



MAVERICK POWER ELECTRICAL DRAWING

MP PROJECT #T SERIES
ATS



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951 HARRY MCKILLOP BLVD,
MCKINNEY, TX 75069

PROJECT
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ATS

PAGE TITLE

COVER PAGE

SECTION
SECTION 1

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E-TS-ATS-A

PAGE

TABLE OF CONTENTS
COVER PAGE
TABLE OF CONTENTS
ELEVATION
ONE LINE DIAGRAM ONE PHASE NO NEUTRAL
ONE LINE DIAGRAM ONE PHASE SOLID NEUTRAL
ONE LINE DIAGRAM ONE PHASE AND NEUTRAL
ONE LINE DIAGRAM THREE PHASES NO NEUTRAL
ONE LINE DIAGRAM THREE PHASES SOLID NEUTRAL
ONE LINE DIAGRAM THREE PHASES AND NEUTRAL
SURGE PROTECTIVE DEVICE
POWER METERING
HEATER
CONTROL POWER
ATS CONTROL
DEVICE LAYOUT



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PROJECT
T SERIES

ATS

PAGE TITLE

TABLE OF CONTENTS

SECTION
SECTION 1

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REVISION
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DATE
01/14/2026

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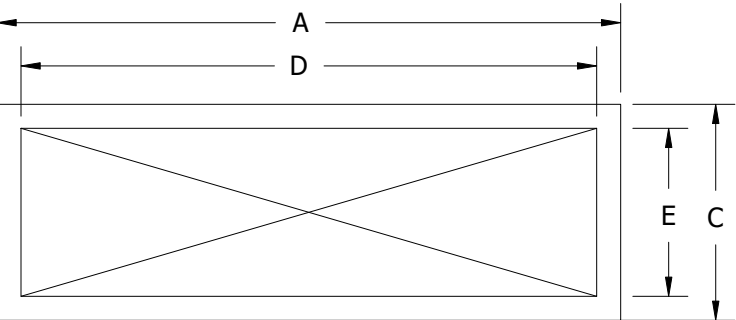
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PAGE

TABLE 1 - STANDARD SIZE

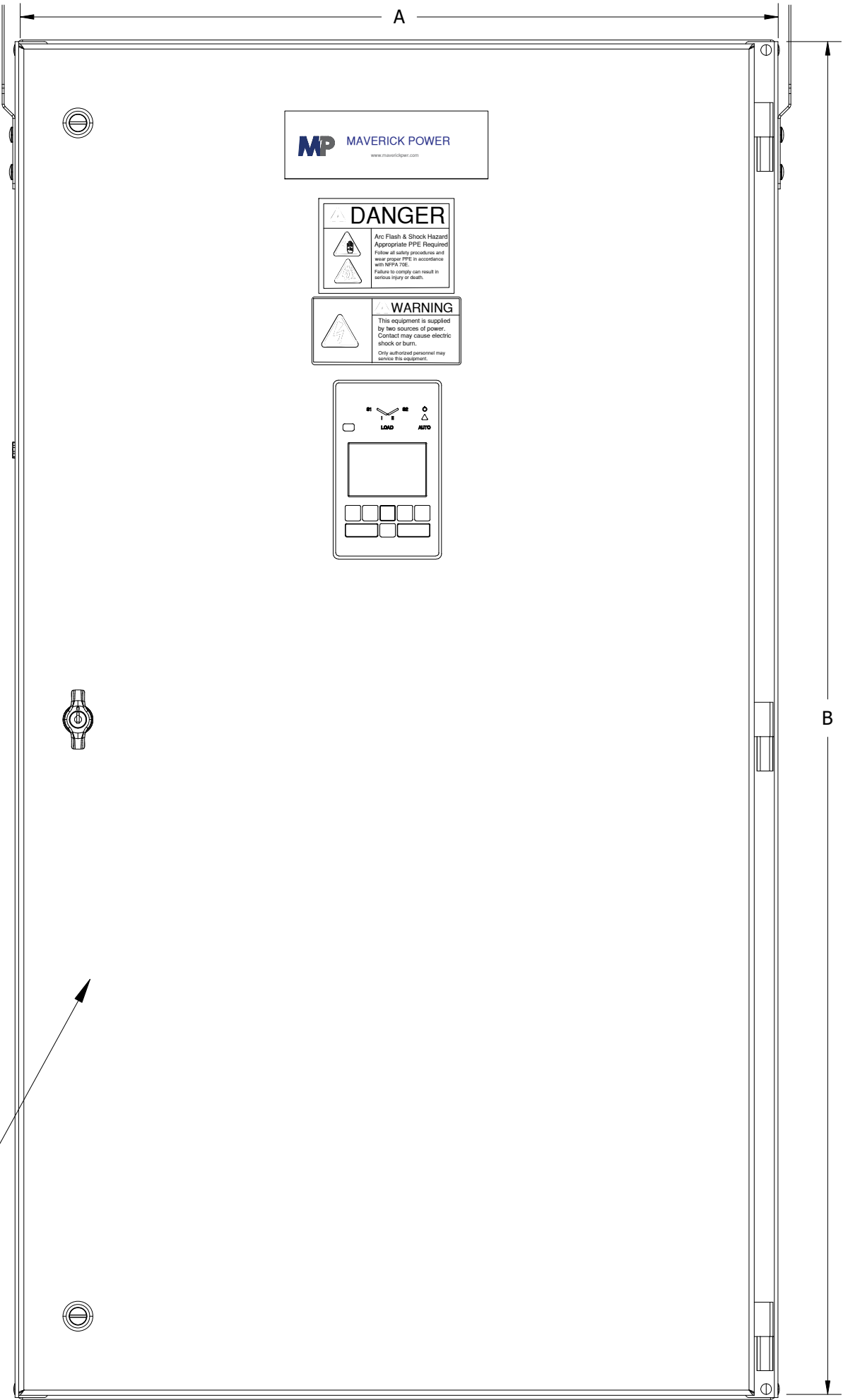
ENCLOSURE SIZE					CABLE ENTRY		
SYSTEM RATING	WIDTH (INCH)	HEIGHT (INCH)	DEPTH (INCH)	EST WEIGHT (LB)	WIDTH (INCH)	DEPTH (INCH)	LOCATION
	A	B	C		D	E	
30A / 2P,3P&4P	24	36	12	125	20	8	T OR B
60A / 2P,3P&4P	24	36	12	125	20	8	T OR B
100A / 2P,3P&4P	24	36	12	125	20	8	T OR B
125A / 2P,3P&4P	24	36	12	125	20	8	T OR B
160A / 2P,3P&4P	24	36	12	125	20	8	T OR B
200A / 2P,3P&4P	24	36	12	125	20	8	T OR B
260A / 2P&3P	24	46	14	200	20	8	T OR B
260A / 4P	28	50	20	200	24	16	T OR B
400A / 2P&3P	24	46	14	400	20	8	T OR B
400A / 4P	28	50	20	350	24	16	T OR B
600A / 2P,3P&4P	28	54	20	350	24	16	T OR B
800A / 3P&4P	40	70	20	625	24	16	T OR B
1000A / 3P&4P	40	70	20	625	24	16	T OR B
1200A / 3P&4P	40	70	20	625	24	16	T OR B



CABLE ENTRY REFERENCE

- NOTES:
1. ENCLOSURE, CABLE ENTRY, DOOR AND LAYOUT ARE FOR REFERENCE ONLY AND CAN BE DIFFERENT AND MODIFIED BASED ON PROJECT SELECTIONS FROM CUSTOMER, REFER TO ASSEMBLY DRAWINGS FOR ACCURATE ELEVATION.
 2. ALL DIMENSIONS SHALL BE VERIFIED IN ACCORDANCE WITH SYSTEM CAPACITY AND CUSTOMER SELECTIONS, UNLESS OTHERWISE NOTED.
 3. 3R ENCLOSURE CAN ONLY HAVE CABLE ENTRY AT BOTTOM.

OUTSIDE OF DOOR



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PAGE TITLE
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SECTION
SECTION 1

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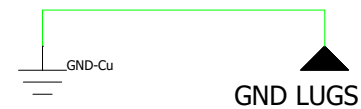
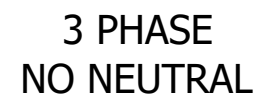
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PAGE

PAGE

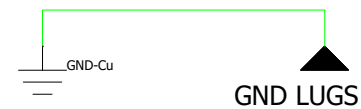
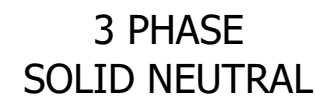
☐ INHIBIT TRANSFER SWITCH (IN COMMUNICATIONS – NOT ON DOOR)



CABLE SIZE ARE FOR REFERENCE ONLY AND TO BE MODIFIED PER PROJECT BASED ON CUSTOMER SELECTIONS.

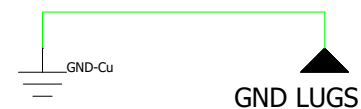
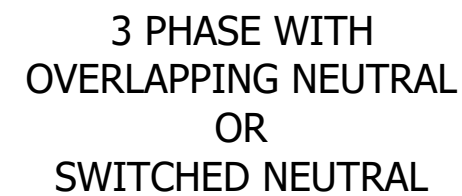


CABLE SIZE ARE FOR REFERENCE ONLY AND TO BE MODIFIED PER PROJECT BASED ON CUSTOMER SELECTIONS.



☐ INHIBIT TRANSFER SWITCH (IN COMMUNICATIONS – NOT ON DOOR)

CABLE SIZE ARE FOR REFERENCE ONLY AND TO BE MODIFIED PER PROJECT BASED ON CUSTOMER SELECTIONS.



NOTES:

- * THIS DESIGN IS BASED ON A SPECIFIC SURGE PROTECTIVE DEVICE (SPD) AND IS FOR REFERENCE PURPOSES ONLY.
- * SPD SHALL BE CONNECTED TO ATS SOURCE 1, ATS SOURCE 2, OR ATS LOAD, AS SPECIFIED BY CUSTOMER.
- * SPD RATINGS SHALL BE APPROPRIATELY SELECTED BASED ON THE SYSTEM CAPACITY.
- * WIRE AND CABLE SIZES SHALL BE MODIFIED AS REQUIRED BASED ON SPD, FUSE, AND PROJECT RATINGS, UNLESS OTHERWISE NOTED.

TABLE 1: SPD PART NUMBERS

RATING	75KA	150KA	225KA
277V	15-00468	15-00310	15-00731
480V	15-00469	15-00730	15-00732



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PROJECT
T SERIES

ATS

PAGE TITLE

SURGE PROTECTIVE DEVICE

SECTION
SECTION 1

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REFERENCE

REVISION
A

DATE
01/14/2026

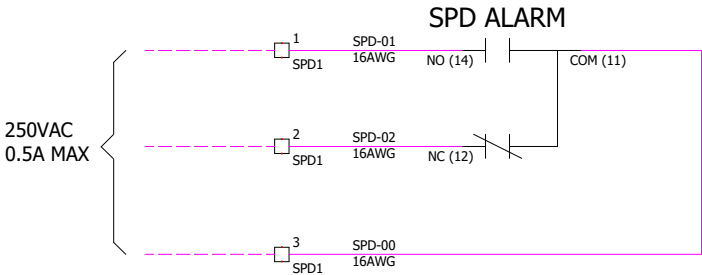
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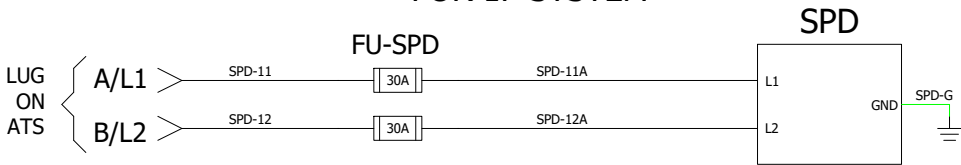
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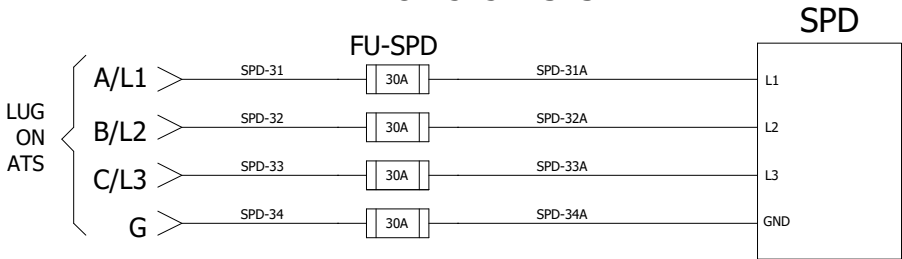
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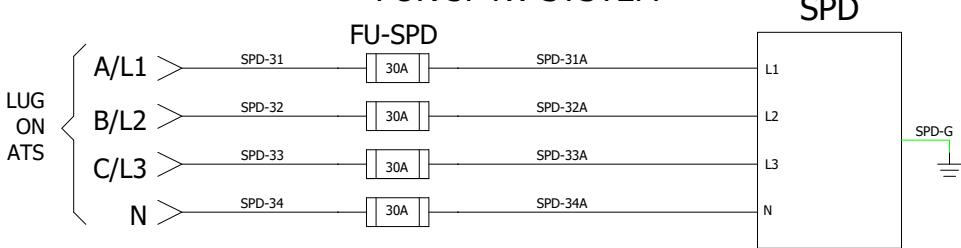
OPTION 1
FOR 1P SYSTEM



OPTION 2
FOR 3P3W SYSTEM



OPTION 3
FOR 3P4W SYSTEM



NOTES:

- * THIS DESIGN IS BASED ON A SPECIFIC POWER QUALITY METER (PQM) AND IS PROVIDED FOR REFERENCE PURPOSES ONLY. THE DESIGN SHALL BE MODIFIED AS REQUIRED IF A DIFFERENT PQM IS SELECTED BY THE CUSTOMER.
- * PQM SHALL BE CONNECTED TO LOAD SIDE OF ATS
- * WIRE AND CABLE SIZES SHALL BE MODIFIED AS REQUIRED BASED ON PS, FUSE, AND PROJECT RATINGS, UNLESS OTHERWISE NOTED.

TABLE 1: PQM PN

CATEGORY	EPICOR PN
PQM	21-00040

TABLE 2: CT RATIO AND PN

SYSTEM RATING	CT RATIO	EPICOR PN	NOTE
30A	50:5	15-00723	
60A, 100A	100:5	15-00724	150:5 MAY BE USED IF OVERLOAD/HEADROOM
125A	150:5	15-00725	
160A, 200A	200:5	15-00726	
260A	300:5	15-00727	400:5 MAY BE USED IF OVERLOAD/HEADROOM
400A	400:5	15-00728	500:5 MAY BE USED IF OVERLOAD/HEADROOM
600A	600:5	15-00729	800:5 MAY BE USED IF OVERLOAD/HEADROOM
800A	800:5	15-00730	1000:5 MAY BE USED IF OVERLOAD/HEADROOM
1000A	1000:5	15-00731	1200:5 MAY BE USED IF OVERLOAD/HEADROOM
1200A	1200:5	15-00732	1500:5 MAY BE USED IF OVERLOAD/HEADROOM



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PROJECT
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ATS

PAGE TITLE

POWER METERING

SECTION
SECTION 1

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REFERENCE

REVISION
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DATE
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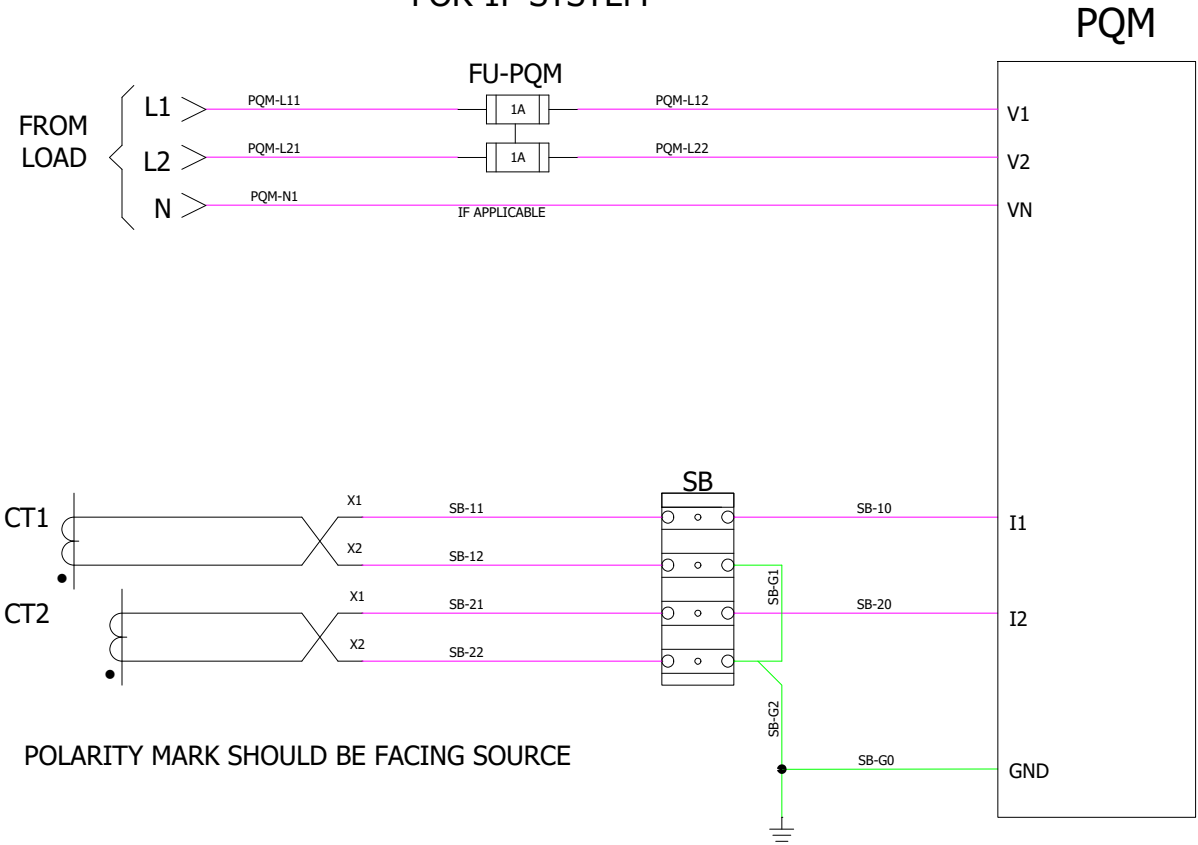
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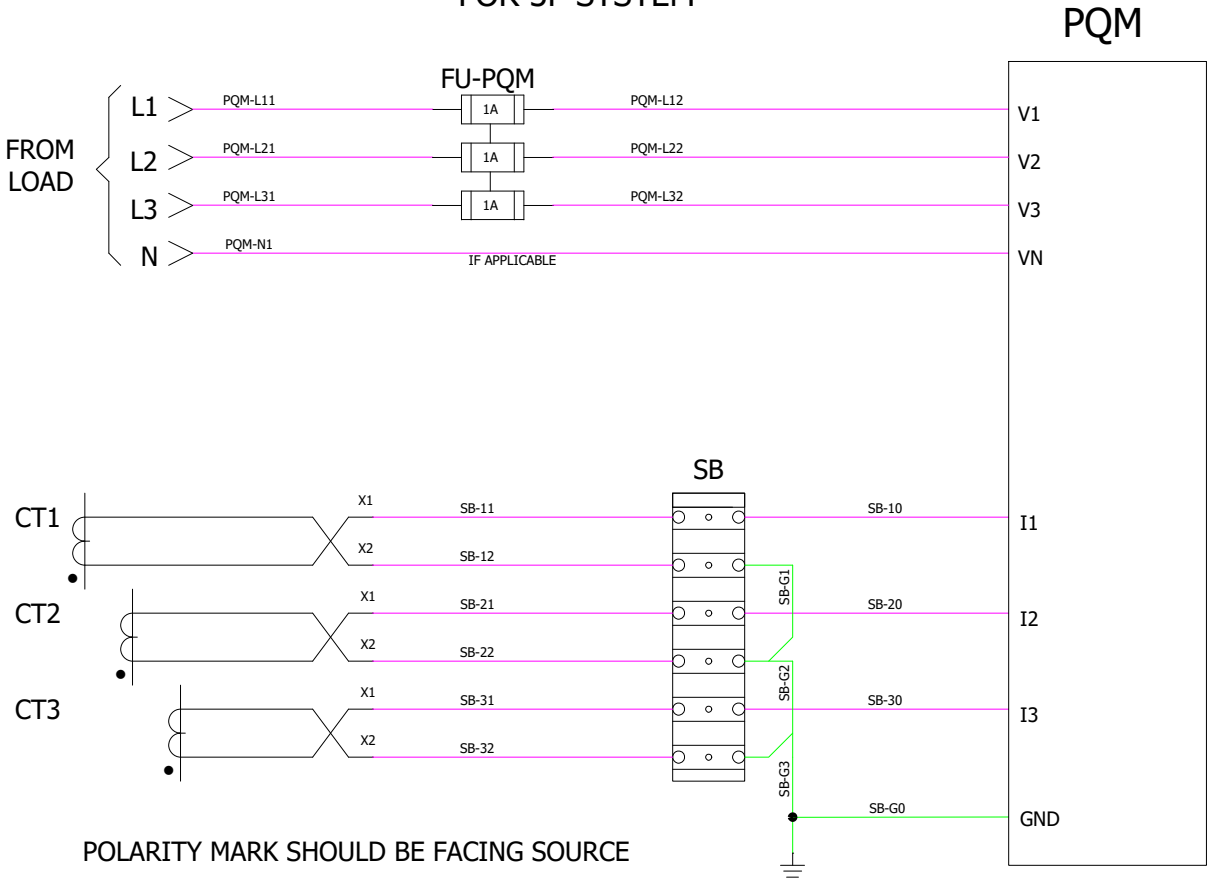
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PAGE

OPTION 1
FOR 1P SYSTEM



OPTION 2
FOR 3P SYSTEM



NOTES:

- * THIS DESIGN IS BASED ON A SPECIFIC HEATER AND IS PROVIDED FOR REFERENCE PURPOSES ONLY.
- * HEATER SHALL BE CONNECTED TO A 250VAC OR 125VAC POWER SOURCE PROVIDED BY CUSTOMER.
- * WIRE AND CABLE SIZES SHALL BE MODIFIED AS REQUIRED BASED ON POWER SOURCE AND PROJECT RATINGS, UNLESS OTHERWISE NOTED.

TABLE 1: HEATER PN

CATEGORY	EPICOR PN	POWER SOURCE	CB RATING
HEATER	15-00528	125VAC	2A
HEATER	15-00529	250VAC	1A



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PROJECT
T SERIES

ATS

PAGE TITLE

HEATER

SECTION
SECTION 1

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REFERENCE

REVISION
A

DATE
01/14/2026

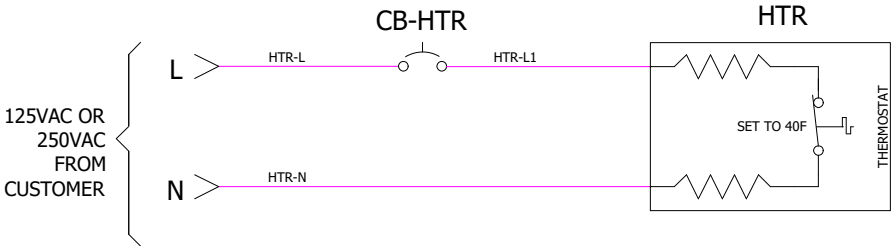
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PAGE



NOTES:

- * THIS DESIGN IS BASED ON A SPECFCIC POWER SUPPLY WITH BUFFER MODULE AND UPS, AND IS PROVIDED FOR REFERENCE PURPOSES ONLY.
- * POWER SUPPLY SHALL BE CONNECTED TO ATS SOURCE 1 OR ATS SOURCE 2 AS SPECIFIED BY CUSTOMER.
- * FUSE RATINGS SHALL BE APPROPRIATELY SELECTED BASED ON THE SYSTEM CAPACITY.
- * WIRE AND CABLE SIZES SHALL BE MODIFIED AS REQUIRED BASED ON PS, FUSE, AND PROJECT RATINGS, UNLESS OTHERWISE NOTED.

TABLE 1: REFERENCE PART NUMBERS

	CATEGORY	EPICOR PN
OPTION 1	POWER SUPPLY	13-00531
	BUFFER MODLE	15-00370
OPTION 2	POWER SUPPLY	13-00531
	CAPACITOR-BASED UPS	13-00544



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PROJECT
T SERIES
ATS

PAGE TITLE
CONTROL POWER

SECTION
SECTION 1

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DATE
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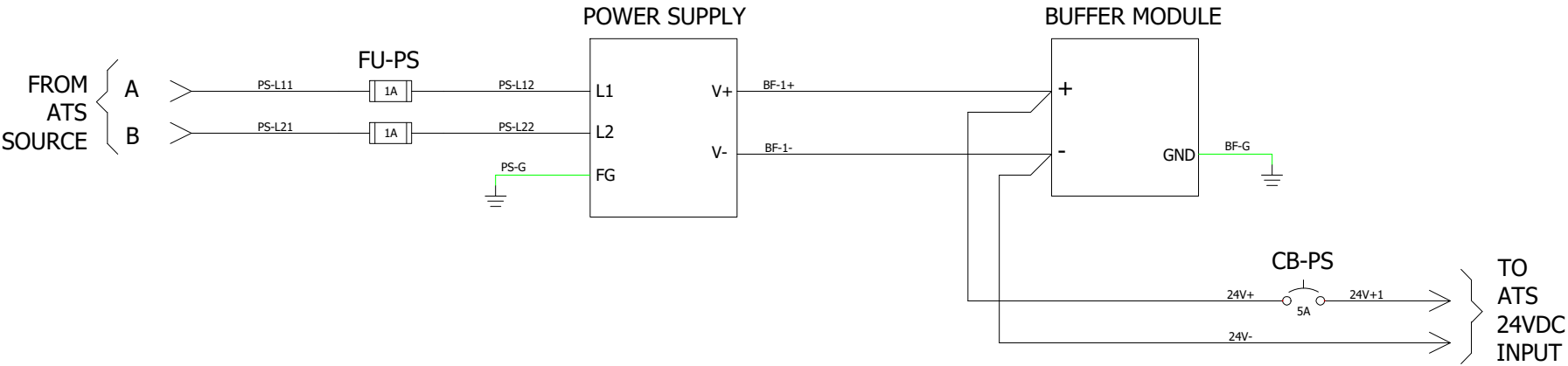
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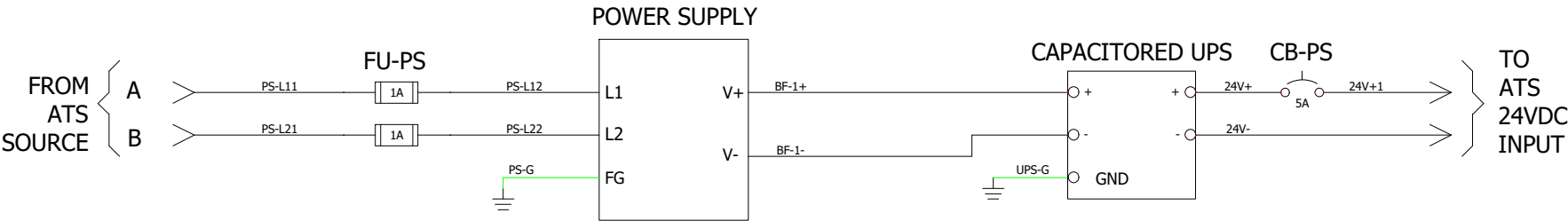
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PAGE

OPTION 1
(10S) RIDE THROUGH



OPTION 2
(5M) RIDE THROUGH





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PROJECT
T SERIES
ATS

PAGE TITLE
ATS CONTROL

SECTION
SECTION 1

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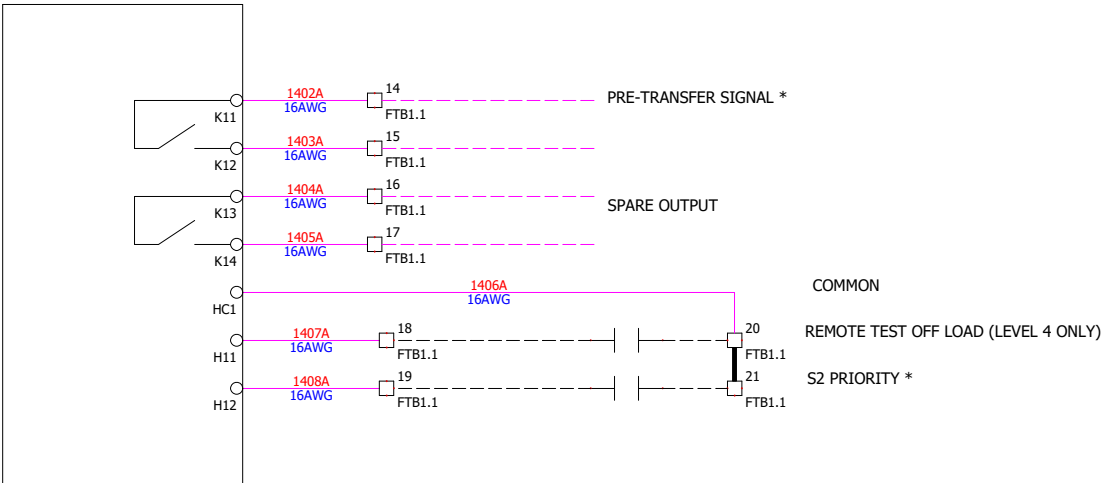
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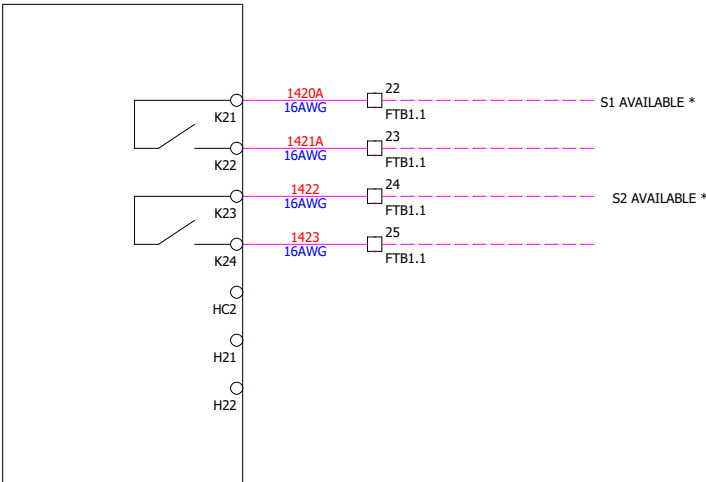
DRAWING
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PAGE

2K1-OX



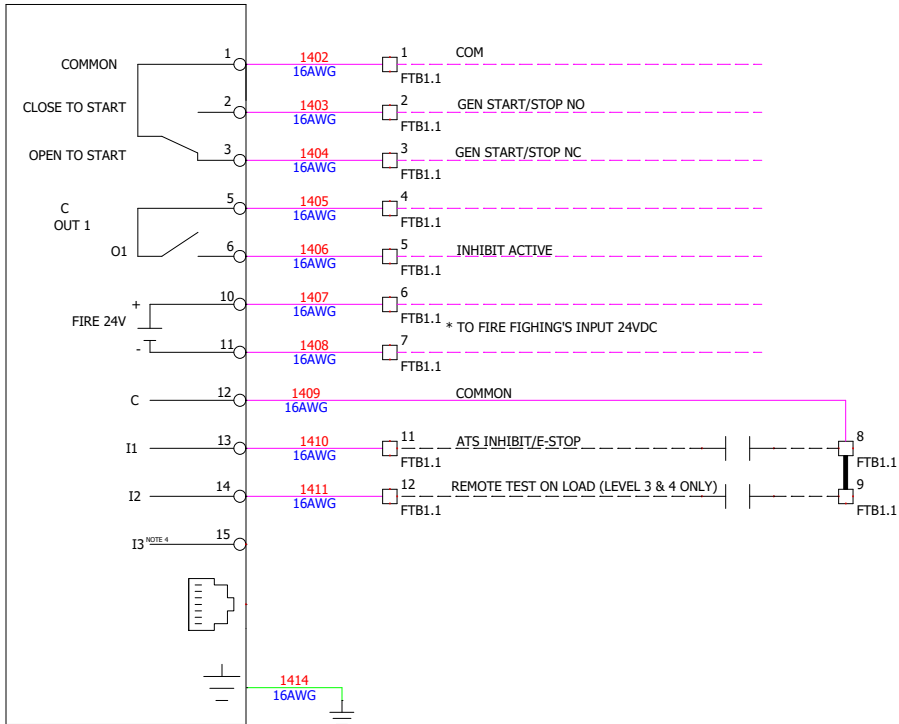
2K2-OX



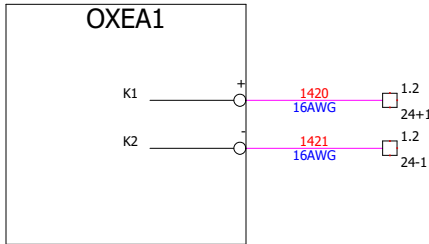
NOTES:

1. "-----" INDICATES WIRING TO BE INSTALLED IN THE FIELD.
2. ITEMS MARKED WITH "*" TO BE CONFIGURED IN SOFTWARE.
3. OA1G10 AND OA3G01 TO BE INSTALLED ON THE SIDE OF ATS, PER INSTRUCTION MANUAL.
4. I3 IS AVAILABLE ONLY IN LEVEL 4 ATS CONTROLLER.

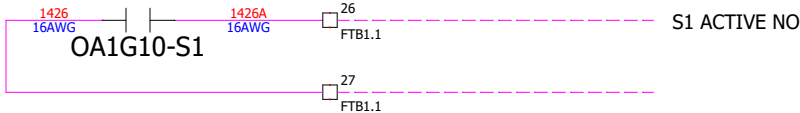
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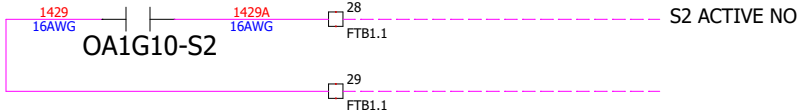
OXEA1



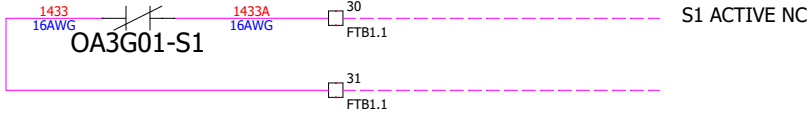
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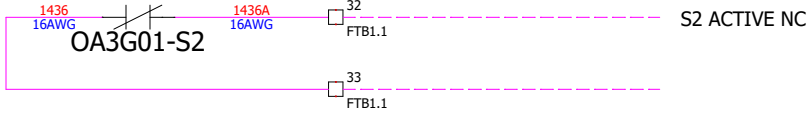
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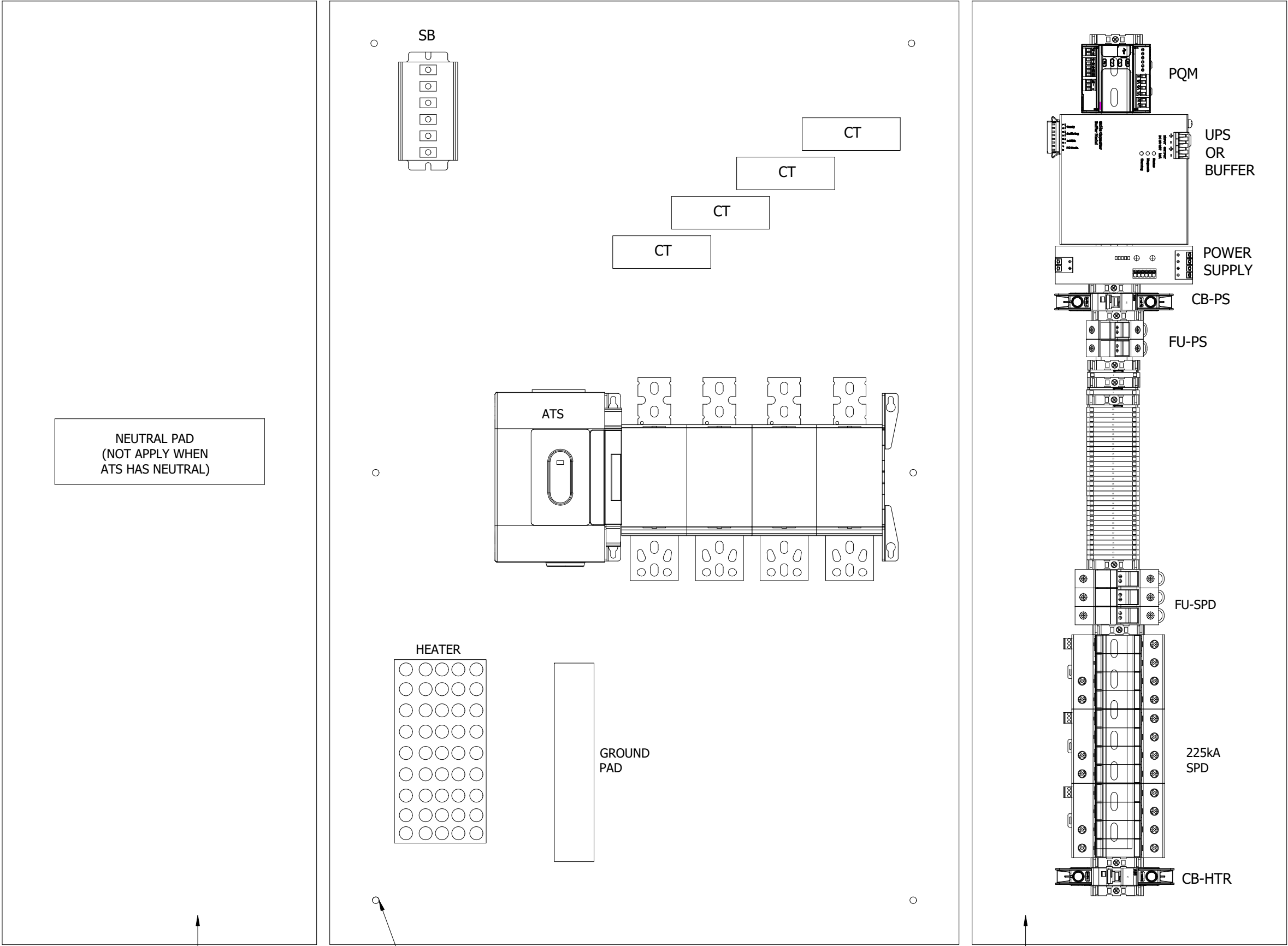


ATS

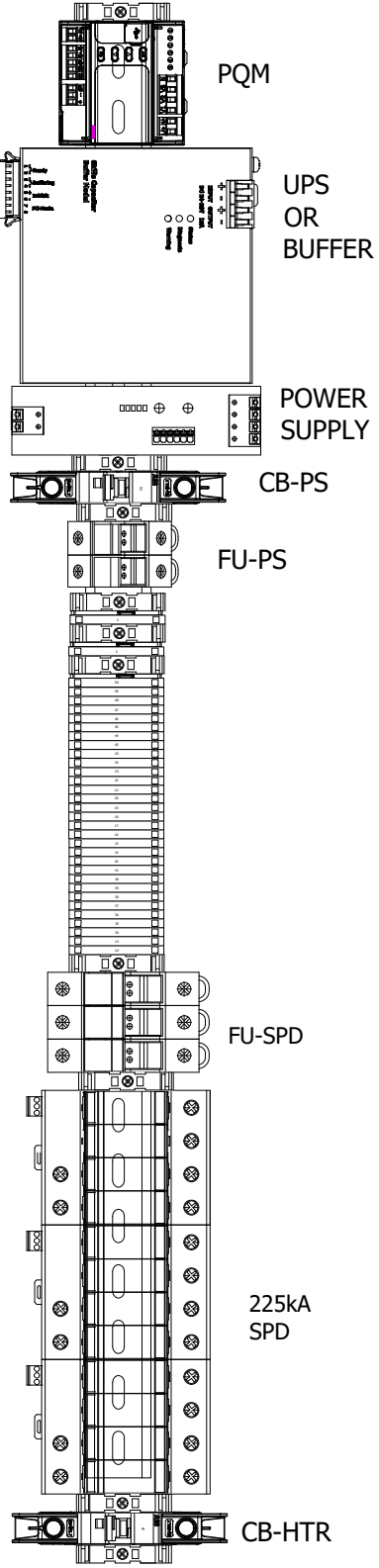
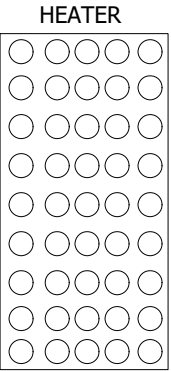
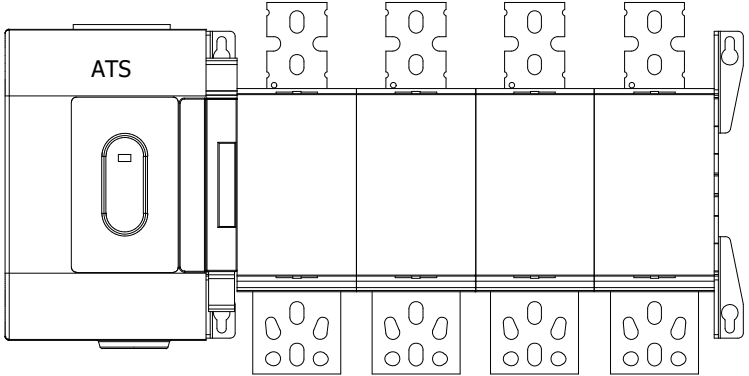
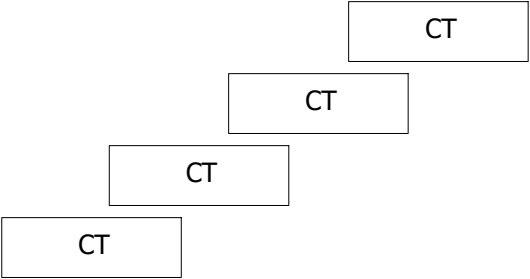
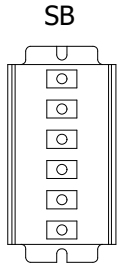


ATS





NEUTRAL PAD
(NOT APPLY WHEN
ATS HAS NEUTRAL)



NOTE:
THE LAYOUT OF ELECTRICAL COMPONENTS
IS TYPICAL AND FOR REFERENCE ONLY AND SHALL
BE MODIFIED AS REQUIRED AS REQUIRED BASED
ON RATING AND OPTIONS SELECTED.



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