



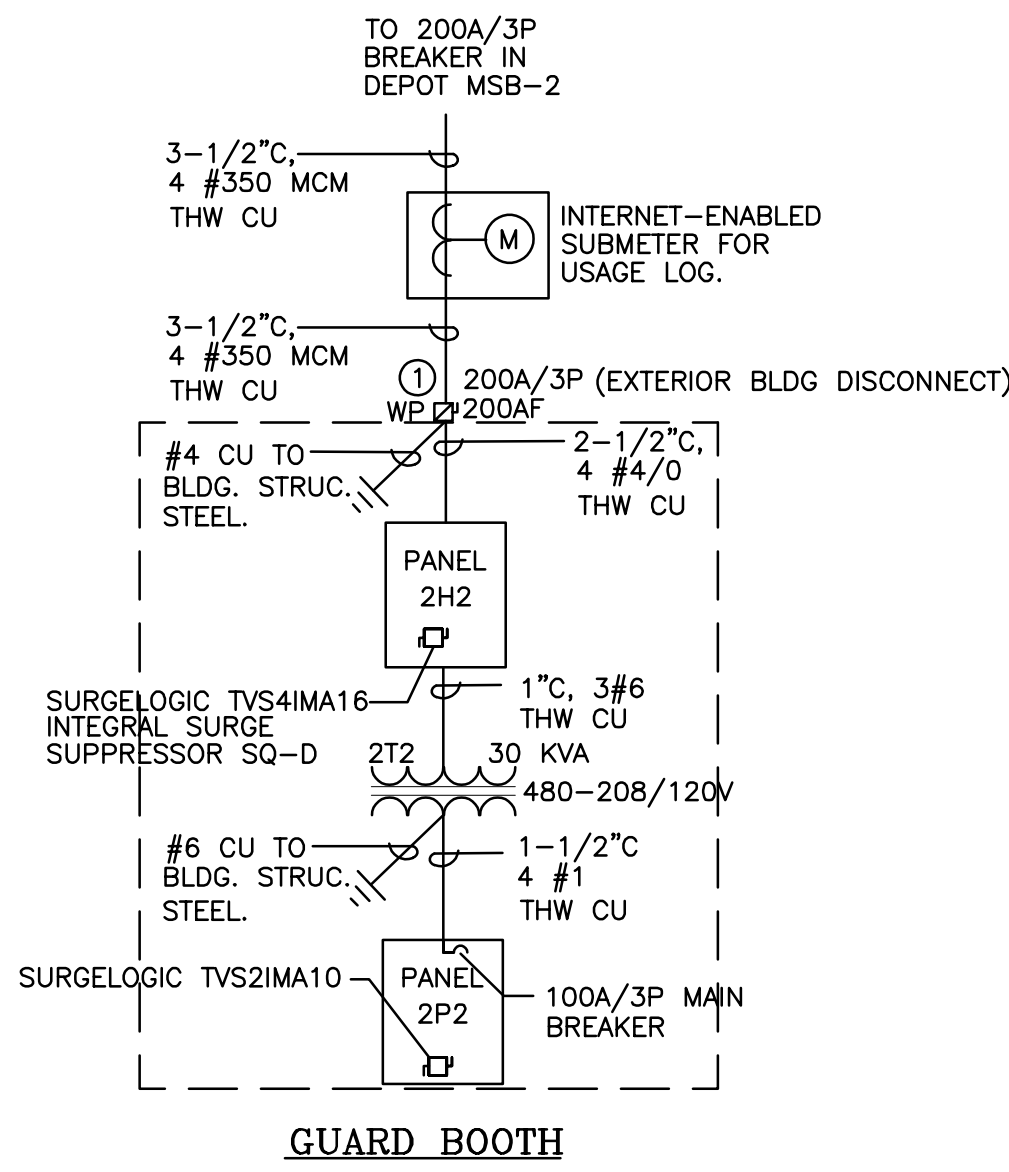
City of Aurora Building Division

Project: **Panel Revisions**
Address: **26200 E. 64th Ave.**
Occupancy Group: **B**
Construction Type: **VB**
RSN: **1504268**
Permit: **20-1900018**

Revisions only: Call for inspections under original permit, #19-1739030-CM

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

The rating of all series rated panels shall be marked on the panels. Provide manufacturers information and cut sheets onsite and available during field inspections per 2017 NEC 240.86



ONE LINE DIAGRAM

NO SCALE

ONE LINE DIAGRAM NOTES:

- PROVIDE PAD LOCK AND KEY COVER FOR WP FUSED DISCONNECT. PROVIDE LAMACOID LABEL "BUILDING MAIN DISCONNECT SWITCH".

PLAN NOTES:

- E.C. TO VERIFY EXACT LOCATION OF EQUIPMENT AND COORDINATE WITH VENDOR'S SHOP DRAWING AND G.C. PRIOR TO ROUGH IN.
- PROVIDE 2-COMPARTMENT J-BOX (FOR POWER AND DATA) AS REQUIRED.

| | | | | |
|------------------------------|---------------------|-------------|-------------------|---------|
| PANEL: 2H2 | 480 / 277 VOLTS | 3 PHASE | 4 WIRE | 12/1/20 |
| PROVIDE LABEL PER NEC 110.22 | 225 A CU BUS M.L.O. | | 22000 A.I.C. MIN. | |
| | TOP FEED | | SO-D NF POWERLINK | |
| CIRCUIT USE | A | PHASE (KVA) | B | C |
| SPARE | | | | |
| SPARE | | | | |
| SPARE | | | | |
| SPARE | | | | |
| SPARE | | | | |
| SPARE | | | | |
| AC-35 (GUARD BOOTH) | 6.90 | 6.90 | 35/3 | 23/24 |
| SPACE | | | | |
| SPACE | | | | |
| SPACE | | | | |
| SPACE | | | | |
| SPACE | | | | |
| SPACE | | | | |
| SUBFEED 2T2 & 2P2 | 10.00 | 10.00 | 45/3 | 39/40 |
| TOTAL PHASE A (KVA) | 16.90 | | 24.01 KVA | 7.11 |
| TOTAL PHASE B (KVA) | | | 21.4 KVA | 4.50 |
| TOTAL PHASE C (KVA) | | | 19.57 KVA | 2.67 |
| TOTAL CONNECTED LOAD | | | 64.98 KVA | 78 A |

| | | | | |
|----------------------------------|-----------------|-------------|-------------------|------------|
| PANEL: 2P2 | 480 / 277 VOLTS | 3 PHASE | 4 WIRE | 12/1/20 |
| 100 A CU BUS W/ 100A/3P MAIN BKR | | | 22000 A.I.C. MIN. | |
| TOP FEED | | | SO-D NF | |
| CIRCUIT USE | A | PHASE (KVA) | B | C |
| RECEPTACLE | 0.54 | 0.54 | 20/1 | 1 2 20/1 |
| RECEPTACLE | | | 20/1 | 3 4 20/1 |
| RECEPTACLE | 0.18 | 0.18 | 20/1 | 5 6 20/1 |
| RECEPTACLE | | | 20/1 | 7 8 20/1 |
| RECEPTACLE | 0.54 | 0.18 | 20/1 | 9 10 20/1 |
| RECEPTACLE | | | 20/1 | 11 12 30/2 |
| RECEPTACLE | | 0.36 | 20/1 | 13 14 30/2 |
| RECEPTACLE | | | 20/1 | 15 16 30/2 |
| WATER HEATER | | 1.56 | 20/1 | 17 18 |
| SPARE | | | 20/1 | 19 20 20/1 |
| SPARE | | | 20/1 | 21 22 |
| TV RECEPTACLE | | 0.50 | 20/1 | 23 24 20/1 |
| RECEPTACLE | 0.54 | | 20/1 | 25 26 20/1 |
| RECEPTACLE | | 0.54 | 20/1 | 27 28 20/1 |
| RECEPTACLE | | | 20/1 | 29 30 20/1 |
| RECEPTACLE | 0.18 | 0.18 | 20/1 | 31 32 |
| RECEPTACLE | | | 20/1 | 33 34 |
| SPACE | | | | 35 36 20/1 |
| SPACE | | | | 37 38 30/1 |
| SPACE | | | | 39 40 30/1 |
| SPACE | | | | 41 42 20/1 |
| TOTAL PHASE A (KVA) | 1.98 | | 7.19 KVA | 5.21 |
| TOTAL PHASE B (KVA) | | 1.80 | 6.19 KVA | 4.39 |
| TOTAL PHASE C (KVA) | | 3.32 | 7.82 KVA | 4.50 |
| TOTAL CONNECTED LOAD | | | 21.2 KVA | 58 A |

* PROVIDE LOCK-IN DEVICE, MARK "LEAVE ON".

SHORT CIRCUIT CALCULATION

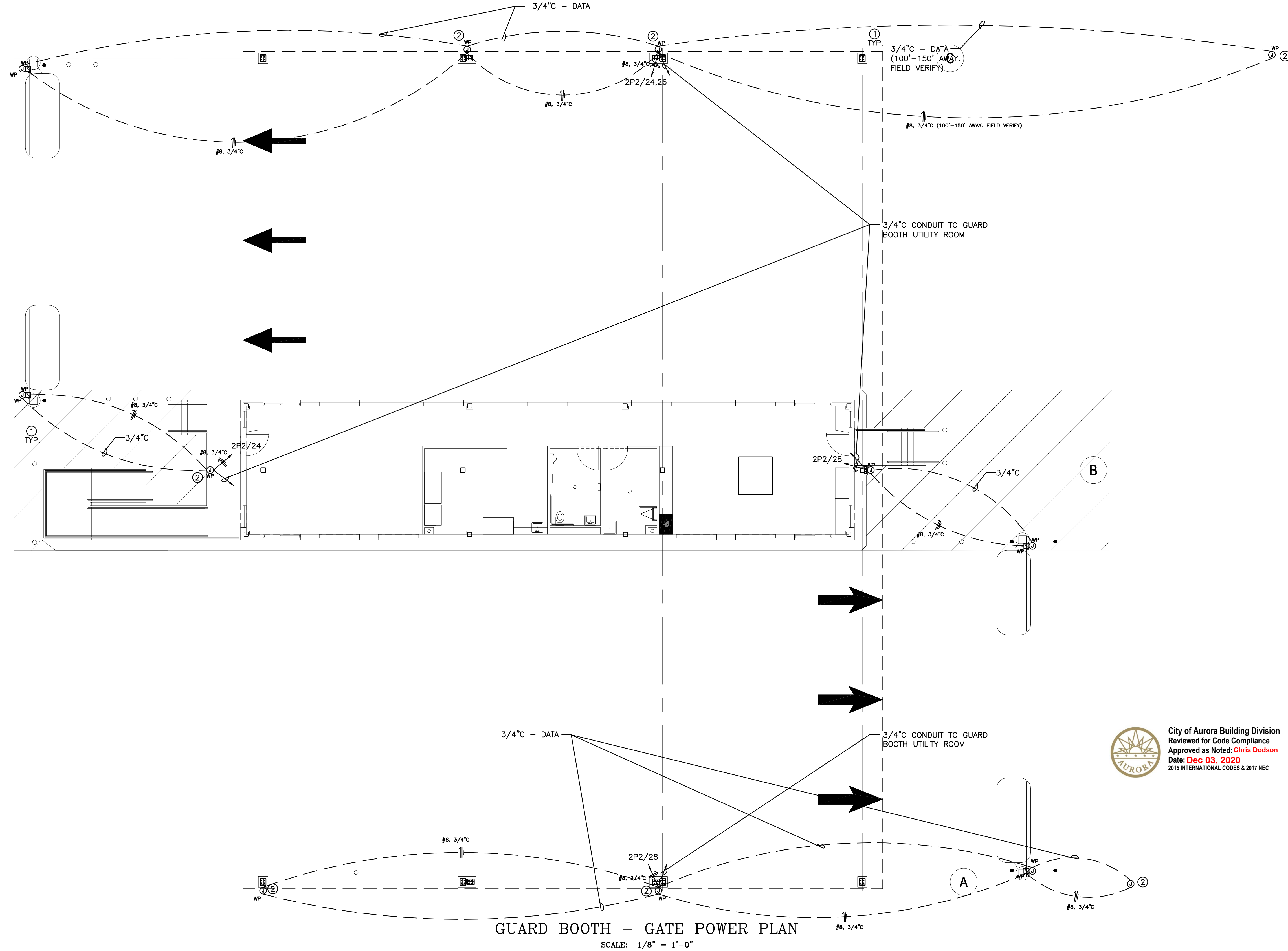
FAULT CURRENT AT SERVICE CONNECTION POINT = 4,320A
MOTORS CONTRIBUTED FAULT CURRENT AT MSB1 = 13,097A
MOTORS CONTRIBUTED FAULT CURRENT AT MSB2 = 3,644A

| | | | | |
|--------------------|------------------|--------|--------|-------|
| PANEL | PRI XFMR #1 & #2 | MSB2 | 2H2 | 2P2 |
| VOLTAGE | 13,200 | 480 | 480 | 208 |
| PHASE | 3 | 3 | 3 | 3 |
| START SCC | 4,320 | 54,533 | 56,437 | 1,528 |
| FEEDER LENGTH (FT) | | 47 | 285 | 5 |
| FEEDER SET | | | | |
| PARALLEL | 1 | 10 | 1 | 1 |
| WIRE SIZE | 3/0 | 600 | 350 | 1 |
| WIRE CONSTANT | 13,923 | 28,033 | 22,736 | 7,493 |

| | | | | |
|------------------|-------|---------|--------|--------|
| CALCULATION | | | | |
| PHASE CONSTANT | 1.73 | 1.73 | 1.73 | 1.73 |
| F | 0.04 | 0.03 | 2.55 | 0.01 |
| M | 0.96 | 0.97 | 0.28 | 0.99 |
| SCC END | 4,138 | 56,437 | 15,898 | 1,515 |
| PANEL AIC RATING | | 100,000 | 22,000 | 10,000 |
| | | FULL | SERIES | FULL |

| | | |
|-------------|--------------|--------|
| XFMR | XFMR #1 & #2 | 2T2 |
| PRI VOLT | 13,200 | 480 |
| SEC VOLT | | 208 |
| PHASE | 3 | 3 |
| XFMR KVA | 5,000 | 30 |
| XFMR %Z | 5.75 | 5.2 |
| PRIMARY SCC | 4,138 | 14,221 |

| | | | | |
|----------------|--------|-------|--|--|
| CALCULATION | | | | |
| PHASE CONSTANT | 1.73 | 1.73 | | |
| F | 1.09 | 20.47 | | |
| M | 0.48 | 0.05 | | |
| SCC END | 54,533 | 1,528 | | |



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: **Chris Dodson**
Date: **Dec 03, 2020**
2015 INTERNATIONAL CODES & 2017 NEC

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

GUARD BOOTH PANEL SCHEDULE AND ONE LINE DIAGRAM

PERMIT REVISIONS

PROJECT NO: 19-176

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ARCHITECT REFERENCE NO: 18-5378-01

ISSUE DATE: AUGUST 9, 2019

REVISION DATE: JULY 16, 2020

CHECKED: ANT

DRAWN: HN

E-2

GUARD BOOTH

T.E., Inc.

830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

26200 E. 64TH AVENUE
AURORA, CO 80019

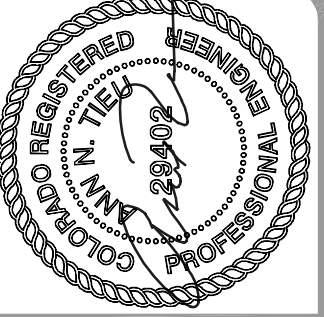


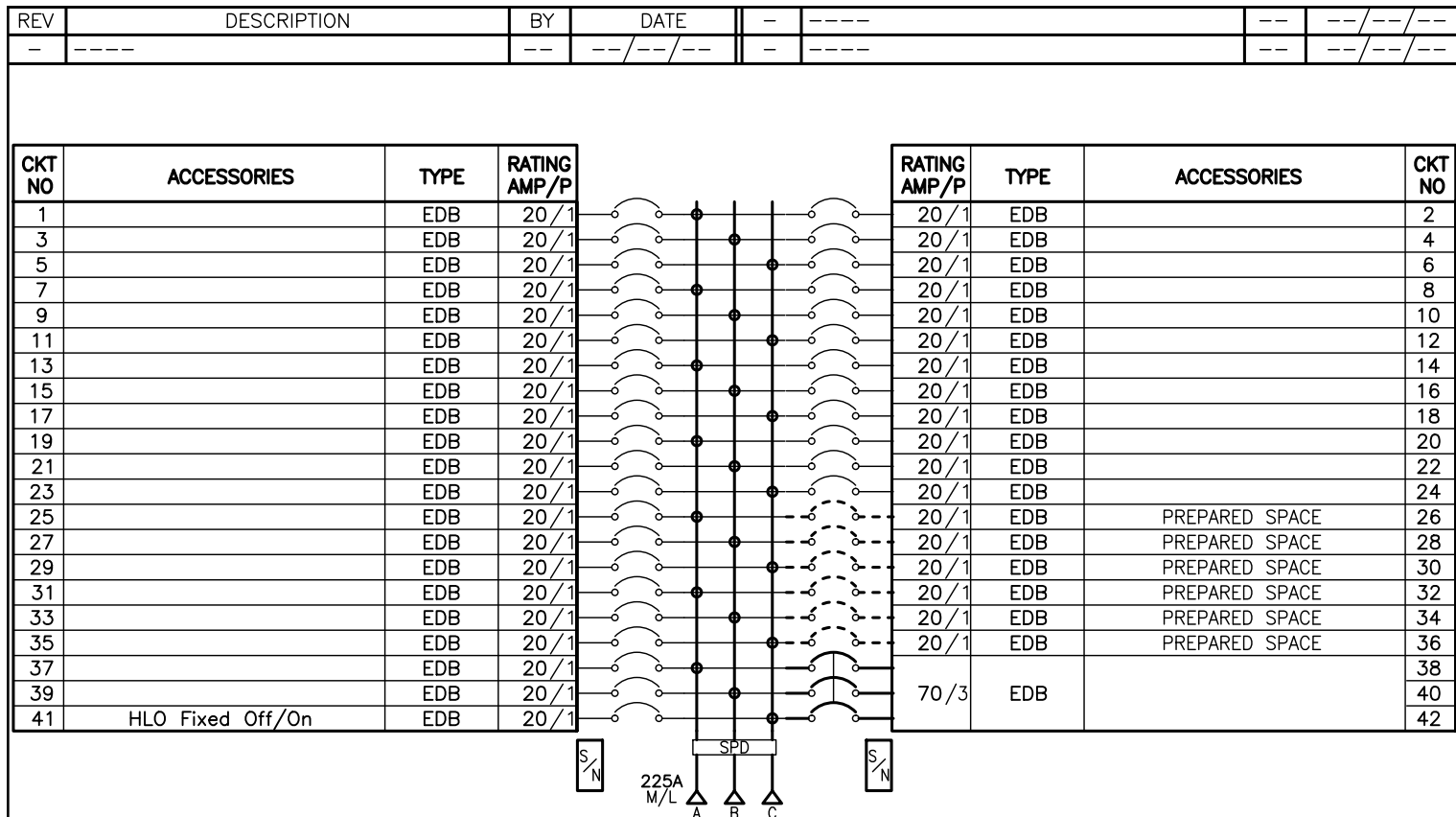
PLANNING SUBMITTAL
ISSUED FOR PERMIT
ISSUED FOR BID
PERMIT MODIFICATION #1
PERMIT REVISION #1

06/09/19
10/28/19
11/14/19
03/05/20
06/17/20
07/19/20

06/09/19
10/28/19
11/14/19
03/05/20
06/17/20
07/19/20

06/09/19
10/28/19
11/14/19
03/05/20
06/17/20
07/19/20



**PHYSICAL DATA**

ENCLOSURE Type 3R/5/12

FRONT CAT#: Trim w/Box

BOX CAT#: MH56WP

DIMENSIONS:

56"(1422mm)Hx20"(508mm)Wx6.5"(165mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm

BOTTOM - 13.25"(337)mm

SIDE - 4.1"(104)mm

PBA: 555

BUSSING: 250A RATED COPPER BUS

Silver/Tin Plated

OPTIONAL FEATURES:

42 CIRCUIT RULE APPLIES

BRANCH USER PLACEMENT

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

SPD DRY CONTACTS

SPD SURGE COUNTER

SPD PEAK SURGE RATING/PHASE: 160kA

SPD LINE TO GRD PROTECT

---STANDARD EQUIPMENT NAMEPLATE---

Engraved as Follows

LINE 1: 1H1

(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz

System Ampacity: 225A

65kA SYMS. SCCR

Series Rated w/ JJ

MAIN: MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs:1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

32 - 20A/1P EDB

1 - 20A/1P EDB HPL

6 - 20A/1P-PS EDB

1 - 70A/3P EDB

JOB NAME: Costco Aurora,CO Depot - Costco

EQUIPMENT DESIGNATION: 1H1 (Wet)

JOB LOCATION: AURORA CO

EQUIPMENT TYPE: NE (Circuit Breaker Type)

DRAWN BY: CAD

DRAWING TYPE: ONE LINE DIAGRAM

ENGR:

DATE: April 15 2020

DRAWING STATUS: RECORD

DWG# 042671088-001-01

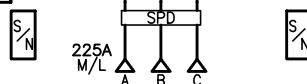


by Schneider Electric

PG 1 OF 2 REV -

| REV | DESCRIPTION | BY | DATE | --- | --- | --- | --- |
|-----|-------------|-----|------|-----|-----|-----|-----|
| --- | --- | --- | --- | --- | --- | --- | --- |

| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|-------------|------|--------------|--|--------------|------|-------------|--------|
| 1 | | EDB | 20/1 | | 20/1 | EDB | | 2 |
| 3 | | EDB | 20/1 | | 20/1 | EDB | | 4 |
| 5 | | EDB | 20/1 | | 20/1 | EDB | | 6 |
| 7 | | EDB | 20/1 | | 20/1 | EDB | | 8 |
| 9 | | EDB | 20/1 | | 20/1 | EDB | | 10 |
| 11 | | EDB | 20/1 | | 20/1 | EDB | | 12 |
| 13 | | EDB | 20/1 | | 20/1 | EDB | | 14 |
| 15 | | EDB | 20/1 | | 20/1 | EDB | | 16 |
| 17 | | EDB | 20/1 | | 20/1 | EDB | | 18 |
| 19 | | EDB | 20/1 | | 20/1 | EDB | | 20 |
| 21 | | EDB | 20/1 | | 20/1 | EDB | | 22 |
| 23 | | EDB | 20/1 | | 20/1 | EDB | | 24 |
| 25 | | EDB | 20/1 | | 20/1 | EDB | | 26 |
| 27 | | EDB | 20/1 | | 20/1 | EDB | | 28 |
| 29 | | EDB | 20/1 | | 20/1 | EDB | | 30 |
| 31 | | EDB | 20/1 | | 20/1 | EDB | | 32 |
| 33 | | EDB | 20/1 | | 20/1 | EDB | | 34 |
| 35 | | EDB | 20/1 | | 20/1 | EDB | | 36 |
| 37 | | EDB | 20/1 | | 20/1 | EDB | | 38 |
| 39 | | EDB | 20/1 | | 70/3 | EDB | | 40 |
| 41 | | EDB | 20/1 | | | | | 42 |

**PHYSICAL DATA**

ENCLOSURE Type 3R/5/12

FRONT CAT#: Trim w/Box

BOX CAT#: MH56WP

DIMENSIONS:

56"(1422mm)Hx20"(508mm)Wx6.5"(165mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm

BOTTOM - 13.25"(337)mm

SIDE - 4.1"(104)mm

PBA: 555

BUSSING: 250A RATED COPPER BUS

Silver/Tin Plated

OPTIONAL FEATURES:

42 CIRCUIT RULE APPLIES

BRANCH USER PLACEMENT

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

SPD DRY CONTACTS

SPD SURGE COUNTER

SPD PEAK SURGE RATING/PHASE: 160kA

SPD LINE TO GRD PROTECT

---STANDARD EQUIPMENT NAMEPLATE---

Engraved as Follows

LINE 1: 1H2

(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz

System Ampacity: 225A

35kA SYMS. SCCR

Series Rated w/ JG

MAIN: MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs:1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

39 - 20A/1P EDB

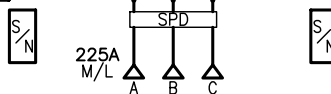
1 - 70A/3P EDB

| | | | |
|-----------------|---------------------------------|------------------------|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 1H2 (Wet) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | | | |
| DATE: | April 15 2020 | | |
| DRAWING STATUS: | RECORD | DWG# 042671088-003-01 | PG 1 OF 2 REV - |

SQUARE D
by Schneider Electric

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|----------|----|------|----|----------|----|------|
| - | ---- | -- | --/--/-- | -- | ---- | -- | --/--/-- | -- | ---- |

| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|--------------------|------|--------------|--|--------------|--------------------|----------------|--------|
| | POWER SUPPLY | | | | | | CONTROLLER | |
| 1 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 2 |
| 3 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 4 |
| 5 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 6 |
| 7 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 8 |
| 9 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 10 |
| 11 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 12 |
| 13 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 14 |
| 15 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 16 |
| 17 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 18 |
| 19 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 20 |
| 21 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 22 |
| 23 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 24 |
| 25 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 26 |
| 27 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 28 |
| 29 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 30 |
| 31 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 32 |
| 33 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 34 |
| 35 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 36 |
| 37 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 38 |
| 39 | | EDB | 20 / 1 | | 70 / 3 | EDB | | 40 |
| 41 | | EDB | 20 / 1 | | | | | 42 |
| 43 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 44 |
| 45 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 46 |
| 47 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 48 |

**PHYSICAL DATA**

ENCLOSURE Type 3R/5/12

FRONT CAT#: Trim w/Box

BOX CAT#: MH62WP

DIMENSIONS:

62"(1575mm)Hx20"(508mm)Wx6.5"(165mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm

BOTTOM - 13.25"(337)mm

SIDE - 4.1"(104)mm

PBA: 555

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 250A RATED COPPER BUS

Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master

AVAILABLE CONTROL BUS CONNECTION: 6

CONTROL BUS LEFT 21 CKT & RIGHT 21 CKT

CONNECTOR CABLE

(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz

System Ampacity: 225A

35kA SYMS. SCCR

Series Rated w/ JG

MAIN: MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

31 - 20A/1P EDB

4 - 20A/1P ECB-G3

4 - 20A/1P-PS ECB-G3

1 - 70A/3P EDB

JOB NAME: Costco Aurora, CO Depot - Costco

EQUIPMENT DESIGNATION: 1H3 (Wet)

JOB LOCATION: AURORA CO

EQUIPMENT TYPE: NF (Circuit Breaker Type)

DRAWN BY: CAD

DRAWING TYPE: ONE LINE DIAGRAM

ENGR:



DATE: December 30 2019

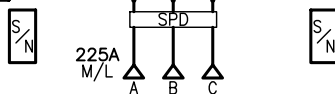
DRAWING STATUS: RECORD

DWG# 042671088-005-01

PG 1 OF 2 REV -

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|------------|---|------|--|--|----|------------|
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| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|--------------------|------|--------------|--|--------------|--------------------|----------------|--------|
| | POWER SUPPLY | | | | | | CONTROLLER | |
| 1 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 2 |
| 3 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 4 |
| 5 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 6 |
| 7 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 8 |
| 9 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 10 |
| 11 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 12 |
| 13 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 14 |
| 15 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 16 |
| 17 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 18 |
| 19 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 20 |
| 21 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 22 |
| 23 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 24 |
| 25 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 26 |
| 27 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 28 |
| 29 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 30 |
| 31 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 32 |
| 33 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 34 |
| 35 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 36 |
| 37 | | EDB | 20 / 1 | | | | | 38 |
| 39 | | EDB | 20 / 1 | | 45 / 3 | EDB | | 40 |
| 41 | | EDB | 20 / 1 | | | | | 42 |
| 43 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 44 |
| 45 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 46 |
| 47 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 48 |



PHYSICAL DATA

ENCLOSURE Type 3R/5/12

FRONT CAT#: Trim w/Box

BOX CAT#: MH62WP

DIMENSIONS:

62"(1575mm)Hx20"(508mm)Wx6.5"(165mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm

BOTTOM - 13.25"(337)mm

SIDE - 4.1"(104)mm

PBA: 555

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 250A RATED COPPER BUS

Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master

AVAILABLE CONTROL BUS CONNECTION: 6

CONTROL BUS LEFT 21 CKT & RIGHT 21 CKT

CONNECTOR CABLE

(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz

System Ampacity: 225A

22kA SYMS. SCCR

Series Rated w/ JG

MAIN: MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

31 - 20A/1P EDB

4 - 20A/1P ECB-G3

4 - 20A/1P-PS ECB-G3

1 - 45A/3P EDB


| | | | |
|-----------------|----------------------------------|------------------------|---------------------------|
| JOB NAME: | Costco Aurora, CO Depot - Costco | EQUIPMENT DESIGNATION: | 1H4 (Wet) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | | | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# 042671088-007-01 | PG 1 OF 2 REV - |



| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|----------|---|------|----|----------|----|----------|
| - | ---- | -- | --/--/-- | - | ---- | -- | --/--/-- | -- | --/--/-- |

PHYSICAL DATA CONTINUED

42 CIRCUIT RULE APPLIES
 NF Gen3 Power Supply 277VAC
 Copper GROUND BAR
 GROUP USER PLACEMENT
 COPPER SOLID NEUTRAL
 SPD DRY CONTACTS
 SPD SURGE COUNTER
 SPD PEAK SURGE RATING/PHASE: 160kA
 SPD LINE TO GRD PROTECT
 ---STANDARD EQUIPMENT NAMEPLATE---
 Engraved as Follows
 LINE 1: 1H4
 COLOR: White Surface / Black Letters
 SIZE: 3.50" Wide x 1.00" High (Std)
 TYPE: Plastic/Adhesive - Screw-on

| | | | |
|-----------------|---------------------------------|---|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 1H4 (Wet) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | |  | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# | 042671088-007-01 |
| | | PG 2 | OF 2 |
| | | REV | - |

| REV | DESCRIPTION | BY | DATE | --- | --- | --- | --- | --- | --- |
|-----|-------------|-----|------|-----|-----|-----|-----|-----|-----|
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|----------------|------|--------------|--|--------------|------|----------------|--------|
| 1 | | | | | 20/1 | EDB | PREPARED SPACE | 2 |
| 3 | | EDB | 40/3 | | 20/1 | EDB | PREPARED SPACE | 4 |
| 5 | | | | | 20/1 | EDB | PREPARED SPACE | 6 |
| 7 | | | | | 20/1 | EDB | PREPARED SPACE | 8 |
| 9 | | EDB | 40/3 | | 20/1 | EDB | PREPARED SPACE | 10 |
| 11 | | | | | 20/1 | EDB | PREPARED SPACE | 12 |
| 13 | PREPARED SPACE | EDB | 20/1 | | 20/1 | EDB | PREPARED SPACE | 14 |
| 15 | PREPARED SPACE | EDB | 20/1 | | 20/1 | EDB | PREPARED SPACE | 16 |
| 17 | PREPARED SPACE | EDB | 20/1 | | 20/1 | EDB | PREPARED SPACE | 18 |
| 19 | | | | | 20/1 | EDB | PREPARED SPACE | 20 |
| 21 | | EDB | 15/3 | | 20/1 | EDB | PREPARED SPACE | 22 |
| 23 | | | | | 20/1 | EDB | PREPARED SPACE | 24 |
| 25 | | | | | 20/1 | EDB | PREPARED SPACE | 26 |
| 27 | | EDB | 15/3 | | 20/1 | EDB | PREPARED SPACE | 28 |
| 29 | | | | | 20/1 | EDB | PREPARED SPACE | 30 |
| 31 | | | | | 20/1 | EDB | PREPARED SPACE | 32 |
| 33 | | EDB | 15/3 | | 20/1 | EDB | PREPARED SPACE | 34 |
| 35 | | | | | 20/1 | EDB | PREPARED SPACE | 36 |
| 37 | | | | | | | | 38 |
| 39 | | EDB | 25/3 | | 45/3 | EDB | | 40 |
| 41 | | | | | | | | 42 |

PHYSICAL DATA

ENCLOSURE Type 1

Surface with Door
 FRONT CAT#: NC44S
 BOX CAT#: MH44

DIMENSIONS:

44"(1118mm)Hx20"(508mm)Wx5.75"(146mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm
 BOTTOM - 13.25"(337)mm
 SIDE - 4.1"(104)mm

PBA: 550

BUSSING: 250A RATED COPPER BUS
 Silver/Tin Plated

OPTIONAL FEATURES:

BRANCH USER PLACEMENT
 Copper GROUND BAR
 GROUP USER PLACEMENT
 COPPER SOLID NEUTRAL

---STANDARD EQUIPMENT NAMEPLATE---

Engraved as Follows

LINE 1: 1H5

COLOR: White Surface / Black Letters

SIZE: 3.50" Wide x 1.00" High (Std)

TYPE: Plastic/Adhesive - Screw-on

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz
 System Ampacity: 225A
 65kA SYMS. SCCR
 Series Rated w/ JJ

MAIN. MAIN LUGS - 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

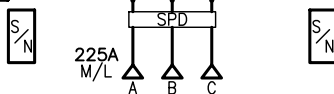
| | |
|----------------|--------------------|
| 2 - 40A/3P EDB | 21 - 20A/1P-PS EDB |
| 3 - 15A/3P EDB | 1 - 25A/3P EDB |
| 1 - 45A/3P EDB | |

| | | | |
|-----------------|----------------------------------|------------------------|---------------------------|
| JOB NAME: | Costco Aurora, CO Depot - Costco | EQUIPMENT DESIGNATION: | 1H5 (Elec Rm) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | | | |
| DATE: | January 15 2020 | | |
| DRAWING STATUS: | RECORD | DWG# 042671088-009-01 | PG 1 OF 1 REV - |

SQUARE D
 by Schneider Electric

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|-------------|---|------|--|--|-----|-------------|
| - | ---- | -- | ---/---/--- | - | ---- | | | --- | ---/---/--- |

| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|--------------------|--------|--------------|--|--------------|--------------------|-------------|--------|
| | POWER SUPPLY | | | | | | CONTROLLER | |
| 1 | | EDB | 20/1 | | 20/1 | EDB | | 2 |
| 3 | | EDB | 20/1 | | 20/1 | EDB | | 4 |
| 5 | | EDB | 20/1 | | 20/1 | EDB | | 6 |
| 7 | | EDB | 20/1 | | 20/1 | EDB | | 8 |
| 9 | | EDB | 20/1 | | 20/1 | EDB | | 10 |
| 11 | | EDB | 20/1 | | 20/1 | EDB | | 12 |
| 13 | | EDB | 20/1 | | 20/1 | EDB | | 14 |
| 15 | | EDB | 20/1 | | 20/1 | ECB-G3 | | 16 |
| 17 | | EDB | 20/1 | | 20/1 | ECB-G3 | | 18 |
| 19 | | | | | 20/1 | EDB | | 20 |
| 21 | | EDB | 20/3 | | 20/1 | EDB | | 22 |
| 23 | | | | | 20/1 | EDB | | 24 |
| 25 | | | | | | | | 26 |
| 27 | | EDB | 20/3 | | 20/3 | EDB | | 28 |
| 29 | | | | | | | | 30 |
| 31 | | | | | | | | 32 |
| 33 | | EDB | 20/3 | | 15/3 | EDB | | 34 |
| 35 | | | | | | | | 36 |
| 37 | PREPARED SPACE | ECB-G3 | 20/1 | | | | | 38 |
| 39 | PREPARED SPACE | ECB-G3 | 20/1 | | 45/3 | EDB | | 40 |
| 41 | | EDB | 20/1 | | | | | 42 |
| 43 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 44 |
| 45 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 46 |
| 47 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 48 |



PHYSICAL DATA

ENCLOSURE Type 1

Surface with Door
FRONT CAT#: NC62S
BOX CAT#: MH62

DIMENSIONS:

62"(1575mm)Hx20"(508mm)Wx5.75"(146mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm
BOTTOM - 13.25"(337)mm
SIDE - 4.1"(104)mm

PBA: PBA550T

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 250A RATED COPPER BUS
Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master
AVAILABLE CONTROL BUS CONNECTION: 6
CONTROL BUS LEFT 21 CKT & RIGHT 21 CKT
(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz
System Ampacity: 225A
65kA SYMS. SCCR
Series Rated w/ JJ

MAIN: MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

20 - 20A/1P EDB 4 - 20A/3P EDB
2 - 20A/1P-PS ECB-G3 2 - 20A/1P ECB-G3
1 - 15A/3P EDB 1 - 45A/3P EDB

| | | | |
|-----------------|----------------------------------|------------------------|---------------------------|
| JOB NAME: | Costco Aurora, CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H3 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | | | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# 042671088-016-01 | PG 1 OF 2 REV - |



| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|----------|---|------|----|----------|----|----------|
| - | ---- | -- | --/--/-- | - | ---- | -- | --/--/-- | -- | --/--/-- |

PHYSICAL DATA CONTINUED

CONNECTOR CABLE

42 CIRCUIT RULE APPLIES

NF Gen3 Power Supply 277VAC

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

SPD DRY CONTACTS

SPD SURGE COUNTER

SPD PEAK SURGE RATING/PHASE: 160kA

SPD LINE TO GRD PROTECT

---STANDARD EQUIPMENT NAMEPLATE---


Engraved as Follows

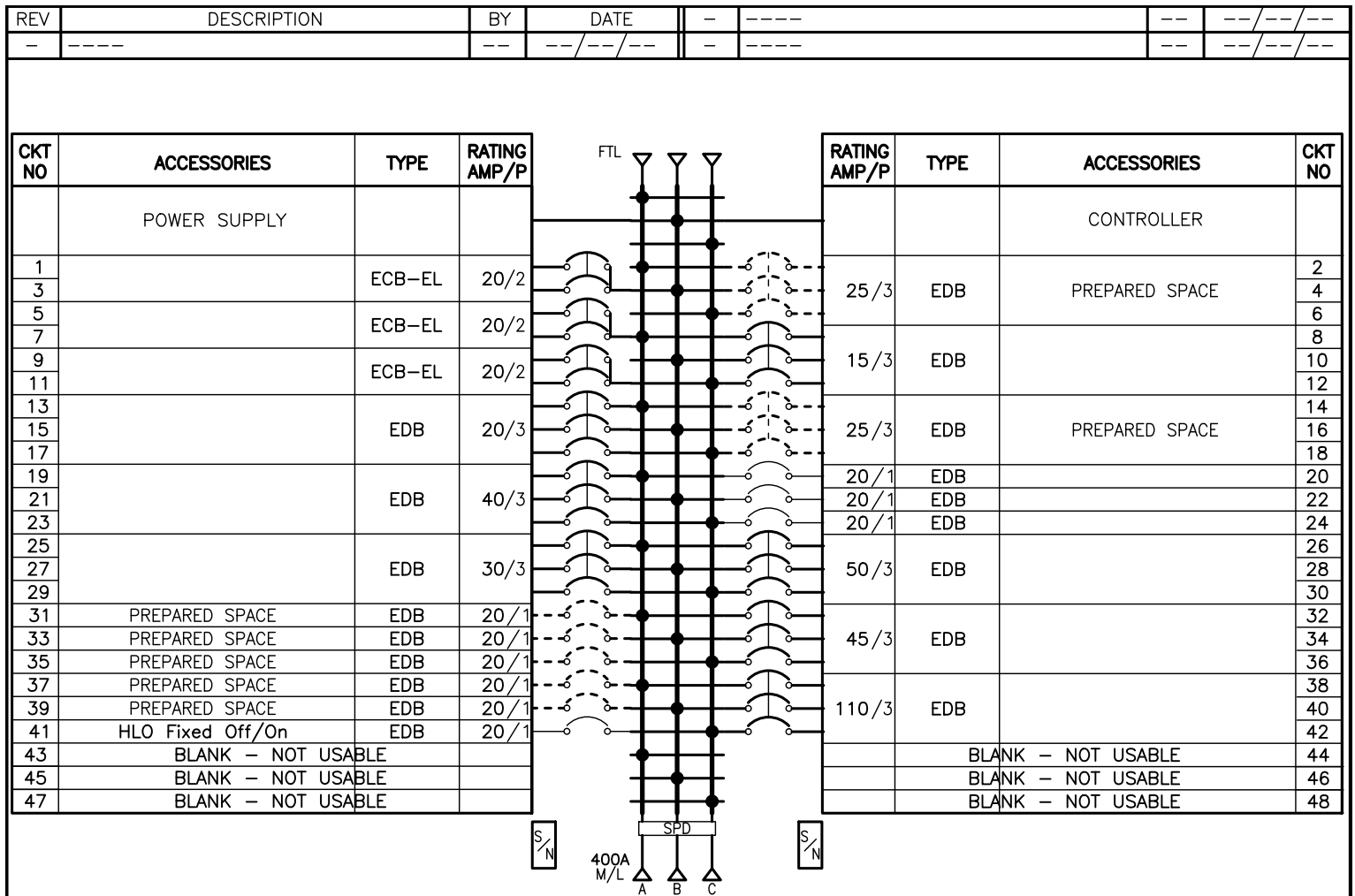
LINE 1: 2H3

COLOR: White Surface / Black Letters

SIZE: 3.50" Wide x 1.00" High (Std)

TYPE: Plastic/Adhesive - Screw-on

| | | | |
|-----------------|---------------------------------|---|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H3 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | |  | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# | 042671088-016-01 |
| | | PG | 2 |
| | | OF | 2 |
| | | REV | - |



PHYSICAL DATA

ENCLOSURE Type 1

Surface with Door
 FRONT CAT#: NC80VS
 BOX CAT#: MH80

DIMENSIONS:

80''(2032mm)Hx20''(508mm)Wx5.75''(146mm)D

WIRE BENDING SPACE:

TOP - 17''(433)mm
 BOTTOM - 17''(433)mm
 SIDE - 4.1''(104)mm

PBA: PBA551T

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 400A RATED COPPER BUS
 Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master
 AVAILABLE CONTROL BUS CONNECTION: 5
 CONTROL BUS LEFT 21 CKT

(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz

System Ampacity: 400A

35kA SYMS. SCCR

Series Rated w/ LR

MAIN: MAIN LUGS : 400A

ACC: FEED THRU LUGS

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - 1/0 - 750, (2) 1/0 - 350 kcmil

Phase Lugs: 1 - 1/0 - 750, (2) 1/0 - 350 kcmil

-----BRANCH SUMMATION-----

| | |
|-------------------|--------------------|
| 3 - 20A/2P ECB-EL | 1 - 20A/3P EDB |
| 1 - 40A/3P EDB | 1 - 30A/3P EDB |
| 5 - 20A/1P-PS EDB | 1 - 20A/1P EDB HPL |
| 2 - 25A/3P-PS EDB | 1 - 15A/3P EDB |
| 3 - 20A/1P EDB | 1 - 50A/3P EDB |
| 1 - 45A/3P EDB | 1 - 110A/3P EDB |

JOB NAME: Costco Aurora, CO Depot - Costco

EQUIPMENT DESIGNATION: 2H4 (Dry)

JOB LOCATION: AURORA CO

EQUIPMENT TYPE: NF (Circuit Breaker Type)

DRAWN BY: CAD

DRAWING TYPE: ONE LINE DIAGRAM

ENGR:

DATE: June 19 2020

DRAWING STATUS: RECORD

DWG# 042671088-019-01



PG 1 OF 2 REV -

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|------------|---|------|----|------------|----|------------|
| - | ---- | -- | --/--/---- | - | ---- | -- | --/--/---- | -- | --/--/---- |

PHYSICAL DATA CONTINUED

CONNECTOR CABLE

42 CIRCUIT RULE APPLIES

NF Gen3 Power Supply 277VAC

BRANCH USER PLACEMENT

SAME HEIGHT BOXES

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

SPD DRY CONTACTS

SPD SURGE COUNTER

SPD PEAK SURGE RATING/PHASE: 160kA

SPD LINE TO GRD PROTECT

---STANDARD EQUIPMENT NAMEPLATE---


Engraved as Follows

LINE 1: 2H4

COLOR: White Surface / Black Letters

SIZE: 3.50" Wide x 1.00" High (Std)

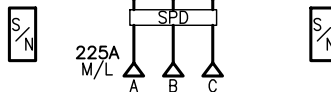
TYPE: Plastic/Adhesive - Screw-on

| | | | |
|-----------------|---------------------------------|---|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H4 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | |  | |
| DATE: | June 19 2020 | | |
| DRAWING STATUS: | RECORD | DWG# | 042671088-019-01 |
| | | PG 2 | OF 2 |
| | | REV | - |

| | | |
|------|------|-------|
| PG 1 | OF 2 | REV - |
|------|------|-------|

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|------------|---|------|----|------------|----|------------|
| - | ---- | -- | --/--/---- | - | ---- | -- | --/--/---- | -- | --/--/---- |

| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|--------------------|--------|--------------|--|--------------|--------|--------------------|--------|
| | POWER SUPPLY | | | | | | CONTROLLER | |
| 1 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 2 |
| 3 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 4 |
| 5 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 6 |
| 7 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 8 |
| 9 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 10 |
| 11 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 12 |
| 13 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 14 |
| 15 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 16 |
| 17 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 18 |
| 19 | | EDB | 20 / 1 | | | | | 20 |
| 21 | | EDB | 20 / 1 | | 15 / 3 | EDB | | 22 |
| 23 | | EDB | 20 / 1 | | | | | 24 |
| 25 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | | 26 |
| 27 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | EDB | | 28 |
| 29 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 30 |
| 31 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 32 |
| 33 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 34 |
| 35 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 36 |
| 37 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 38 |
| 39 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 45 / 3 | EDB | | 40 |
| 41 | HLO Fixed Off/On | EDB | 20 / 1 | | | | | 42 |
| 43 | BLANK - NOT USABLE | | | | | | BLANK - NOT USABLE | 44 |
| 45 | BLANK - NOT USABLE | | | | | | BLANK - NOT USABLE | 46 |
| 47 | BLANK - NOT USABLE | | | | | | BLANK - NOT USABLE | 48 |



PHYSICAL DATA

ENCLOSURE Type 1

Surface with Door
FRONT CAT#: NC62S
BOX CAT#: MH62

DIMENSIONS:

62"(1575mm)Hx20"(508mm)Wx5.75"(146mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm
BOTTOM - 13.25"(337)mm
SIDE - 4.1"(104)mm

PBA: PBA550T

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 250A RATED COPPER BUS
Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master
AVAILABLE CONTROL BUS CONNECTION: 6
CONTROL BUS LEFT 21 CKT & RIGHT 21 CKT
(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz

System Ampacity: 225A

35kA SYMS. SCCR

Series Rated w/ JG

MAIN: MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

22 - 20A/1P EDB 12 - 20A/1P-PS ECB-G3

1 - 20A/1P EDB HPL 1 - 15A/3P EDB

1 - 20A/1P ECB-G3 1 - 45A/3P EDB

| | | | |
|-----------------|----------------------------------|------------------------|---------------------------|
| JOB NAME: | Costco Aurora, CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H5 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | | | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# 042671088-025-01 | PG 1 OF 2 REV - |



| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|------------|---|------|----|------------|----|------------|
| - | ---- | -- | --/--/---- | - | ---- | -- | --/--/---- | -- | --/--/---- |

PHYSICAL DATA CONTINUED

CONNECTOR CABLE

42 CIRCUIT RULE APPLIES

NF Gen3 Power Supply 277VAC

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

SPD DRY CONTACTS

SPD SURGE COUNTER

SPD PEAK SURGE RATING/PHASE: 160kA

SPD LINE TO GRD PROTECT

---STANDARD EQUIPMENT NAMEPLATE---


Engraved as Follows

LINE 1: 2H5

COLOR: White Surface / Black Letters

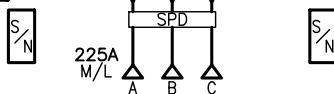
SIZE: 3.50" Wide x 1.00" High (Std)

TYPE: Plastic/Adhesive - Screw-on

| | | | |
|-----------------|---------------------------------|---|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H5 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | |  | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# | 042671088-025-01 |
| | | PG 2 | OF 2 |
| | | REV | - |

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|-------------|---|-------|--|--|-----|-------------|
| - | ----- | -- | ---/---/--- | - | ----- | | | --- | ---/---/--- |

| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|--------------------|--------|--------------|--|--------------|--------------------|----------------|--------|
| | POWER SUPPLY | | | | | | CONTROLLER | |
| 1 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 2 |
| 3 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 4 |
| 5 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 6 |
| 7 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 8 |
| 9 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 10 |
| 11 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 12 |
| 13 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | | 14 |
| 15 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | | 16 |
| 17 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | | 18 |
| 19 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | | 20 |
| 21 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 22 |
| 23 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 24 |
| 25 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 26 |
| 27 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 15 / 3 | EDB | | 28 |
| 29 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 30 |
| 31 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 15 / 3 | EDB | | 32 |
| 33 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 34 |
| 35 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 36 |
| 37 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 45 / 3 | EDB | | 38 |
| 39 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 40 |
| 41 | HLO Fixed Off/On | EDB | 20 / 1 | | | | | 42 |
| 43 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 44 |
| 45 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 46 |
| 47 | BLANK - NOT USABLE | | | | | BLANK - NOT USABLE | | 48 |



PHYSICAL DATA

ENCLOSURE Type 1

Surface with Door
FRONT CAT#: NC62S
BOX CAT#: MH62

DIMENSIONS:

62"(1575mm)Hx20"(508mm)Wx5.75"(146mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm
BOTTOM - 13.25"(337)mm
SIDE - 4.1"(104)mm

PBA: PBA550T

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 250A RATED COPPER BUS
Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master
AVAILABLE CONTROL BUS CONNECTION: 6
CONTROL BUS LEFT 21 CKT & RIGHT 21 CKT
(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz
System Ampacity: 225A
18kA SYMS. SCCR
Series Rated w/ JG

MAIN: MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

| | |
|--------------------|-----------------------|
| 12 - 20A/1P EDB | 16 - 20A/1P-PS ECB-G3 |
| 1 - 20A/1P EDB HPL | 4 - 20A/1P ECB-G3 |
| 2 - 15A/3P EDB | 1 - 45A/3P EDB |

JOB NAME: Costco Aurora, CO Depot - Costco

JOB LOCATION: AURORA CO

DRAWN BY: CAD

ENGR:

DATE: December 30 2019

DRAWING STATUS: RECORD

EQUIPMENT DESIGNATION: 2H6 (Dry)

EQUIPMENT TYPE: NF (Circuit Breaker Type)

DRAWING TYPE: ONE LINE DIAGRAM



DWG# 042671088-028-01

PG 1 OF 2 REV -

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|----------|---|------|----|----------|----|----------|
| - | ---- | -- | --/--/-- | - | ---- | -- | --/--/-- | -- | --/--/-- |

PHYSICAL DATA CONTINUED

CONNECTOR CABLE

42 CIRCUIT RULE APPLIES

NF Gen3 Power Supply 277VAC

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

SPD DRY CONTACTS

SPD SURGE COUNTER

SPD PEAK SURGE RATING/PHASE: 160kA

SPD LINE TO GRD PROTECT

---STANDARD EQUIPMENT NAMEPLATE---


Engraved as Follows

LINE 1: 2H6

COLOR: White Surface / Black Letters

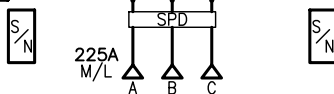
SIZE: 3.50" Wide x 1.00" High (Std)

TYPE: Plastic/Adhesive - Screw-on

| | | | |
|-----------------|---------------------------------|---|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H6 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | |  | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# | 042671088-028-01 |
| | | PG 2 | OF 2 |
| | | REV | - |

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|-------------|---|-------|--|--|-------------|--|
| - | ----- | -- | ---/---/--- | - | ----- | | | ---/---/--- | |

| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|--------------------|--------|--------------|--|--------------|--------|--------------------|--------|
| | POWER SUPPLY | | | | | | CONTROLLER | |
| 1 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 2 |
| 3 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 4 |
| 5 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 6 |
| 7 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 8 |
| 9 | | EDB | 20 / 1 | | 20 / 1 | ECB-G3 | | 10 |
| 11 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 12 |
| 13 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 14 |
| 15 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 15 / 3 | EDB | | 16 |
| 17 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 18 |
| 19 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | | 20 |
| 21 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 22 |
| 23 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 24 |
| 25 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 26 |
| 27 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 28 |
| 29 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 30 |
| 31 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 32 |
| 33 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 34 |
| 35 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 36 |
| 37 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 38 |
| 39 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 45 / 3 | EDB | | 40 |
| 41 | HLO Fixed Off/On | EDB | 20 / 1 | | | | | 42 |
| 43 | BLANK - NOT USABLE | | | | | | BLANK - NOT USABLE | 44 |
| 45 | BLANK - NOT USABLE | | | | | | BLANK - NOT USABLE | 46 |
| 47 | BLANK - NOT USABLE | | | | | | BLANK - NOT USABLE | 48 |



PHYSICAL DATA

ENCLOSURE Type 1

Surface with Door
FRONT CAT#: NC62S
BOX CAT#: MH62

DIMENSIONS:

62"(1575mm)Hx20"(508mm)Wx5.75"(146mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm
BOTTOM - 13.25"(337)mm
SIDE - 4.1"(104)mm

PBA: PBA550T

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 250A RATED COPPER BUS
Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master
AVAILABLE CONTROL BUS CONNECTION: 6
CONTROL BUS LEFT 21 CKT & RIGHT 21 CKT
(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz
System Ampacity: 225A
22kA SYMS. SCCR
Series Rated w/ JG

MAIN: MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

| | |
|--------------------|-----------------------|
| 10 - 20A/1P EDB | 22 - 20A/1P-PS ECB-G3 |
| 1 - 20A/1P EDB HPL | 3 - 20A/1P ECB-G3 |
| 1 - 15A/3P EDB | 1 - 45A/3P EDB |

JOB NAME: Costco Aurora, CO Depot - Costco

EQUIPMENT DESIGNATION: 2H7 (Dry)

JOB LOCATION: AURORA CO

EQUIPMENT TYPE: NF (Circuit Breaker Type)

DRAWN BY: CAD

DRAWING TYPE: ONE LINE DIAGRAM

ENGR:

DATE: December 30 2019

DRAWING STATUS: RECORD

DWG# 042671088-031-01



PG 1 OF 2 REV -

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|----------|---|-------|----|----------|----|----------|
| - | ----- | -- | --/--/-- | - | ----- | -- | --/--/-- | -- | --/--/-- |

PHYSICAL DATA CONTINUED

CONNECTOR CABLE

42 CIRCUIT RULE APPLIES

NF Gen3 Power Supply 277VAC

BRANCH USER PLACEMENT

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

SPD DRY CONTACTS

SPD SURGE COUNTER

SPD PEAK SURGE RATING/PHASE: 160kA

SPD LINE TO GRD PROTECT

---STANDARD EQUIPMENT NAMEPLATE---


Engraved as Follows

LINE 1: 2H7

COLOR: White Surface / Black Letters

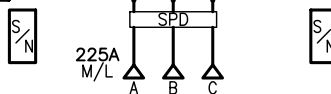
SIZE: 3.50" Wide x 1.00" High (Std)

TYPE: Plastic/Adhesive - Screw-on

| | | | |
|-----------------|---------------------------------|---|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H7 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | |  | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# | 042671088-031-01 |
| | | PG 2 | OF 2 |
| | | REV | - |

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|-------------|----|-----|-----|-----|-----|-----|
| - | ----- | -- | ---/---/--- | -- | --- | --- | --- | --- | --- |

| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|--------------------|--------|--------------|--|--------------|--------|--------------------|--------|
| | POWER SUPPLY | | | | | | CONTROLLER | |
| 1 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 2 |
| 3 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 4 |
| 5 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 6 |
| 7 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 8 |
| 9 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 10 |
| 11 | | EDB | 20 / 1 | | 20 / 1 | EDB | | 12 |
| 13 | | EDB | 20 / 1 | | | | | 14 |
| 15 | | EDB | 20 / 1 | | 15 / 3 | EDB | | 16 |
| 17 | | EDB | 20 / 1 | | | | | 18 |
| 19 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | | 20 |
| 21 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | EDB | | 22 |
| 23 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | EDB | | 24 |
| 25 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | EDB | HLO Fixed Off/On | 26 |
| 27 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 28 |
| 29 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 30 |
| 31 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 32 |
| 33 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 34 |
| 35 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 20 / 1 | ECB-G3 | PREPARED SPACE | 36 |
| 37 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 38 |
| 39 | PREPARED SPACE | ECB-G3 | 20 / 1 | | 45 / 3 | EDB | | 40 |
| 41 | PREPARED SPACE | ECB-G3 | 20 / 1 | | | | | 42 |
| 43 | BLANK - NOT USABLE | | | | | | BLANK - NOT USABLE | 44 |
| 45 | BLANK - NOT USABLE | | | | | | BLANK - NOT USABLE | 46 |
| 47 | BLANK - NOT USABLE | | | | | | BLANK - NOT USABLE | 48 |



PHYSICAL DATA

ENCLOSURE Type 1

Surface with Door
FRONT CAT#: NC62S
BOX CAT#: MH62

DIMENSIONS:

62"(1575mm)Hx20"(508mm)Wx5.75"(146mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm
BOTTOM - 13.25"(337)mm
SIDE - 4.1"(104)mm

PBA: PBA550T

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 250A RATED COPPER BUS
Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master
AVAILABLE CONTROL BUS CONNECTION: 6
CONTROL BUS LEFT 21 CKT & RIGHT 21 CKT
(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz

System Ampacity: 225A

18kA SYMS. SCCR

Series Rated w/ DG

MAIN. MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

17 - 20A/1P EDB 17 - 20A/1P-PS ECB-G3

1 - 15A/3P EDB 1 - 20A/1P ECB-G3

1 - 20A/1P EDB HPL 1 - 45A/3P EDB

JOB NAME: Costco Aurora, CO Depot - Costco

EQUIPMENT DESIGNATION: 2H8 (Dry)

JOB LOCATION: AURORA CO

EQUIPMENT TYPE: NE (Circuit Breaker Type)

DRAWN BY: CAD

DRAWING TYPE: ONE LINE DIAGRAM

ENGR:

DATE: December 30 2019

DRAWING STATUS: RECORD

DWG# 042671088-034-01



by Schneider Electric

PG 1 OF 2 REV -

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|----------|---|------|----|----------|----|----------|
| - | ---- | -- | --/--/-- | - | ---- | -- | --/--/-- | -- | --/--/-- |

PHYSICAL DATA CONTINUED

CONNECTOR CABLE

42 CIRCUIT RULE APPLIES

NF Gen3 Power Supply 277VAC

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

SPD DRY CONTACTS

SPD SURGE COUNTER

SPD PEAK SURGE RATING/PHASE: 160kA

SPD LINE TO GRD PROTECT

---STANDARD EQUIPMENT NAMEPLATE---


Engraved as Follows

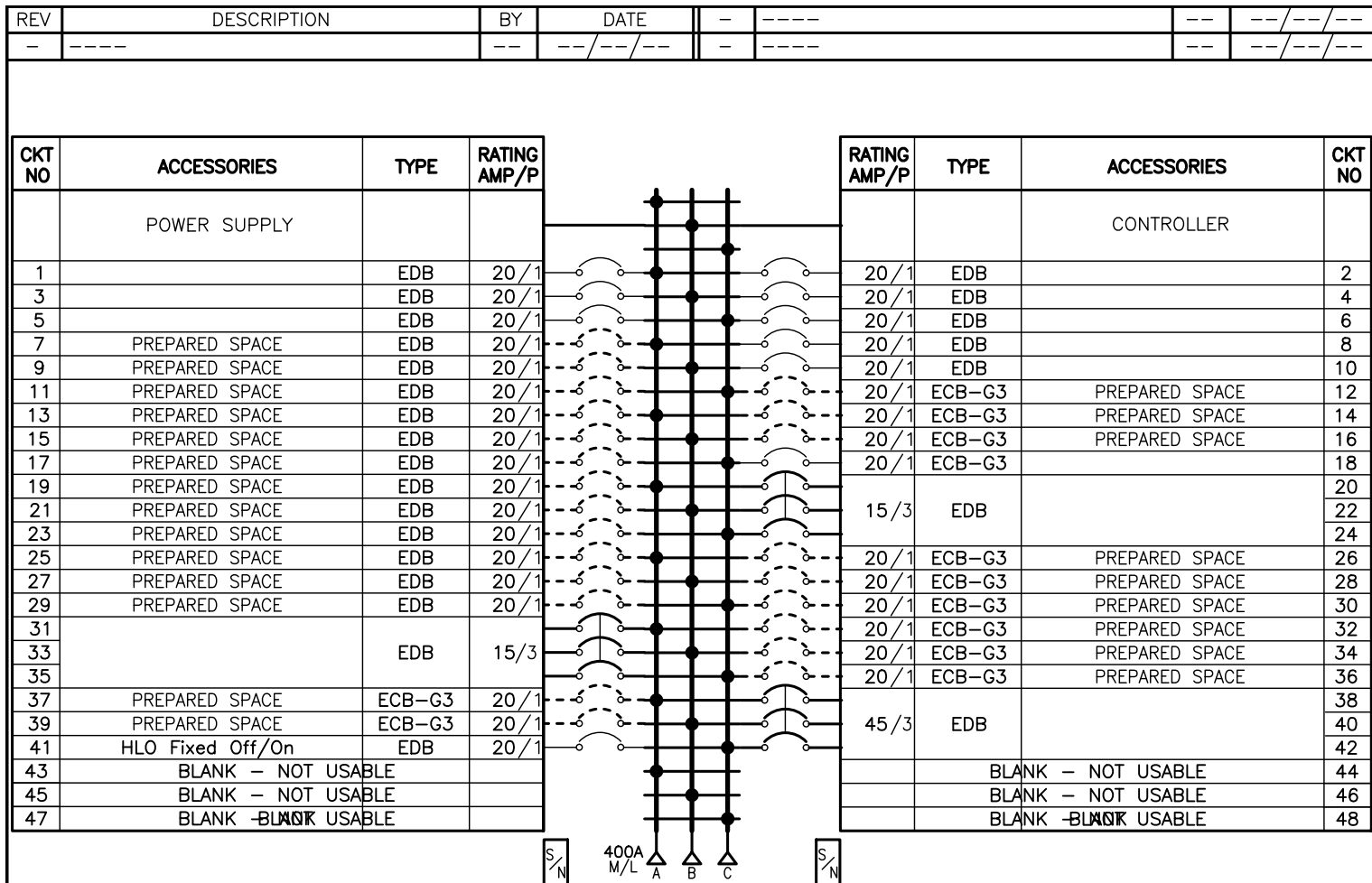
LINE 1: 2H8

COLOR: White Surface / Black Letters

SIZE: 3.50" Wide x 1.00" High (Std)

TYPE: Plastic/Adhesive - Screw-on

| | | | |
|-----------------|---------------------------------|---|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H8 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | |  | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# | 042671088-034-01 |
| | | PG 2 | OF 2 |
| | | REV | - |



PHYSICAL DATA

ENCLOSURE Type 1

Surface with Door
 FRONT CAT#: NC62VS
 BOX CAT#: MH62

DIMENSIONS:

62"(1575mm)Hx20"(508mm)Wx5.75"(146mm)D

WIRE BENDING SPACE:

TOP - 12.25"(312)mm
 BOTTOM - 17"(433)mm
 SIDE - 4.1"(104)mm

PBA: 551

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 400A RATED COPPER BUS
 Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master
 AVAILABLE CONTROL BUS CONNECTION: 6
 CONTROL BUS LEFT 21 CKT & RIGHT 21 CKT
 (Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz

System Ampacity: 400A

18kA SYMS. SCCR

Series Rated w/ DG

MAIN: MAIN LUGS : 400A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - 1/0 - 750, (2) 1/0 - 350 kcmil

-----BRANCH SUMMATION-----

8 - 20A/1P EDB

12 - 20A/1P-PS EDB

2 - 15A/3P EDB

11 - 20A/1P-PS ECB-G3

1 - 20A/1P EDB HPL

1 - 20A/1P ECB-G3

1 - 45A/3P EDB

JOB NAME: Costco Aurora, CO Depot - Costco

EQUIPMENT DESIGNATION: 2H9 (Dry)

JOB LOCATION: AURORA CO

EQUIPMENT TYPE: NF (Circuit Breaker Type)

DRAWN BY: CAD

DRAWING TYPE: ONE LINE DIAGRAM

ENGR:

DATE: December 30 2019

DRAWING STATUS: RECORD

DWG# 042671088-037-01

SQUARE D
 by Schneider Electric

PG 1 OF 2 REV -

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|----------|---|------|----|----------|----|----------|
| - | ---- | -- | --/--/-- | - | ---- | -- | --/--/-- | -- | --/--/-- |

PHYSICAL DATA CONTINUED

CONNECTOR CABLE

42 CIRCUIT RULE APPLIES

NF Gen3 Power Supply 277VAC

BRANCH USER PLACEMENT

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

---STANDARD EQUIPMENT NAMEPLATE---


Engraved as Follows

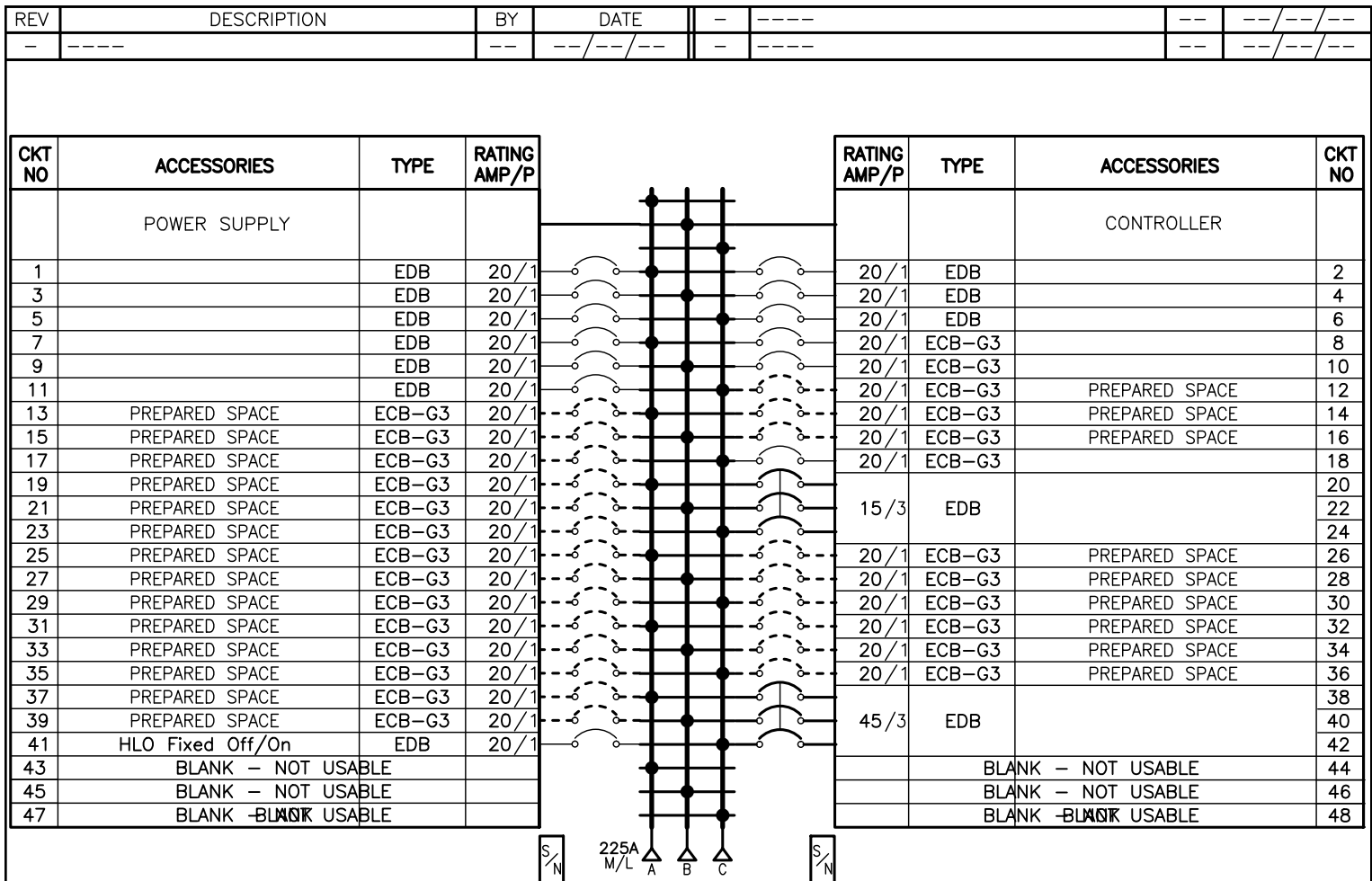
LINE 1: 2H9

COLOR: White Surface / Black Letters

SIZE: 3.50" Wide x 1.00" High (Std)

TYPE: Plastic/Adhesive - Screw-on

| | | | |
|-----------------|---------------------------------|---|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H9 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | |  <small>by Schneider Electric</small> | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# | 042671088-037-01 |
| | | PG 2 | OF 2 |
| | | REV | - |



PHYSICAL DATA

ENCLOSURE Type 1

Surface with Door
FRONT CAT#: NC50S
BOX CAT#: MH50

DIMENSIONS:

50"(1270mm)Hx20"(508mm)Wx5.75"(146mm)D

WIRE BENDING SPACE:

TOP - 5"(127)mm
BOTTOM - 13.25"(337)mm
SIDE - 4.1"(104)mm

PBA: 550

POWERLINK DWG# 5210, 5211, 5212, 5213

BUSSING: 250A RATED COPPER BUS
Silver/Tin Plated

OPTIONAL FEATURES:

POWERLINK NF3500G4 Master
AVAILABLE CONTROL BUS CONNECTION: 6
CONTROL BUS LEFT 21 CKT & RIGHT 21 CKT
(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz

System Ampacity: 225A

18kA SYMS. SCCR

Series Rated w/ DG

MAIN: MAIN LUGS : 225A

Bottom FEED

INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:

Wire Bending Space:

Phase Lugs: 1 - #6 - 350 kcmil

-----BRANCH SUMMATION-----

9 - 20A/1P EDB

23 - 20A/1P-PS ECB-G3

1 - 20A/1P EDB HPL

3 - 20A/1P ECB-G3

1 - 15A/3P EDB

1 - 45A/3P EDB

JOB NAME: Costco Aurora, CO Depot - Costco

EQUIPMENT DESIGNATION: 2H10 (Dry)

JOB LOCATION: AURORA CO

EQUIPMENT TYPE: NF (Circuit Breaker Type)

DRAWN BY: CAD

DRAWING TYPE: ONE LINE DIAGRAM

ENGR:

DATE: December 30 2019

DRAWING STATUS: RECORD

DWG# 042671088-040-01



by Schneider Electric

PG 1 OF 2 REV -

| REV | DESCRIPTION | BY | DATE | | | | | | |
|-----|-------------|----|----------|---|-------|----|----------|----|----------|
| - | ----- | -- | --/--/-- | - | ----- | -- | --/--/-- | -- | --/--/-- |

PHYSICAL DATA CONTINUED

CONNECTOR CABLE

42 CIRCUIT RULE APPLIES

NF Gen3 Power Supply 277VAC

Copper GROUND BAR

GROUP USER PLACEMENT

COPPER SOLID NEUTRAL

---STANDARD EQUIPMENT NAMEPLATE---


Engraved as Follows

LINE 1: 2H10

COLOR: White Surface / Black Letters

SIZE: 3.50" Wide x 1.00" High (Std)

TYPE: Plastic/Adhesive - Screw-on

| | | | |
|-----------------|---------------------------------|---|---------------------------|
| JOB NAME: | Costco Aurora,CO Depot - Costco | EQUIPMENT DESIGNATION: | 2H10 (Dry) |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | NF (Circuit Breaker Type) |
| DRAWN BY: | CAD | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | |  | |
| DATE: | December 30 2019 | | |
| DRAWING STATUS: | RECORD | DWG# | 042671088-040-01 |
| | | PG 2 | OF 2 |
| | | REV | - |

| | | | | | | | | | | | | | | | | |
|-----|-------------|--|--|--|--|--|-----|----------|---|--------------------|-----|----------|---|------|----|----------|
| REV | DESCRIPTION | | | | | | BY | DATE | B | CHG FROM MTZ TO NW | MVN | 06/27/20 | - | ---- | -- | --/--/-- |
| A | CO REV 15 | | | | | | BAK | 04/28/20 | - | ---- | -- | --/--/-- | - | ---- | -- | --/--/-- |

| POWER STYLE QED-2 SWITCHBOARD | | | | | | | | | | | | | |
|-------------------------------|--------|-----------------|------------------------------|----------|------------|----|-------------------|-----|----------------------|------------------|-----|-----------------|-------------------------------|
| SECT NO | CKT NO | IMD /GMD CONFIG | DEVICE /FRAME RATING | TRIP AMP | FUSE /TRIP | #P | DESIGNATION | N/P | LUG/WIRE INFORMATION | | | | ACCESSORIES / NOTES |
| | | | | | | | | | QTY | PHASE WIRE RANGE | QTY | NEUT WIRE RANGE | |
| 1 | - | - | 480kA SPD | - | - | - | - | - | - | - | - | - | SPD |
| 1 | M1 | FIX | NW-W H3 4000AF/4000AS Plug A | 4000A | P-LSIG | 4P | MSB1 MAIN | No | 12 | 3/0 - 750 kcmil | 12 | 3/0 - 750 kcmil | GF,SDE1,OF4,KEY PM5K,COM,ERMS |
| 2 | G1 | FIX | NW-W H3 4000AF/4000AS Plug A | 4000A | P-LSIG | 4P | GEN1 Breaker | No | 12 | 600 kcmil | 12 | 600 kcmil | GF,SDE1,OF4,KEY COM,ERMS |
| 3 | 1 | 4.5 in | JR | 200A | - | 3P | 1H4 | No | 1 | 3/0 - 350 kcmil | 1 | 3/0 - 350kcmil | |
| 3 | 2 | 6 in | LL 400A | 400A | S-LI | 3P | 1H7 | No | 1 | 600 kcmil | 1 | 600 kcmil | LK5 |
| 3 | 3 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | Future Space | No | 2 | 4/0 - 500kcmil | 2 | 4/0 - 500kcmil | |
| 3 | 4 | 9 in | PL 1200A Plug A | 1200A | S-LI | 3P | Chiller 2 | No | 4 | 3/0 - 500 kcmil | 4 | 3/0 - 500kcmil | |
| 3 | 5 | 9 in | PL 1200A Plug A | 1200A | S-LI | 3P | Chiller 1 | No | 4 | 3/0 - 500 kcmil | 4 | 3/0 - 500kcmil | |
| 3 | 6 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | Future Space | No | 2 | 4/0 - 500kcmil | 2 | 4/0 - 500kcmil | |
| 3 | 7 | 6 in | LL 400A | 400A | S-LI | 3P | 1H6 | No | 1 | 600 kcmil | 1 | 600 kcmil | LK5 |
| 3 | 8 | 4.5 in | JR | 200A | - | 3P | 1H5 | No | 1 | 3/0 - 350 kcmil | 1 | 3/0 - 350kcmil | |
| 4 | 9 | 4.5 in | JR | 200A | - | 3P | 1H2 | No | 1 | 3/0 - 350 kcmil | 1 | 3/0 - 350kcmil | |
| 4 | 10 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | Future Space | No | 2 | 4/0 - 500kcmil | 2 | 4/0 - 500kcmil | |
| 4 | 11 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | Future Space | No | 2 | 4/0 - 500kcmil | 2 | 4/0 - 500kcmil | |
| 4 | 12 | 9 in | PL 800A Plug A | 800A | S-LI | 3P | 1H10 | No | 2 | 600 kcmil | 2 | 600 kcmil | LK1 |
| 4 | 13 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | Future SPace | No | 2 | 4/0 - 500kcmil | 2 | 4/0 - 500kcmil | |
| 4 | 14 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | Future Space | No | 2 | 4/0 - 500kcmil | 2 | 4/0 - 500kcmil | |
| 4 | 15 | 4.5 in | JR | 200A | - | 3P | 1H1 | No | 1 | 3/0 - 350 kcmil | 1 | 3/0 - 350kcmil | |
| 4 | 16 | 4.5 in | JR | 200A | - | 3P | 1H3 | No | 1 | 3/0 - 350 kcmil | 1 | 3/0 - 350kcmil | |
| 4 | 17 | 4.5 in | JL | 250A | - | 3P | Chiller Pump Skid | No | 1 | 3/0 - 350 kcmil | 1 | 3/0 - 350kcmil | |
| 5 | TIE | FIX | NW-W H3 4000AF/4000AS Plug A | 4000A | P-LSIG | 4P | TIE SWITCH | No | - | - | - | - | GF,SDE1,OF4,KEY COM,ERMS |
| 6 | 27 | 6 in | LL 400A | 400A | S-LI | 3P | 2H18 | No | 1 | 600 kcmil | 1 | 600 kcmil | LK5 |
| 6 | 28 | 6 in | LR 400A | 400A | S-LI | 3P | 2H4 | No | 1 | 600 kcmil | 1 | 600 kcmil | LK5 |
| 6 | 29 | 6 in | LL 400A | 400A | S-LI | 3P | 2H9 | No | 2 | 3/0 - 250 kcmil | 2 | 3/0 - 250 kcmil | |
| 6 | 30 | 6 in | LL 400A | 400A | S-LI | 3P | 2H17 | No | 1 | 600 kcmil | 1 | 600 kcmil | LK5 |
| 6 | 31 | 4.5 in | JL | 200A | - | 3P | 2H16 | No | 1 | 3/0 - 350 kcmil | 1 | 3/0 - 350kcmil | |

| LEGEND | |
|--------|---------------------------------|
| COM | Communications |
| ERMS | Energy Reduction Maintenance SW |
| GF | Ground Fault |
| KEY | Key Interlock |
| LK1 | AL800P6K Lug Kit |
| LK5 | AL400L61K3 Lug Kit |
| OF4 | 4 Form C Breaker Aux Contacts |
| PM5K | Power Meter PM55XX |
| SDE1 | Over Current Trip Switch |
| SPD | Surge Protection Device |

277
480Y/277

100,000

200,000

18,000


| | | | | |
|--------------------------------------|---------------------------|-------|--------|--------|
| EJ, BJ, HJ, JJ | ECB-G3 | 15-30 | 15-30 | 15-20 |
| HL, JL, LL | EDB, EGB, EJB | 15-70 | 15-125 | 15-125 |
| HL, JL, LL | EDB-EPD, EGB-EPD, EJB-EPD | 15-50 | - | - |
| Class J or T (600 V) 400 A Max Fuses | EDB, EGB, EJB | 15-70 | 15-125 | 15-125 |
| Class J or T (600 V) 400 A Max Fuses | EDB-EPD, EGB-EPD, EJB-EPD | 15-50 | - | - |
| HR, JR, LR | EDB, EGB, EJB | 15-70 | 15-125 | 15-125 |
| HR, JR, LR | EDB-EPD, EGB-EPD, EJB-EPD | 15-50 | - | - |
| HR, JR | ECB-G3 | 15-30 | 15-30 | 15-20 |
| Class J or T (600 V) 200 A Max Fuses | EDB, EGB, EJB | 15-70 | 15-125 | 15-125 |
| Class J or T (600 V) 200 A Max Fuses | EDB-EPD, EGB-EPD, EJB-EPD | 15-50 | - | - |
| Class J or T (600 V) 200 A Max Fuses | ECB-G3 | 15-30 | 15-30 | 15-20 |
| HG, BG, JG, LG | FDR | 15-70 | 15-100 | 15-100 |

| | | | |
|-----------------|---------------------------------|--|-------------------|
| JOB NAME: | COSTCO AURORA,CO DEPOT - COSTCO | EQUIPMENT DESIGNATION: | MSB1/MSB2 |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | QED-2 SWITCHBOARD |
| DRAWN BY: | BRADLEY KASIR | DRAWING TYPE: | SCHEDULE |
| ENGR: | BAK | <div>SQUARE D</div> <div>by Schneider Electric</div> | |
| DATE: | JANUARY 14, 2020 | | |
| DRAWING STATUS: | RECORD | DWG# 042671088-188-01 | PG 4 OF 5 REV B |

| REV | DESCRIPTION | | | | | | BY | DATE | B | CHG FROM MTZ TO NW | | | MVN | 06/27/20 | - | ---- | -- | --/--/-- |
|-------------------------------|-------------|-----------------|------------------------------|----------|------------|----|--------------|----------|----------------------|--------------------|-----|-----------------|-------------------------------|----------|---|------|----|----------|
| A | CO REV 15 | | | | | | BAK | 04/28/20 | - | ----- | | | -- | --/--/-- | - | ---- | -- | --/--/-- |
| POWER STYLE QED-2 SWITCHBOARD | | | | | | | | | | | | | | | | | | |
| SECT NO | CKT NO | IMD /GMD CONFIG | DEVICE/FRAME RATING | TRIP AMP | FUSE/ TRIP | #P | DESIGNATION | N/P | LUG/WIRE INFORMATION | | | | ACCESSORIES / NOTES | | | | | |
| | | | | | | | | | QTY | PHASE WIRE RANGE | QTY | NEUT WIRE RANGE | | | | | | |
| 6 | 32 | 4.5 in | JL | 200A | — | 3P | 2H7 | No | 1 | 3/0 — 350 kcmil | 1 | 3/0 — 350kcmil | | | | | | |
| 6 | 33 | 4.5 in | JL | 200A | — | 3P | 2H5 | No | 1 | 3/0 — 350 kcmil | 1 | 3/0 — 350kcmil | | | | | | |
| 6 | 34 | 4.5 in | JL | 200A | — | 3P | GUARD BOOTH | No | 1 | 3/0 — 350 kcmil | 1 | 3/0 — 350kcmil | | | | | | |
| 6 | 35 | 4.5 in | JL | 200A | — | 3P | 2H15 | No | 1 | 3/0 — 350 kcmil | 1 | 3/0 — 350kcmil | | | | | | |
| 6 | 36 | 4.5 in | JL | 200A | — | 3P | 2H3 | No | 1 | 3/0 — 350 kcmil | 1 | 3/0 — 350kcmil | | | | | | |
| 6 | 37 | 4.5 in | JL | 200A | — | 3P | 2H6 | No | 1 | 3/0 — 350 kcmil | 1 | 3/0 — 350kcmil | | | | | | |
| 6 | 38 | 4.5 in | JL | 200A | — | 3P | 2H8 | No | 1 | 3/0 — 350 kcmil | 1 | 3/0 — 350kcmil | | | | | | |
| 6 | 39 | 4.5 in | HL | 100A | — | 3P | PUMP ROOM | No | 1 | #14 — 1/0 AWG | 1 | #14 — 1/0 AWG | | | | | | |
| 7 | 18 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | FUTURE SPACE | No | 2 | 4/0 — 500kcmil | 2 | 4/0 — 500kcmil | | | | | | |
| 7 | 19 | 6 in | LL 600A | 600A | S—LI | 3P | 2H11 | No | 2 | 4/0 — 500kcmil | 2 | 4/0 — 500kcmil | | | | | | |
| 7 | 20 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | FUTURE SPACE | No | 2 | 4/0 — 500kcmil | 2 | 4/0 — 500kcmil | | | | | | |
| 7 | 21 | 9 in | PL 600A Plug B | 600A | S—LI | 3P | 2H14 | No | 2 | 600 kcmil | 2 | 600 kcmil | LK1 | | | | | |
| 7 | 22 | 9 in | PL 600A Plug A | 600A | S—LI | 3P | 2H13 | No | 2 | 600 kcmil | 2 | 600 kcmil | LK1 | | | | | |
| 7 | 23 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | FUTURE SPACE | No | 2 | 4/0 — 500kcmil | 2 | 4/0 — 500kcmil | | | | | | |
| 7 | 24 | 6 in | LL 600A (PS) | (600A) | (LI) | 3P | FUTURE SPACE | No | 2 | 4/0 — 500kcmil | 2 | 4/0 — 500kcmil | | | | | | |
| 7 | 25 | 6 in | LL 600A | 600A | S—LI | 3P | 2H12 | No | 2 | 4/0 — 500kcmil | 2 | 4/0 — 500kcmil | | | | | | |
| 7 | 26 | 4.5 in | JL | 200A | — | 3P | 2H10 | No | 1 | 3/0 — 350 kcmil | 1 | 3/0 — 350kcmil | | | | | | |
| 8 | G2 | FIX | NW-W H3 4000AF/4000AS Plug A | 4000A | P—LSIG | 4P | GEN2 Breaker | No | 12 | 600 kcmil | 12 | 600 kcmil | GF,SDE1,OF4,KEY COM,ERMS | | | | | |
| 9 | — | — | 480kA SPD | — | — | — | — | — | — | — | — | — | SPD | | | | | |
| 9 | M2 | FIX | NW-W H3 4000AF/4000AS Plug A | 4000A | P—LSIG | 4P | MSB2 MAIN | No | 12 | 3/0 — 750 kcmil | 12 | 3/0 — 750 kcmil | GF,SDE1,OF4,KEY PM5K,COM,ERMS | | | | | |

Snip of series rating from Digest

| | | | | | | |
|-----------------|---------|--------------------------------------|---------------------------|-------|--------|--------|
| 277 480Y/277 | 100,000 | EJ, BJ, HJ, JJ | ECB-G3 | 15-30 | 15-30 | 15-20 |
| | | HL, JL, LL | EDB, EGB, EJB | 15-70 | 15-125 | 15-125 |
| | | HL, JL, LL | EDB-EPD, EGB-EPD, EJB-EPD | 15-50 | - | - |
| | | Class J or T (600 V) 400 A Max Fuses | EDB, EGB, EJB | 15-70 | 15-125 | 15-125 |
| | | Class J or T (600 V) 400 A Max Fuses | EDB-EPD, EGB-EPD, EJB-EPD | 15-50 | - | - |
| | 200,000 | HR, JR, LR | EDB, EGB, EJB | 15-70 | 15-125 | 15-125 |
| | | HR, JR, LR | EDB-EPD, EGB-EPD, EJB-EPD | 15-50 | - | - |
| | | HR, JR | ECB-G3 | 15-30 | 15-30 | 15-20 |
| | | Class J or T (600 V) 200 A Max Fuses | EDB, EGB, EJB | 15-70 | 15-125 | 15-125 |
| | | Class J or T (600 V) 200 A Max Fuses | EDB-EPD, EGB-EPD, EJB-EPD | 15-50 | - | - |
| | | Class J or T (600 V) 200 A Max Fuses | ECB-G3 | 15-30 | 15-30 | 15-20 |
| | | | | | | |
| | | | | | | |
| | 18,000 | HG, BG, JG, LG | FDR | 15-70 | 15-100 | 15-100 |

| | | | |
|-----------------|---------------------------------|---|-------------------|
| JOB NAME: | COSTCO AURORA,CO DEPOT - COSTCO | EQUIPMENT DESIGNATION: | MSB1/MSB2 |
| JOB LOCATION: | AURORA CO | EQUIPMENT TYPE: | QED-2 SWITCHBOARD |
| DRAWN BY: | BRADLEY KASIR | DRAWING TYPE: | SCHEDULE |
| ENGR: | BAK |  | |
| DATE: | JANUARY 14, 2020 | | |
| DRAWING STATUS: | RECORD | DWG# 042671088-188-01 | PG 5 OF 5 REV B |

Panelboard Series Ratings

NF and I-Line™ Panelboards

Refer to NFand I-Line Panelboards / Refer to Catalog 2110CT9701



NF and I-Line™ Panelboards

This page contains UL Tested and Certified series combination ratings for panelboards. These ratings apply to either an integral main located in the same enclosure or a remote main located in a separate enclosure.

Table 9.2: NF Series Connected Circuit Breaker Ratings (RMS Symmetrical)

| Maximum System Voltage, AC [17] | Max. Short Circuit Current Rating | Square D™ Brand Integral or Remote Main Circuit Breakers and Remote Main Fuses[18] | Square D™ Brand Branch Circuit Breaker Catalog Designation and Allowable Ampere Ranges | | | |
|---------------------------------|-----------------------------------|--|--|--------|--------|--------|
| | | | Circuit Breaker Abbreviation[19] | 1 Pole | 2 Pole | 3 Pole |
| 120 120/240 240 | 65,000 | EG, BG, HG, JG, LG, LH | EDB | 15–70 | 15–125 | 15–125 |
| | | EG | ECB-G3 | 15–30 | 15–30 | 15–30 |
| | 100,000 | EJ, BJ, HJ, JJ, LJ | EDB, EGB | 15–70 | 15–125 | 15–125 |
| | | EJ, BJ, HJ, JJ | ECB-G3 | 15–30 | 15–30 | 15–30 |
| | 125,000 | HL, JL | EDB, EGB, EJB | 15–70 | 15–125 | 15–125 |
| | | HL, JL | ECB-G3 | 15–30 | 15–30 | 15–30 |
| | 200,000 | HR, JR, LR | EDB, EGB, EJB | 15–70 | 15–125 | 15–125 |
| | | HR, JR | ECB-G3 | 15–30 | 15–30 | 15–30 |
| | | Class J or T (600 V) 200 A Max Fuses | ECB-G3 | 15–30 | 15–30 | 15–30 |
| | | | | | | |
| 277 480Y/277 | 35,000 | EG, BG, HG, JG, LG, LH | EDB | 15–70 | 15–125 | 15–125 |
| | | EG, BG, HG, JG, LG, LH | EDB-EPD | 15–50 | — | — |
| | | EG, BG, HG, JG | ECB-G3 | 15–30 | 15–30 | 15–20 |
| | 65,000 | EJ, BJ, HJ, JJ, LJ | EDB, EPD | 15–70 | 15–125 | 15–125 |
| | | EJ, BJ, HJ, JJ, LJ, LL | EDB-EPD, EGB-EPD | 15–50 | | |
| | | EJ, BJ, HJ, JJ | ECB-G3 | 15–30 | 15–30 | 15–20 |
| | 100,000 | HL, JL, LL | EDB, EGB, EJB | 15–70 | 15–125 | 15–125 |
| | | HL, JL, LL | EDB-EPD, EGB-EPD, EJB-EPD | 15–50 | — | — |
| | | Class J or T (600 V) 400 A Max Fuses | EDB, EGB, EJB | 15–70 | 15–125 | 15–125 |
| | | Class J or T (600 V) 400 A Max Fuses | EDB-EPD, EGB-EPD, EJB-EPD | 15–50 | — | — |
| | 200,000 | HR, JR, LR | EDB, EGB, EJB | 15–70 | 15–125 | 15–125 |
| | | HR, JR, LR | EDB-EPD, EGB-EPD, EJB-EPD | 15–50 | — | — |
| | | HR, JR | ECB-G3 | 15–30 | 15–30 | 15–20 |
| | | Class J or T (600 V) 200 A Max Fuses | EDB, EGB, EJB | 15–70 | 15–125 | 15–125 |
| | | Class J or T (600 V) 200 A Max Fuses | EDB-EPD, EGB-EPD, EJB-EPD | 15–50 | — | — |
| | | Class J or T (600 V) 200 A Max Fuses | ECB-G3 | 15–30 | 15–30 | 15–20 |
| | | Class J or T (600 V) 200 A Max Fuses | EDB, EGB, EJB | 15–70 | 15–125 | 15–125 |
| | | Class J or T (600 V) 200 A Max Fuses | EDB-EPD, EGB-EPD, EJB-EPD | 15–50 | — | — |
| 347 600Y/347 | 18,000 | HG, BG, JG, LG | EDB | 15–70 | 15–100 | 15–100 |
| | 25,000 | EJ, BJ, HJ, JJ, LJ, LH | EDB, EGB | 15–70 | 15–100 | 15–100 |
| | 50,000 | HL, JL, LL | EDB, EGB, EJB | 15–70 | 15–100 | 15–100 |
| | 65,000 | HR, JR | EDB, EGB, EJB | 15–70 | 15–100 | 15–100 |
| | | LR | EJB | 15–70 | 15–100 | 15–100 |
| | 200,000 | Class J or T (600 V) 200 A Max Fuses | EDB, EGB, EJB | 15–70 | 15–100 | 15–100 |

Table 9.3: I-Line Series Connected Circuit Breaker Ratings (RMS Symmetrical)

| Maximum System Voltage AC [20] | Maximum Short Circuit Current Rating | Square D Brand Integral or Remote 2- or 3-Pole Main Circuit Breaker [21] | Square D Brand Branch Circuit Breaker | |
|--------------------------------|--------------------------------------|--|---------------------------------------|---------|
| | | | Catalog Designation | Poles |
| 120 | 42,000 | MG | FY | 1 |
| | 65,000 | QG, LH | FA, FD | |
| | | QG, BG6, HG, JG, LG, MG, PG | BD6 (60 A Max.) | |
| | 100,000 | FJ, QJ | FD | |
| | | QJ, LC | FA | |
| | | LJ | FH | |
| | | QJ, BJ, HJ, JJ, LJ, MJ, PJ | BD6, BG6 (60 A Max.) | |
| | 125,000 | HL, JL, LL | BD6, BG6, BJ (60 A Max.) | |
| | 200,000 | LR | FH, FY | |
| | | HR, JR | BD6, BG6, BJ (60 A Max.) | |
| 208Y/120 | 65,000 | QG, BG6, HG, JG, LG, MG, PG | BD6 | 2, 3 |
| | 100,000 | QJ | FA, FD | |
| | | QJ, BJ, HJ, JJ, LJ, MJ, PJ | BD6, BG6 | |
| | | QJ, PH, PJ, RJ | QD, QG | |
| 240 | 35,000 | MG | FA | 1 |
| | 42,000 | KA | FD | 1, 2, 3 |
| | | LA, MA | HD, JD, QD | 2, 3 |
| | 50,000 | MG | FA | |
| | | MG | FA (25 A Max.) | 1 |
| | 65,000 | HG, JG | FA, HD | 2, 3 |
| | | JG | JD, QD | |
| | | QG | FA, FD, QD | |
| | | QG, BG6, HG, JG, LG, MG, PG | BD6 | |
| | | LH, MH, PA, PG, RG | HD, JD, QD | |
| | | FG, FH, MH, MX, PJ | FD | 1, 2, 3 |
| | | FC, KC, KH, LC, LH | FD, FG | |
| | | LH | FA | |
| | | LH | LA | 2, 3 |
| | | MG | HD, JD, KA | |
| | | DG | FH, HD, JD, KA, LA, MA | |
| | | LG | HD, JD, KA, LA, MA | |
| | | LG | LD | 3 |

[17] Short circuit tests are conducted at 100–105% of the maximum rated voltage of the panelboard.
[18] Please consult the NF/NFOM Panelboards Information Manual (80043-741-03) for additional information, including series ratings with obsolete circuit breakers.
[19] EDB-EPD, EGB-EPD & EJB-EPD suitable for 480Y/277Vac or 277Vac ONLY.
[20] For indicated circuit breakers rated less than this maximum voltage. The indicated short circuit current rating also applies, but at the voltage rating of the circuit breaker.
[21] LD, LG, LJ, and LL are only available in 3-pole configurations.

The MDP Breakers provided are rated to 100Kaic, We are using a higher rated feeder breaker than is called for in the Record Drawing Panel Schedule. The Series Rating Table is highlighted above with MDP Breakers used.