

REV. #	DATE	BY	REVISION DESCRIPTION	VOLTAGE	CERTIFICATION	UL, S.E. RATED	DRAWN DATE	DRAWN BY	CHECK BY	JOB NAME
-	-	-	-	-	-	-	1/13/2016	WAS	ABF	STATES MANUFACTURING
-	-	-	-	-	-	-	-	-	-	UL 1008 ATS FILE
-	-	-	-	-	-	-	-	-	-	MINNEAPOLIS, MN
-	-	-	-	-	-	-	-	-	-	ENGINEER
-	-	-	-	-	-	-	-	-	-	CONTRACTOR
-	-	-	-	-	-	-	-	-	-	DISTRIBUTOR
-	-	-	-	-	-	-	-	-	-	SHEET TITLE
-	-	-	-	-	-	-	-	-	-	ATS-3-X-X-X-X
-	-	-	-	-	-	-	-	-	-	600VAC MAX, 3PH, 4W, 3000A, NW
-	-	-	-	-	-	-	-	-	-	ELEVATION VIEWS

MISCELLANEOUS NOTES	CONSTRUCTION NOTES
	VOLTAGE
	PHASE
	WIRE
	FREQUENCY
	S.C. RATING
	PHASE BUS
	NEUTRAL BUS
	BUS MATERIAL
	GND. BUS
	CERTIFICATION
	ENCL. TYPE
	ENCL. MATERIAL
	ENCL. PAINT
	CONTROL WIRE TYPE
	PT/CT WIRE SIZE
	CONTROL WIRE SIZE
	WIRE LABELS
	EXT. LABELS
	UL, S.E. RATED
	TYPE 1
	12 GA. C.R.S.
	ANSI 61
	SIS
	14-12 AWG
	16-14 AWG
	CLIP ON
	WHITE WITH BLACK LETTERS

**STATES MANUFACTURING**

SERIAL NUMBER: -  
 DRAWING TYPE: EL  
 SHEET: 1

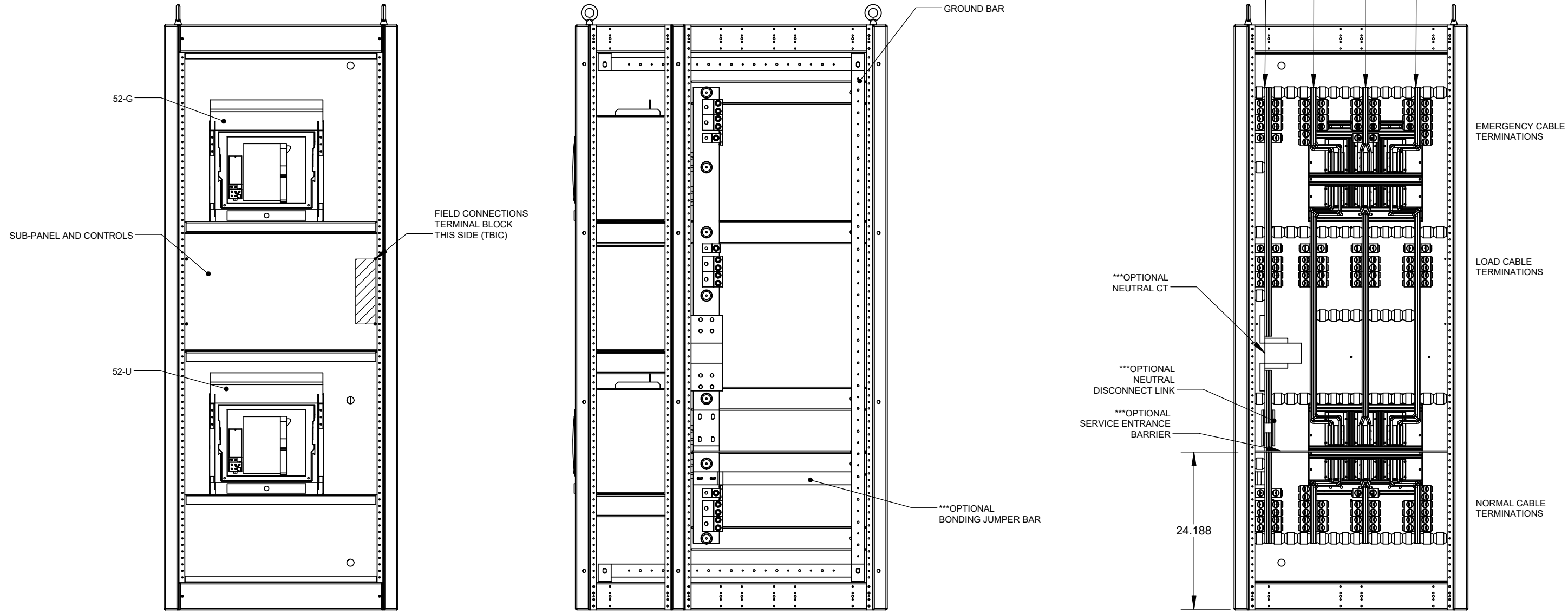
ORDER NUMBER: -  
 SCALE: NA

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FRONT ELEVATION VIEW

RIGHT ELEVATION VIEW

REAR ELEVATION VIEW



MISCELLANEOUS NOTES

REV. #	DATE	BY	REVISION DESCRIPTION
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

CONSTRUCTION NOTES	VOLTAGE	CERTIFICATION
PHASE	3 PH	UL, S.E. RATED
WIRE	4 W	ENCL. TYPE TYPE 1
FREQUENCY	60 HZ	ENCL. MATERIAL 12 GA. C.R.S.
S.C. RATING	100KAIC	ENCL. PAINT ANSI 61
PHASE BUS	3000A	CONTROL WIRE TYPE SIS
NEUTRAL BUS	3000A	PT/CT WIRE SIZE 14-12 AWG
BUS MATERIAL	COPPER	CONTROL WIRE SIZE 16-14 AWG
GND. BUS	(1) 1/4" X 2"	WIRE LABELS CLIP ON
		EXT. LABELS WHITE WITH BLACK LETTERS

DRAWN DATE	DRAWN BY	CHECK BY
1/13/2016	WAS	ABF
ENGINEER		
CONTRACTOR		
DISTRIBUTOR		

JOB NAME	SHEET TITLE
STATES MANUFACTURING UL 1008 ATS FILE MINNEAPOLIS, MN	ATS-3-X-X-X-X 600VAC MAX, 3PH, 4W, 3000A, NW ELEVATION VIEWS

**STATES MANUFACTURING**

SERIAL NUMBER SE-14237F	DRAWING TYPE EL	SHEET 2
ORDER NUMBER 0067193-1-1	SCALE NA	

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H  
G  
F  
E  
D  
C  
B  
A

H  
G  
F  
E  
D  
C  
B  
A

**GENERAL CONSTRUCTION NOTES:**

1. ENCLOSURE TYPE 1, FREE STANDING, 12 GA. STEEL.
2. FRONT ACCESS DOOR HAS TWO, QUARTER-TURN, LOCKABLE FASTENERS.
3. ALL REMOVABLE ACCESS HARDWARE TO BE 1/4-20 THREADED FASTENERS.
4. FRONT AND REAR ACCESS REQUIRED. MINIMUM 36" CLEARANCE RECOMMENDED FRONT AND BACK.
5. SWITCH SHALL SHIP AS COMPLETED ASSEMBLY. LIFTING EYES PROVIDED FOR OVERHEAD LIFTING MEANS.
6. EXTERIOR PAINT FINISH STANDARD: ANSI 61 GRAY, SEMI-GLOSS, ELECTROSTATIC POWDERCOTING.
7. ALL BUS BAR IS SILVER WASHED COPPER, RATED 1000A PER SQ. IN. DENSITY.
8. A FULLY RATED SOLID NEUTRAL BAR IS PROVIDED.

**CABLING NOTES:**

1. ALL PHASES AND NEUTRAL PROVIDED WITH MECHANICAL (SCREW TYPE) LUGS.
  - a. LUG MATERIAL: 6061-T6 ALUMINUM ALLOY WITH TIN PLATED FINISH.
  - b. SCREW MATERIAL: 6061-T6 ALUMINUM ALLOY WITH TIN PLATED FINISH.
  - c. UL LISTED, CSA CERTIFIED, ROHS COMPLIANT.
  - d. STANDARD WIRE RANGE: 600 KMCIL – 4 AWG.
  - e. FLEX WIRE RANGE: 444 KMCIL – 2 AWG.
  - f. CU9AL RATED.
  - g. LUG TIGHTENING TORQUE PER UL 486B: 19 FT-LBS.
  - h. SUITABLE WIRE BENDING SPACE PROVIDED.

**CIRCUIT BREAKER: ITEM 52-U:**

1. SQUARE-D TYPE NW.
  - a. 100% RATED. ELECTRICIALLY OPERATED, DRAWOUT.
  - b. LSI TYPE TRIP UNIT WITH ADJUSTABLE SETPOINTS.
  - c. FRAME RATING:
  - d. PLUG RATING:

**CIRCUIT BREAKER: ITEM 52-G:**

1. SQUARE-D TYPE NW.
  - a. 100% RATED. ELECTRICIALLY OPERATED, DRAWOUT.
  - b. LSI TYPE TRIP UNIT WITH ADJUSTABLE SETPOINTS.
  - c. FRAME RATING:
  - d. PLUG RATING:

**Timer Settings:**

1. NORMAL SOURCE FAILURE TO ENGINE START
  - a. DEFAULT VALUE: 1 SECOND
2. TRANSFER DELAY TO EMERGENCY SOURCE (UPON SOURCE AVAILABLE)
  - a. DEFAULT VALUE: 0 SECONDS
3. TRANSFER DELAY RETURN TO NORMAL SOURCE (UPON SOURCE AVAILABLE)
  - a. DEFAULT VALUE: 30 MINUTES
4. TRANSFER RETURN TO NORMAL SOURCE (SOURCE AVAILABLE, EMERGENCY FAILED)
  - a. DEFAULT VALUE: 0 SECONDS
5. ENGINE COOLDOWN
  - a. DEFAULT VALUE: 5 MINUTES
6. OPEN TRANSITION/DELAYED TRANSFER
  - a. DEFAULT VALUE: 3 SECONDS

**TRANSFER TIMER SETTINGS:**

1. LOAD BREAK TRANSFER MODE – WHEN REQUIRED NO PRALLEL OPERATIONS WILL OCCUR. ELECTRICALLY CONTROLLED BY EASYGEN
  - a. DEFAULT TRANSFER DELAY: 3 SECONDS
2. CLOSED TRANSITION TRANSFER MODE
  - a. MAX TIME: 100ms
3. SOFT-LOAD TRANSFER MODE:
  - a. DEFAULT MAX PARALLEL TIME: 120 SECONDS.

**ADJUSTABLE NORMAL SOURCE PROTECTIVE SETTINGS:**

1. UNDERVOLTAGE PICKUP LEVEL
  - a. DEFAULT VALUE: 90%
2. UNDERVOLTAGE DROUPOUT LEVEL
  - a. DEFAULT VALUE: 95%
3. OVERVOLTAGE PICKUP LEVEL
  - a. DEFAULT VALUE: 110%
4. OVERVOLTAGE DROPOUT LEVEL
  - a. DEFAULT VALUE: 105%
5. UNDER FREQUENCY PICKUP LEVEL
  - a. DEFAULT VALUE: 95%
6. UNDER FREQUENCY DROUPOUT LEVEL
  - a. DEFAULT VALUE: 98%
7. OVER FREQUENCY PICKUP LEVEL
  - a. DEFAULT VALUE: 105%
8. OVER FREQUENCY DROPOUT LEVEL
  - a. DEFAULT VALUE: 102%

**ADJUSTABLE EMERGENCY SOURCE PROTECTIVE SETTINGS:**

1. UNDERVOLTAGE PICKUP LEVEL
  - a. DEFAULT VALUE: 90%
2. UNDERVOLTAGE DROUPOUT LEVEL
  - a. DEFAULT VALUE: 95%
3. OVERVOLTAGE PICKUP LEVEL
  - a. DEFAULT VALUE: 110%
4. OVERVOLTAGE DROPOUT LEVEL
  - a. DEFAULT VALUE: 105%
5. UNDER FREQUENCY PICKUP LEVEL
  - a. DEFAULT VALUE: 95%
6. UNDER FREQUENCY DROUPOUT LEVEL
  - a. DEFAULT VALUE: 98%
7. OVER FREQUENCY PICKUP LEVEL
  - a. DEFAULT VALUE: 105%
8. OVER FREQUENCY DROPOUT LEVEL
  - a. DEFAULT VALUE: 102%

MISCELLANEOUS NOTES	REV. #	DATE	BY	REVISION DESCRIPTION	VOLTAGE	CERTIFICATION	UL, S.E. RATED	DRAWN DATE	DRAWN BY	CHECK BY	JOB NAME	SERIAL NUMBER		DRAWING TYPE	SHEET
	-	-	-	-	PHASE	ENCL. TYPE	TYPE 1	1/13/2016	WAS	ABF	STATES MANUFACTURING UL 1008 ATS FILE MINNEAPOLIS, MN	SE-14237F	EL	3	
	-	-	-	-	WIRE	ENCL. MATERIAL	12 GA. C.R.S.	ENGINEER			STATES MANUFACTURING CORP STANDARD SETTINGS AND CONSTRUCTION NOTES	ORDER NUMBER	SCALE		
	-	-	-	-	FREQUENCY	ENCL. PAINT	ANSI 61	CONTRACTOR				0067193-1-1	NA		
	-	-	-	-	S.C. RATING	CONTROL WIRE TYPE	SIS	DISTRIBUTOR			THIS DOCUMENT IS THE PROPERTY OF STATES MANUFACTURING IT CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION WHICH MUST NOT BE DUPLICATED, USED OR DISCLOSED OTHER THAN AS EXPRESSLY AUTHORIZED BY STATES MANUFACTURING LOCATED IN MINNEAPOLIS, MINNESOTA.				
	-	-	-	-	PHASE BUS	PT/CT WIRE SIZE	14-12 AWG								
	-	-	-	-	NEUTRAL BUS	CONTROL WIRE SIZE	16-14 AWG								
	-	-	-	-	BUS MATERIAL	WIRE LABELS	CLIP ON								
	-	-	-	-	GND. BUS	EXT. LABELS	WHITE WITH BLACK LETTERS								

