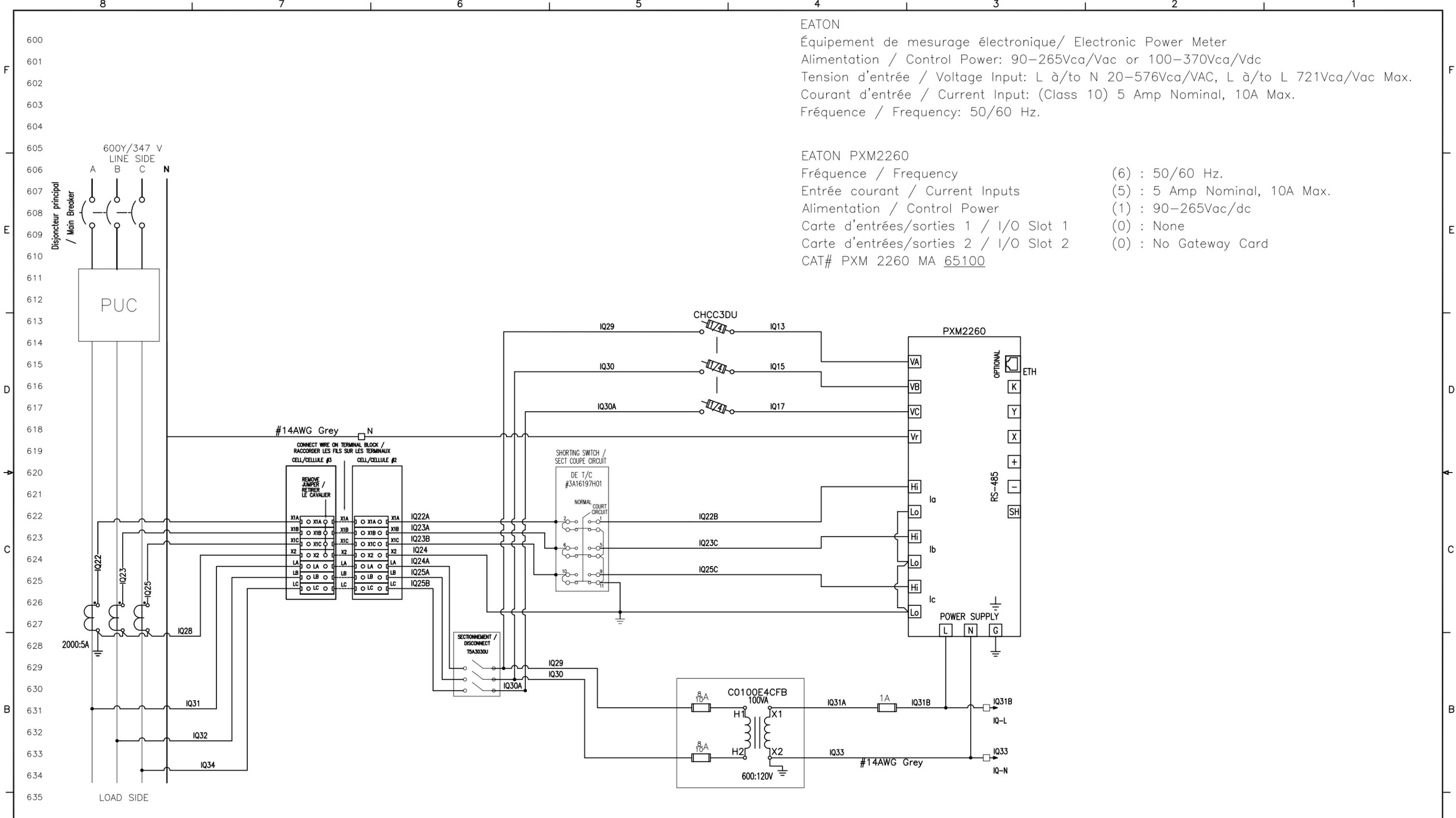
IF CUSTOMER WISHES TO SUPPLY FREE ISSUE MATERIAL, (ie CTs/PTs) TO BE INSTALLED AT THE FACTORY, CUSTOMER MUST NOTIFY EATON CTC X WORKING DAYS PRIOR TO SHIP DATE WITH COMPLETED FORM "FREE ISSUE MATERIAL". FORM TO BE REQUESTED FROM EATON CTC. COPY OF COMPLETED FORM MUST BE ATTACHED TO PARTS SHIPMENT. SHIPMENTS SENT WITHOUT FORM WILL BE RETURNED. PARTS MUST BE RECEIVED AT LEAST Y WORKING DAYS PRIOR TO SHIP DATE. IF NOT RECEIVED BY THIS THIS DATE, INSTALLATION WILL BE THE RESPONSIBILITY OF OTHERS.

[FOR CTs / PTs: X=20, Y=10 WORKING DAYS. FOR OTHER MATERIAL: X=30, Y=20 WORKING DAYS]

| | | | | | | | | | |
|---|----------------------------|---|---|---|----------------------------|----------------------------------|--|---|-----------------------------|
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| | | | N° ID FEDERAL/ FEDERAL ID NO. | CODE DE PRODUIT/ PRODUCT CODE 140 | REVISION / REVISION 2 | DIM. DU DESSIN/ DWG SIZE B | BON DE FABRICATION / S.O. CSMU106519-001-19 | | FEUILLE / SHEET 5 DE/ 12 |

EATON
 Équipement de mesure électronique/ Electronic Power Meter
 Alimentation / Control Power: 90–265Vca/Vac or 100–370Vca/Vdc
 Tension d'entrée / Voltage Input: L ã/to N 20–576Vca/VAC, L ã/to L 721Vca/Vac Max.
 Courant d'entrée / Current Input: (Class 10) 5 Amp Nominal, 10A Max.
 Fréquence / Frequency: 50/60 Hz.

EATON PXM2260
 Fréquence / Frequency (6) : 50/60 Hz.
 Entrée courant / Current Inputs (5) : 5 Amp Nominal, 10A Max.
 Alimentation / Control Power (1) : 90–265Vac/dc
 Carte d'entrées/sorties 1 / I/O Slot 1 (0) : None
 Carte d'entrées/sorties 2 / I/O Slot 2 (0) : No Gateway Card
 CAT# PXM 2260 MA 65100



| | | | | | | | | | |
|---|----------------------------|---|---|---------------------------------------|----------------------------|--------------------------------|---|--|------------------------------|
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| | | | | | | | | | FEUILLE / SHEET 6 DE / 12 |

EATON Type Moulded Case Circuit Breaker
STANDARD CU/AL LUGS SUPP/ COSSES CU/AL STANDARD
FOURNIES

| TYPE | RATING | HEIGHT | LUG SIZES |
|--------------------------------|--------------|--------|--|
| FD/HFD/FDC | - 100A | (3X) | 1 x No.14-1/0 |
| FD/HFD/FDC | - 225A | (3X) | 1 x No.4-4/0 |
| FD+LFD | - 80 to 150A | (3X) | 1 x No.4-4/0 |
| FD+LFD | - 70A | (3X) | 1 x No.14 - No.2 |
| HJD/JDC | - 250A | (3X) | 1 x No.4-350 MCM |
| HKD/KDC/CHKD | - 400A | (4X) | 1 x 2/0-500 MCM or 2 x 2/0-250 MCM |
| ** | ▽ - 400A | (4X) | 1 x 500 - 750 MCM |
| LG | - 630A | (4X) | 2 x No.2 - 500 MCM |
| LA TRI-PAC & LCL | - 400A | (6X) | 1 x No.4 - 250 MCM & 1 x 3/0-600 MCM |
| HLD/LDC/CLD/CLDC | - 600A | (6X) | 2 x 4/0 -500 MCM |
| LC/HLC | - 600A | (6X) | 2 x 250 -500 MCM |
| MDL/HMDL/CHMDL & ND/HND/NDC | - 800A | (6X) | 3 x 3/0-400 MCM |
| △ ND/HND/NDC | - 1200A | (6X) | 4 x 4/0 -500 MCM |
| * CND/CHND | - 1200A | (6X) | 4 x 4/0 -500 MCM |
| * NB TRI-PAC | - 800A | (6X) | 3 x 3/0 -400 MCM |

▽ IN 38" WIDE CELL - SINGLE MOUNT
IN 48" WIDE CELL - TWIN MOUNT
△ IF 750 MCM LUGS ARE REQUIRED,
CELL TO BE 48" WIDE.
* DISTRIBUTION ENCLOSURE
MUST BE 48" WIDE.
(2) 500MCM or (3) 250MCM MAX.
LOAD CABLES IN 38" WIDE CELL
** DO NOT TWIN MOUNT 100% RATED
CKD TYPE DEVICES (PER DWG#8805C15)

△ SI DES BORNES 750 MCM
SONT REQUISES, LA CELLULE
AURA 48" DE LARGE.
* LA CELLULE DE DISTRIBUTION
DOIT AVOIR 48" DE LARGE.

All Branch Switches EATON Type CFDPW Fusible Units.
STANDARD CU/AL LUGS SUPPLIED/ COSSES CU/AL STANDARD
FOURNIES..

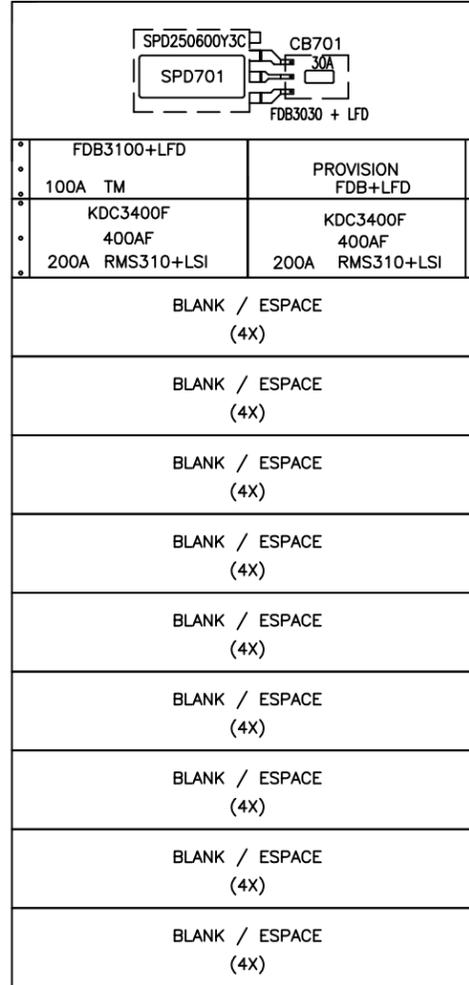
| RATING | HEIGHT | LUG SIZES | STD FUSE PROV. | OTHER |
|------------|--------|--|----------------|-------|
| 30A SW | (4X) | 1x No.14-1/0 | CLASS "J" | ----- |
| 60A SW | (4X) | 1x No.14-1/0 | CLASS "J" | ----- |
| 100A SW | (5X) | 1x No.14-1/0 | CLASS "J" | ----- |
| 200A SW | (6X) | 1x No.4-300 Kcmil | CLASS "J" | ----- |
| 400A SW | (9X) | 1x 250-750 Kcmil or 2x 3/0-250 Kcmil | CLASS "J" | ----- |
| # 600A SW | (11X) | 2x No.4-600 Kcmil or 4x 3/0-250 Kcmil | CLASS "J" | ----- |
| * 800A SW | (11X) | 3x 250-750 Kcmil or 6x 3/0-250 Kcmil | CLASS "L" | ----- |
| * 1200A SW | (15X) | 4x 250-750 Kcmil or 8x 3/0-250 Kcmil | CLASS "L" | ----- |
| 30A FSMC | (7X) | 1x No.14-1/0 | CLASS "J" | ----- |
| 60A FSMC | (7X) | 1x No.14-1/0 | CLASS "J" | ----- |
| 100A FSMC | (7X) | 1x No.14-1/0 | CLASS "J" | ----- |

FUSES SUPPLIED BY OTHERS / FUSIBLES FOURNIS PAR D'AUTRES FABRICANTS.

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F708

F711



F708A

F711A

| TAGS | QTY | CATALOG | MFG | DESCRIPTION |
|---------------|-----|---------------|-------|--|
| F711 F711A | 2 | KDC3400F | EATON | KDC 3P 400A BRKR FRAME ONLY 3-POLE CB 400A FRM |
| | | KES3250LSI | EATON | 310+ LSI TRIP UNIT FOR 250AF 3P K-FRAME C-SERIES BRKR (RTG. PLUG NOT REQ'D) TU 250A |
| | | 3TA401K | EATON | K-FRAME TERMINAL KIT 3P, (2) 2/0-250MCM OR (1) 2/0-500MCM CU/AL W/ COVER ACC 400A TERMINALS |
| SPD701 | 1 | SPD250600Y3C | EATON | SPD 250KA 600Y/347V STD. + SURGE CNTR. FEATURE PANELBOARDS/SWBDS/BUSWAYS 250KA 600Y/347V |
| CB701 | 1 | FDB3030 + LFD | EATON | |
| | | FDB3030 | EATON | |
| | | LFD3070R | EATON | LFD CURRENT LIMITER 3P 15-70A F-FRAME CL 70A CL 1231C03G32 |
| F708 | 1 | FDB3100+LFD | EATON | |
| | | FDB3100 | EATON | |
| | | LFD3150R | EATON | LFD CURRENT LIMITER 3P 80-150A F-FRAME CL 150A CL |
| | | 3TA225FD | EATON | FD-FRAME TERMINAL , 4-4/0 CU/AL ACC TERMINALS |

CELL 3 SB-1
RISER BUS: 2000 AMPS 50X
CROSSBUS BOTTOM

SWGR SHORT CCT. RATING: 50 KA SYM.

BUS BRACING: 50 KA SYM.

Notes:

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ALL CIRCUIT BREAKERS ARE SUITABLE
FOR CONTINUOUS LOAD CURRENT AT 80%
OF TRIP UNIT RATING, UNLESS
MARKED AS BEING SUITABLE FOR
100% CONTINUOUS LOAD CURRENT.

TOUS LES DISJONCTEURS SONT APPROPRIES
POUR UN CHARGE CONTINUE A 80% DU REGIME
DE L'UNITE DE DECLENCHEMENT A MONS
D'ETRE SPECIFIES APPROPRIES POUR UNE
CHARGE CONTINUE D'INTENSITE DE 100%.

PRLC
DISTRIBUTION PANEL
RATING

PANNEAU DE DISTRIBUTION
CARACTERISTIQUES NOMINALES

347/600 VOLTS 3 PHASE 4 WIRE 60 HZ.

BUS BAR/ BARRE : SILVER FLASHED COPPER

TRIP UNIT TYPE

TM = THERMAL MAGNETIC

LSI = LONG & SHORT DELAY, INSTANTANEOUS

LS = LONG & SHORT DELAY

LSIG = LONG & SHORT DELAY, INSTANTANEOUS, GROUND FAULT

PADLOCKABLE HASP

2

REVISION

See on Page #1

Issued For
Approval

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DFTR / DFTR DATE / DATE
P.MONTPETIT MAY 3/2019

APPE / APPD DATE / DATE

EATON

1410 55e Avenue, LACHINE, QC (H8T 3J8)

TITRE/ HAMILTON PORT AUTHORITY PIER 15
TITLE DISTRIBUTION

TYPE / TYPE
PRLC

SWGR

N° ID FÉDÉRAL/
FEDERAL ID NO.

CODE DE PRODUIT/
PRODUCT CODE
140

REVISION / REVISION
2

DIM. DU DESSIN/
DWG SIZE
B

BON DE FABRICATION / S.O.

CSMU106519-001-19

FEUILLE / SHEET
7 DE 12

SPD Series Surge Protection Device Specifications

FEATURE OPTIONS

| Models | SPD50 | SPD80 | SPD100 | SPD120 | SPD160 | SPD200 | SPD250 | SPD300 | SPD400 |
|---|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Surge Current Per Phase (L-N + L-G) | 50kA | 80kA | 100kA | 120kA | 160kA | 200kA | 250kA | 300kA | 400kA |
| Surge Current Mode | | | | | | | | | |
| L-N (Line-to-Neutral) | 50kA | 50kA | 50kA | 60kA | 80kA | 100kA | 125kA | 150kA | 200kA |
| L-G (Line-to-Ground) | 50kA | 50kA | 50kA | 60kA | 80kA | 100kA | 125kA | 150kA | 200kA |
| N-G (Neutral-to-Ground) | 50kA | 50kA | 50kA | 60kA | 80kA | 100kA | 125kA | 150kA | 200kA |
| EMI/RFI Filtering Attenuation (Std/With Surge Counter) | 50dB | 50dB | 50dB | 50dB | 50dB | 50dB | 50dB | 50dB | 50dB |

| Feature Packages | | | |
|--|----------------|----------------|-------------------------------|
| Diagnostic Features | 1 | 2 | 3 |
| | (Basic) | (Standard) | (Standard with Surge Counter) |
| LED Indicator Lights Red/Green | ✓ | ✓ | ✓ |
| Form "C" Contacts | | ✓ | ✓ |
| Audible Alarm with Enable/Disable Button | | ✓ | ✓ |
| EMI/RFI filtering | | ✓ | ✓ |
| Surge Counter w/Reset button | | | ✓ |
| Power Consumption | 0.5-2.1W | 0.5-2.1W | 0.5-2.1W |
| Operating Temperature | -20°C to +50°C | -20°C to +50°C | -20°C to +50°C |

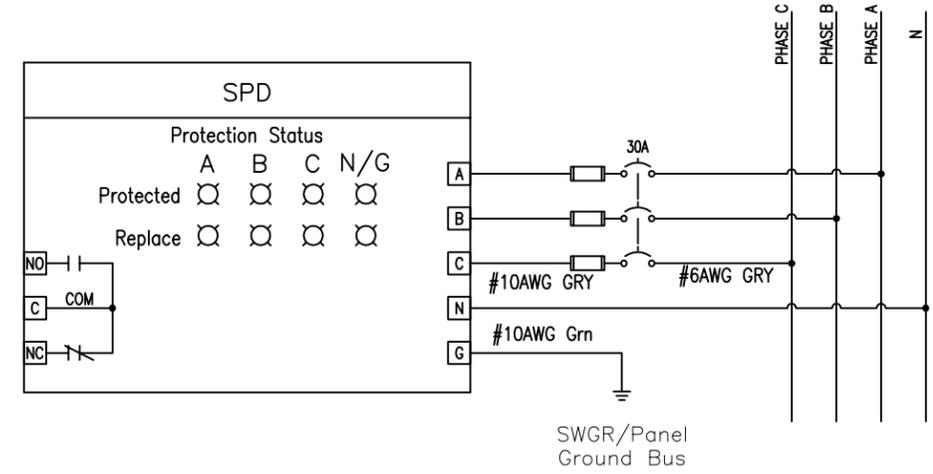


APPLICATION SUFFIX:

- A- PL1A/2A/3A PANELBOARD BUS MOUNT
- B - REMOTE DISPLAY CABLE CONNECTED
- C - CABLE CONNECTED PL4/SWGR MOUNT

REMOTE DISPLAY CABLES: PURCHASED SEPARATELY

- 4' LENGTH -SPDRDCAB04
- 8' LENGTH -SPDRDCAB08
- 12' LENGTH -SPDRDCAB12



NOTE: Connect ONLY ONE Surge Ground connection point and ONE Neutral connection point on the SPD.

STATUS INDICATORS:

All units are equipped with Green/Red LED Protection status Indicator Lights on each Phase.
 GREEN indicates the phase is fully protected.
 RED indicates a loss of protection.

When the LEDs turn red, an Audible Alarm will also sound on units equipped with an audible alarm.

Cat. # : SPD 250 600Y 3 C
 Surge Rating Voltage Code Feature Package Application Suffix

2

REVISION

See on Page #1

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DFTR / DFTR DATE / DATE
 P.MONTPETIT MAY 3/2019

APPE / APPD DATE / DATE



1410 55e Avenue, LACHINE, QC (H8T 3J8)

TITRE / HAMILTON PORT AUTHORITY PIER 15
 TITRE SURGE PROTECTIVE DEVICE - SPD DATA SHEET

TYPE / TYPE
 PRLC

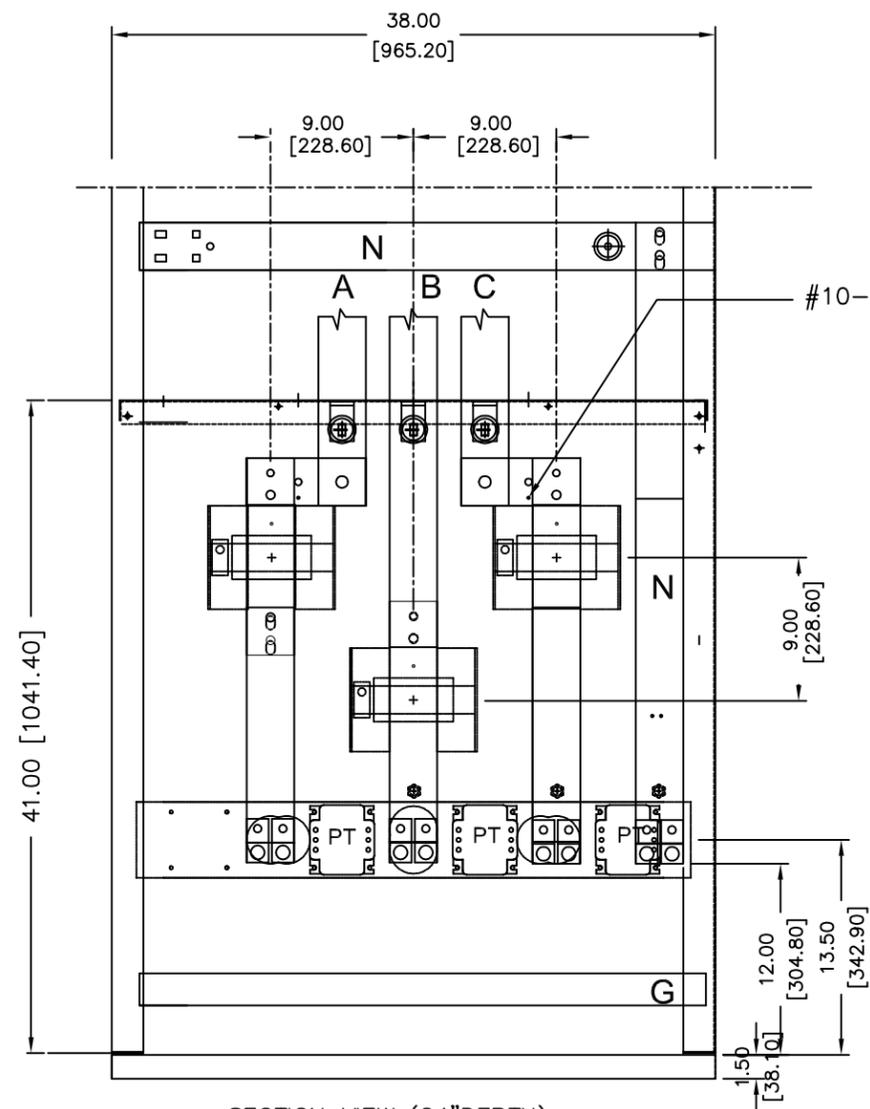
SWGR

N° ID FÉDÉRAL / FEDERAL ID NO.
 CODE DE PRODUIT / PRODUCT CODE
 REVISION / REVISION
 DIM. DU DESSIN / DWG SIZE

2 B

BON DE FABRICATION / S.O.
CSMU106519-001-19

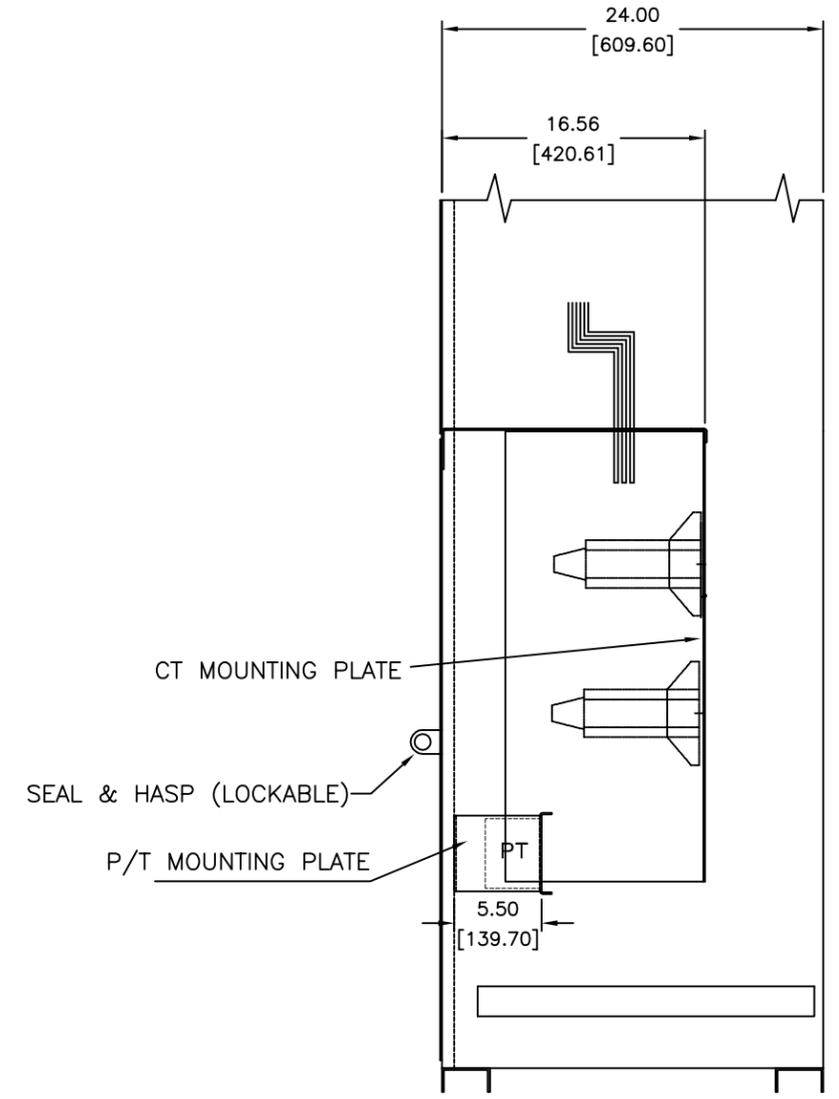
FEUILLE / SHEET
 8 DE 12



SECTION VIEW (24"DEPTH)
FRONT VIEW
(SHOWN WITH DOOR REMOVED)

#10-24 TAPPED HOLES C/W SCREW (5)

NOTE: C.T. COMPARTMENT IN CELL # 4



FRONT VIEW
(SHOWN WITH DOOR REMOVED)
SECTION VIEW (24"DEPTH)

Dimensions in Inches [Metric]

NOTE :

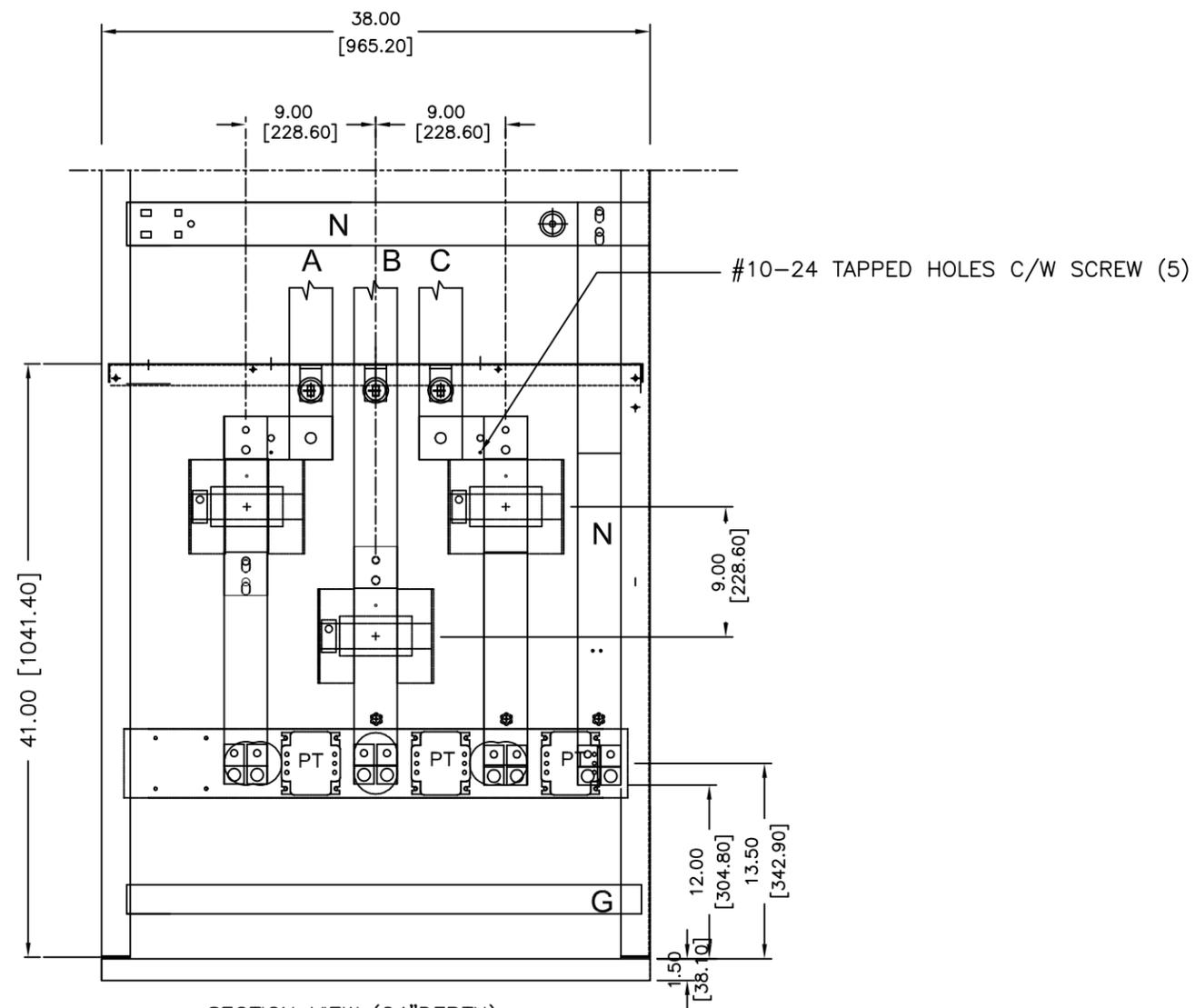
- FRONT VIEW IS SHOWN WITH DOORS REMOVED
- HINGES WILL BE CONCEALED.
- HORIZONTAL P.T. MOUNTING PLATE REQUIRED
 YES NO
- PROVISION TO MOUNT 3 CT'S

- ITRON MV-7, (5-400) & (500-1200) BAR TYPE
- SANGAMO CW-6, UP TO 2000/5, WINDOW TYPE.
- SANGAMO CW-6, 3000 - 4000/5, WINDOW TYPE.
- SANGAMO CW-6, 5000/5, WINDOW TYPE.
- SCHLUMBERGER TYPE R6L - RATIO: TBA
- OTHER _____

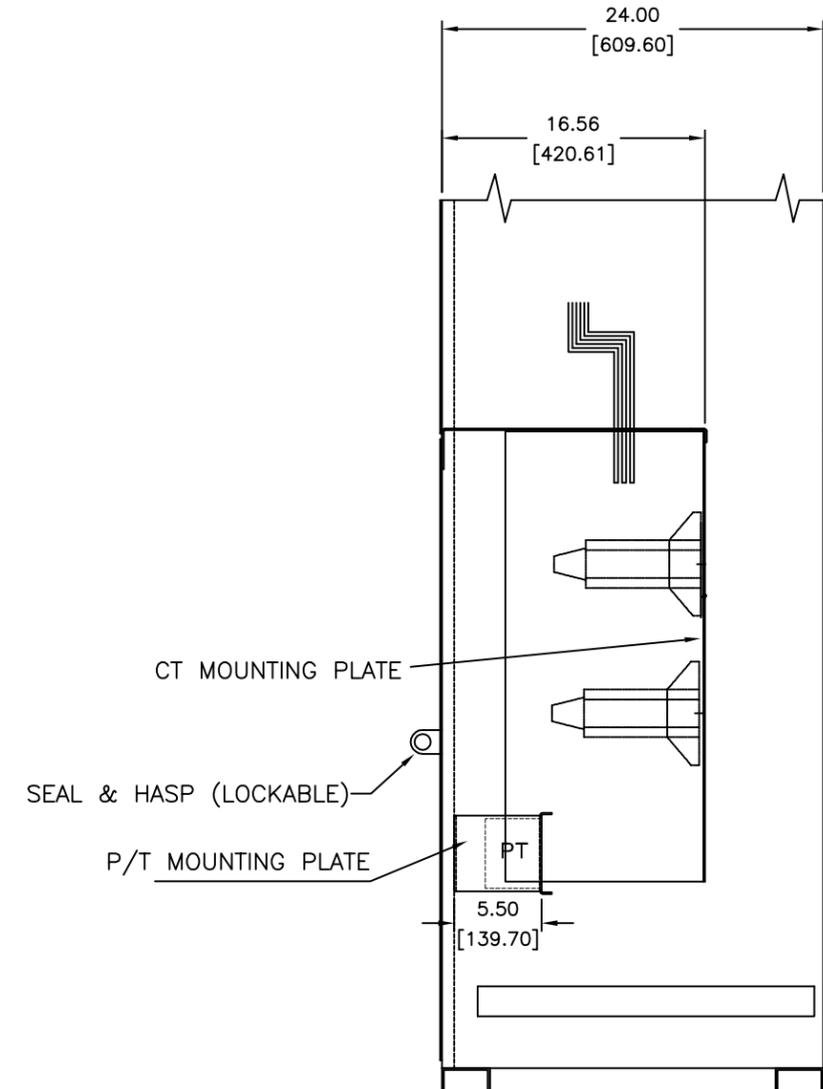
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[FOR CTs / PTs: X=20, Y=10 WORKING DAYS. FOR OTHER MATERIAL: X=30, Y=20 WORKING DAYS]

| | | | | | | | | | | | |
|---|----------------------------|--|--|---|--|----------------------------------|---------------------------|---------------------|--|---|--|
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| | | | | N° ID FÉDÉRAL/ FEDERAL ID NO. | | CODE DE PRODUIT/ PRODUCT CODE | | REVISION / REVISION | | DIM. DU DESSIN/ DWG SIZE | |
| | | | | 140 | | 2 | | B | | BON DE FABRICATION / S.O. CSMU106519-001-19 | |
| | | | | | | | | TYPE / TYPE PRLC | | SWGR | |
| | | | | | | | | FEUILLE / SHEET | | 9 DE / 12 | |



SECTION VIEW (24"DEPTH)
FRONT VIEW
(SHOWN WITH DOOR REMOVED)



FRONT VIEW
(SHOWN WITH DOOR REMOVED)
SECTION VIEW (24"DEPTH)

#10-24 TAPPED HOLES C/W SCREW (5)

NOTE: C.T. COMPARTMENT IN CELL # 5

Dimensions in Inches [Metric]

NOTE :

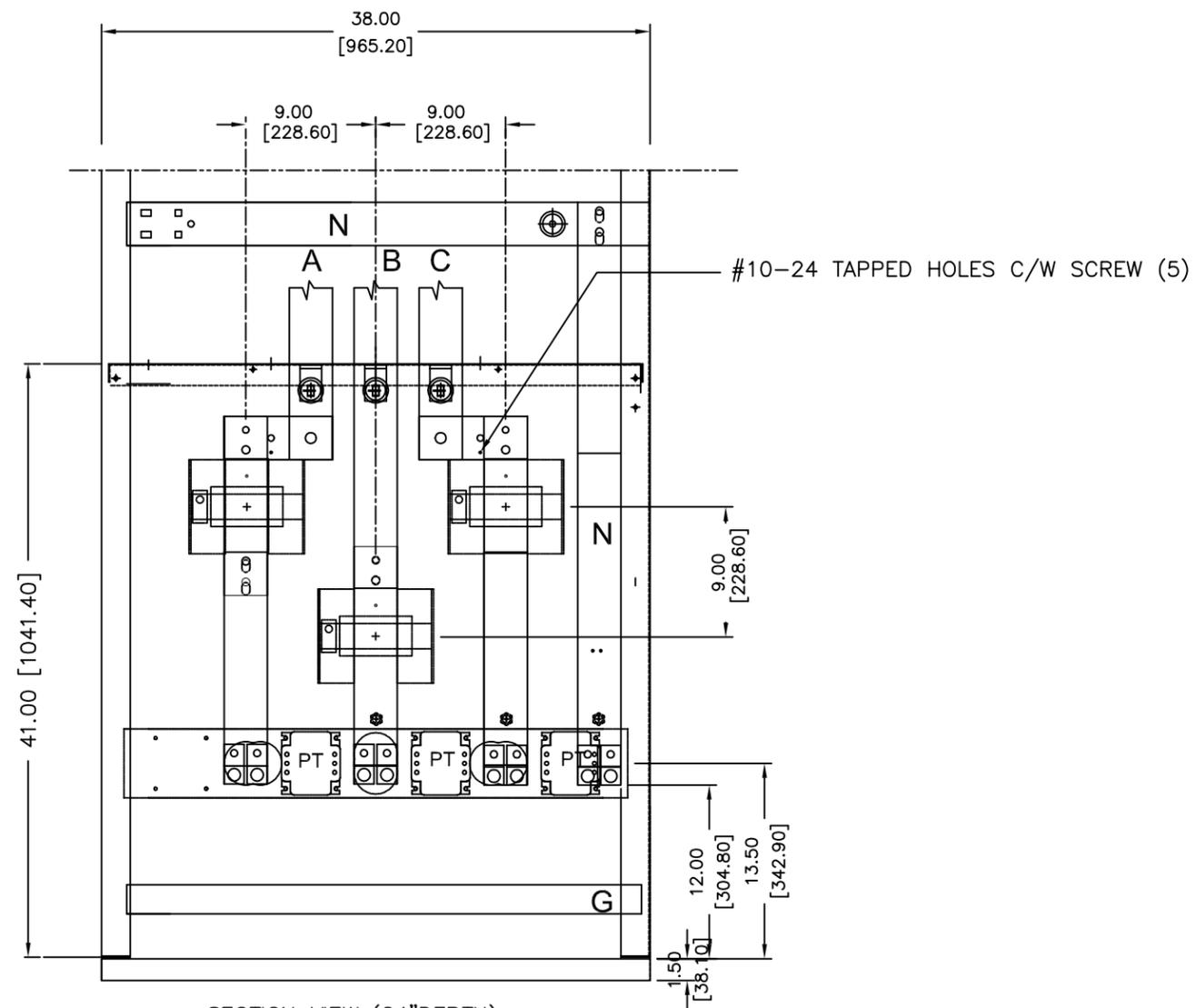
- FRONT VIEW IS SHOWN WITH DOORS REMOVED
- HINGES WILL BE CONCEALED.
- HORIZONTAL P.T. MOUNTING PLATE REQUIRED
 YES NO
- PROVISION TO MOUNT 3 CT'S

- ITRON MV-7, (5-400) & (500-1200) BAR TYPE
- SANGAMO CW-6, UP TO 2000/5, WINDOW TYPE.
- SANGAMO CW-6, 3000 - 4000/5, WINDOW TYPE.
- SANGAMO CW-6, 5000/5, WINDOW TYPE.
- SCHLUMBERGER TYPE R6L - RATIO: TBA
- OTHER _____

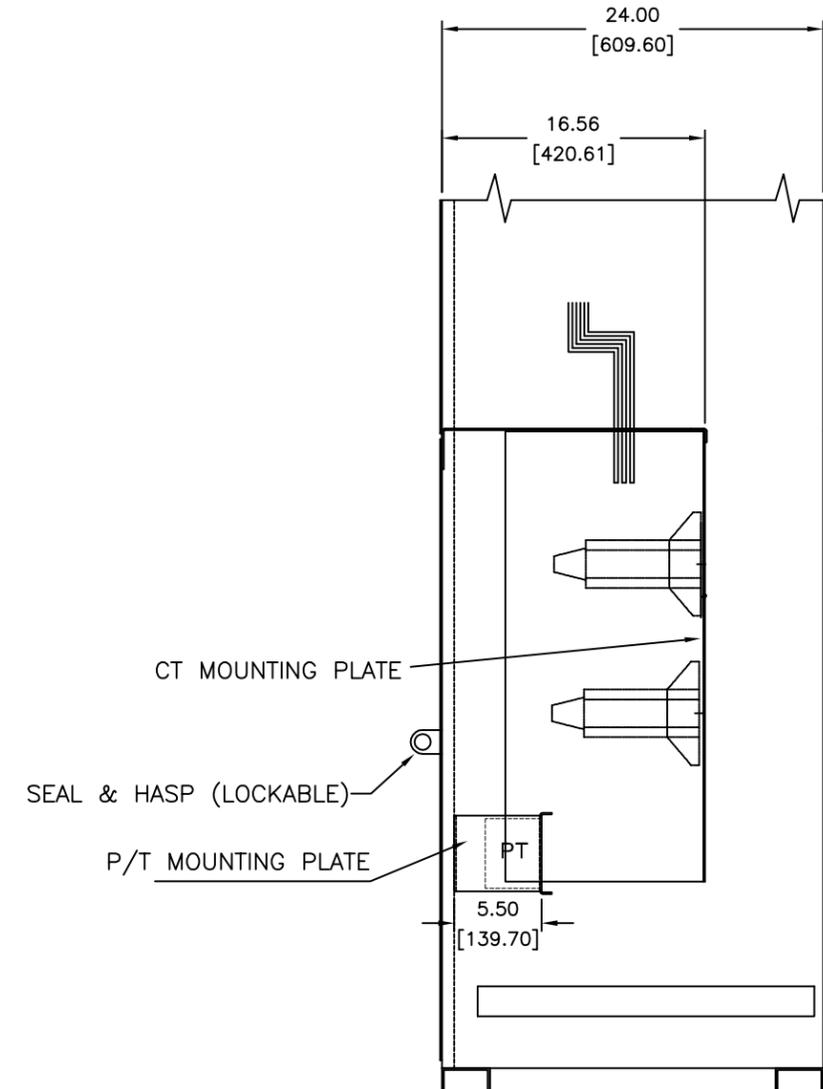
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[FOR CTs / PTs: X=20, Y=10 WORKING DAYS. FOR OTHER MATERIAL: X=30, Y=20 WORKING DAYS]

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| | | | N° ID FÉDÉRAL/ FEDERAL ID NO. | CODE DE PRODUIT/ PRODUCT CODE 140 | REVISION / REVISION 2 | DIM. DU DESSIN/ DWG SIZE B | BON DE FABRICATION / S.O. CSMU106519-001-19 | | FEUILLE / SHEET 10 DE/ 12 |



SECTION VIEW (24"DEPTH)
FRONT VIEW
(SHOWN WITH DOOR REMOVED)



FRONT VIEW
(SHOWN WITH DOOR REMOVED)
SECTION VIEW (24"DEPTH)

#10-24 TAPPED HOLES C/W SCREW (5)

NOTE: C.T. COMPARTMENT IN CELL # 6

Dimensions in Inches [Metric]

NOTE :

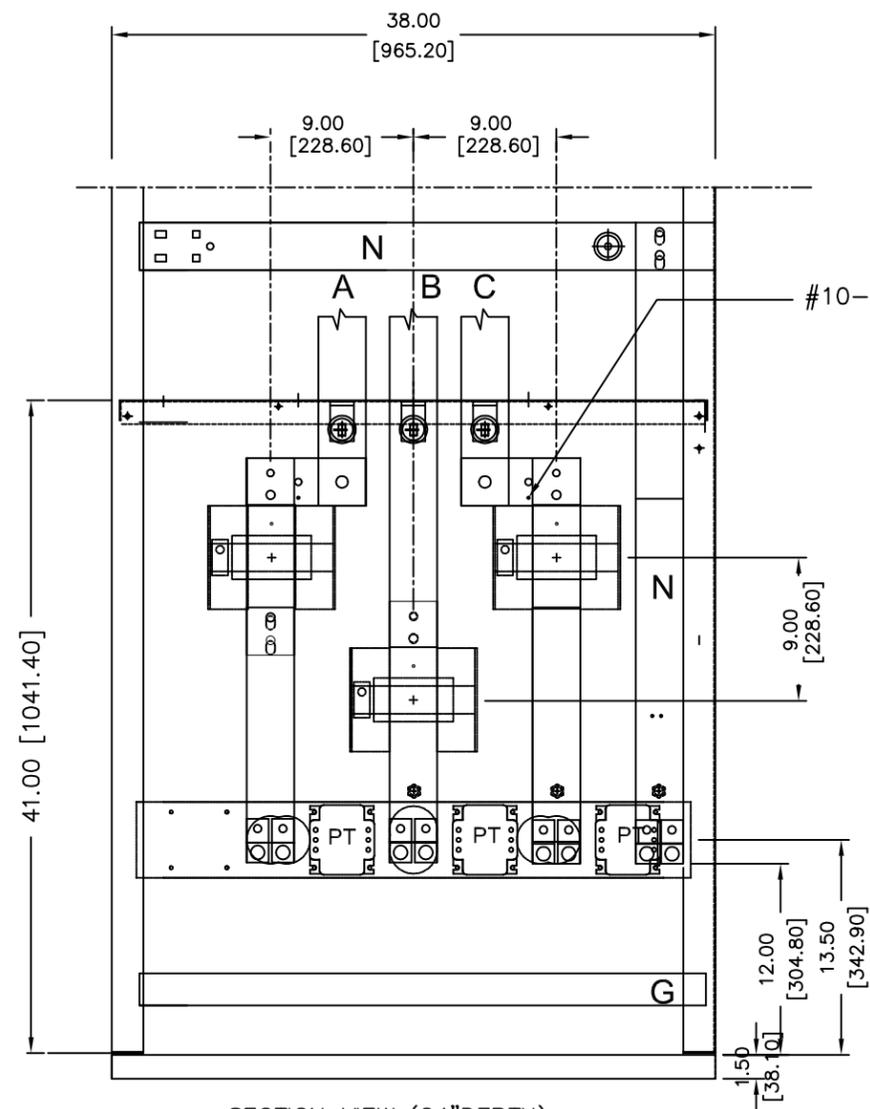
- FRONT VIEW IS SHOWN WITH DOORS REMOVED
- HINGES WILL BE CONCEALED.
- HORIZONTAL P.T. MOUNTING PLATE REQUIRED
 YES NO
- PROVISION TO MOUNT 3 CT'S

- ITRON MV-7, (5-400) & (500-1200) BAR TYPE
- SANGAMO CW-6, UP TO 2000/5, WINDOW TYPE.
- SANGAMO CW-6, 3000 - 4000/5, WINDOW TYPE.
- SANGAMO CW-6, 5000/5, WINDOW TYPE.
- SCHLUMBERGER TYPE R6L - RATIO: TBA
- OTHER _____

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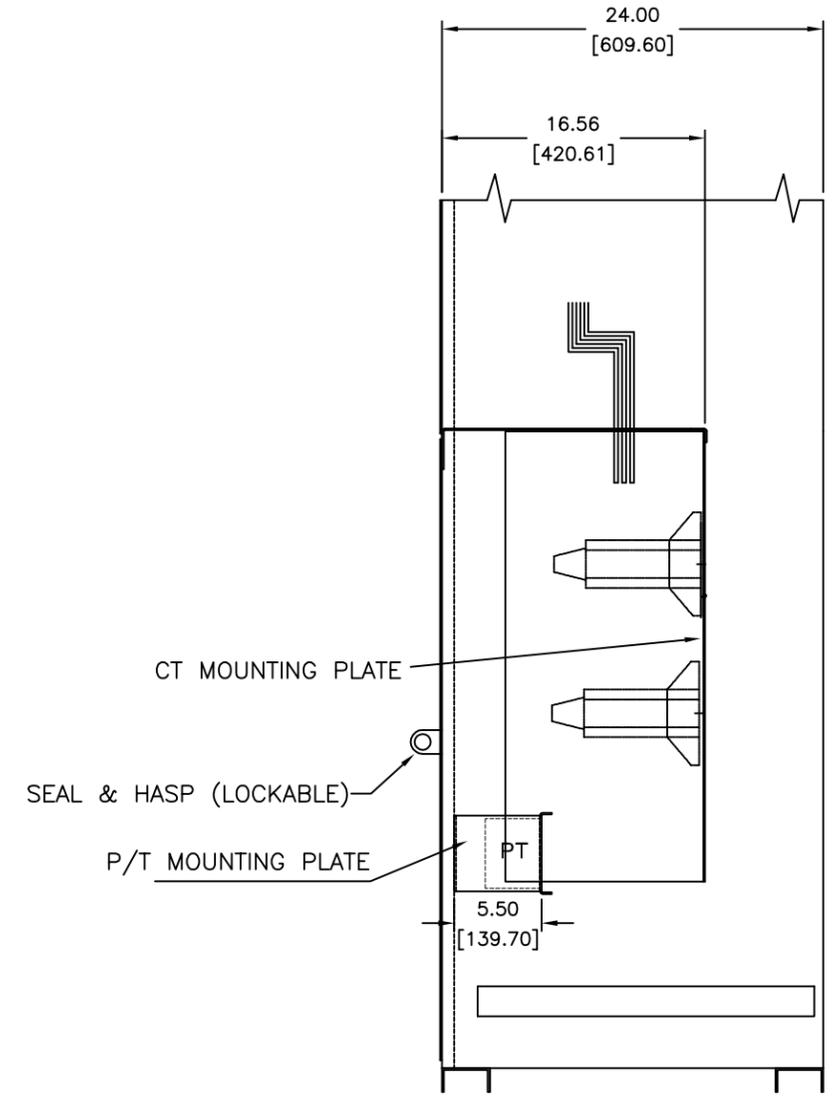
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| | | | | 140 | | 2 | | B | | CSMU106519-001-19 | | 11 DE / 12 OF | |



SECTION VIEW (24"DEPTH)
FRONT VIEW
(SHOWN WITH DOOR REMOVED)

#10-24 TAPPED HOLES C/W SCREW (5)

NOTE: C.T. COMPARTMENT IN CELL # 7



FRONT VIEW
(SHOWN WITH DOOR REMOVED)
SECTION VIEW (24"DEPTH)

Dimensions in Inches [Metric]

NOTE :

- FRONT VIEW IS SHOWN WITH DOORS REMOVED
- HINGES WILL BE CONCEALED.
- HORIZONTAL P.T. MOUNTING PLATE REQUIRED
 YES NO
- PROVISION TO MOUNT 3 CT'S

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| | | | | APPE / APPD DATE / DATE | TITRE/ HAMILTON PORT AUTHORITY PIER 15 TITRE PUC | | TYPE / TYPE PRLC | |
| | | N° ID FÉDÉRAL/ FEDERAL ID NO. | CODE DE PRODUIT/ PRODUCT CODE | REVISION / REVISION | DIM. DU DESSIN/ DWG SIZE | BON DE FABRICATION / S.O. | | FEUILLE / SHEET |
| | | 140 | 2 | B | CSMU106519-001-19 | | 12 DE / 12 OF | |