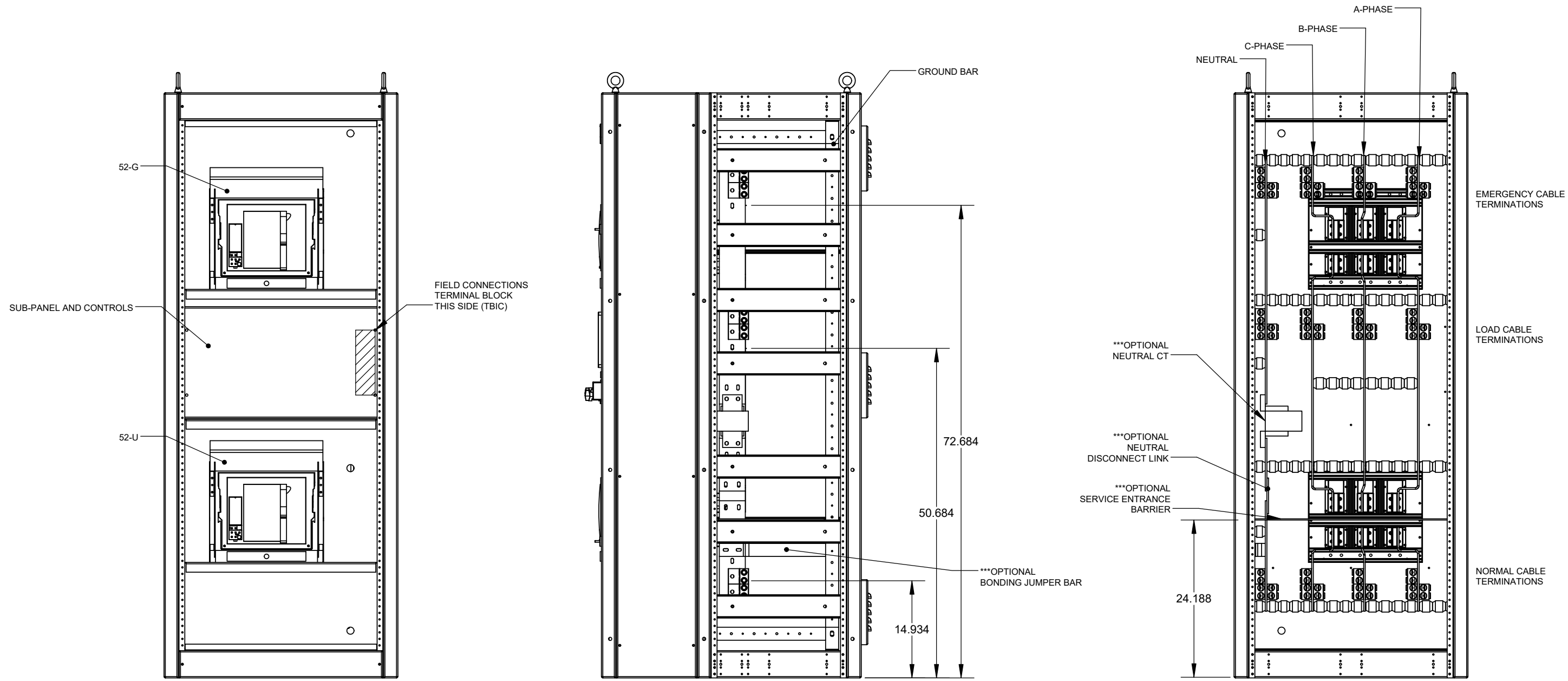


REV. #	DATE	BY	REVISION DESCRIPTION	VOLTAGE	CERTIFICATION	UL, S.E. RATED	DRAWN DATE	DRAWN BY	CHECK BY	JOB NAME
-	-	-	-	-	-	-	1/13/2016	WAS	ABF	STATES MANUFACTURING UL 1008 ATS FILE MINNEAPOLIS, MN
-	-	-	-	3 PH	ENCL. TYPE	TYPE 1	ENGINEER			SHEET EL 1
-	-	-	-	4 W	ENCL. MATERIAL	12 GA. C.R.S.	CONTRACTOR			
-	-	-	-	60 HZ	ENCL. PAINT	ANSI 61	DISTRIBUTOR			SCALE NA
-	-	-	-	100KAIC	CONTROL WIRE TYPE	SIS	-			
-	-	-	-	1000A	PT/CT WIRE SIZE	14-12 AWG	-			
-	-	-	-	1000A	CONTROL WIRE SIZE	16-14 AWG	-			
-	-	-	-	COPPER	WIRE LABELS	CLIP ON	-			
-	-	-	-	(1) 1/4" X 2"	EXT. LABELS	WHITE WITH BLACK LETTERS	-			

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	TYPE 1
WIRE	4 W	ENCL. MATERIAL	12 GA. C.R.S.
FREQUENCY	60 HZ	ENCL. PAINT	ANSI 61
S.C. RATING	100KAIC	CONTROL WIRE TYPE	SIS
PHASE BUS	1000A	PT/CT WIRE SIZE	14-12 AWG
NEUTRAL BUS	1000A	CONTROL WIRE SIZE	16-14 AWG
BUS MATERIAL	COPPER	WIRE LABELS	CLIP ON
GND. BUS	(1) 1/4" X 2"	EXT. LABELS	WHITE WITH BLACK LETTERS

DRAWN DATE	DRAWN BY	CHECK BY	JOB NAME
1/13/2016	WAS	ABF	STATES MANUFACTURING UL 1008 ATS FILE MINNEAPOLIS, MN
ENGINEER			SHEET TITLE ATS-1-X-X-X-X 600VAC MAX, 3PH, 4W, 1000A, NW ELEVATION VIEWS
CONTRACTOR			
DISTRIBUTOR			

		SERIAL NUMBER	DRAWING TYPE	SHEET
		-	EL	2
ORDER NUMBER		SCALE		
-		NA		

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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
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-	-	-	-
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CONSTRUCTION NOTES	VOLTAGE	-	CERTIFICATION	UL, S.E. RATED	DRAWN DATE	1/13/2016	DRAWN BY	WAS	CHECK BY	ABF						
	PHASE	3 PH	ENCL. TYPE	TYPE 1	<table border="1"> <tr> <td colspan="2">ENGINEER</td> </tr> <tr> <td colspan="2">CONTRACTOR</td> </tr> <tr> <td colspan="2">DISTRIBUTOR</td> </tr> </table>						ENGINEER		CONTRACTOR		DISTRIBUTOR	
	ENGINEER															
	CONTRACTOR															
	DISTRIBUTOR															
	WIRE	4 W	ENCL. MATERIAL	12 GA. C.R.S.												
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JOB NAME		STATES MANUFACTURING UL 1008 ATS FILE MINNEAPOLIS, MN	
SHEET TITLE	STATES MANUFACTURING CORP STANDARD SETTINGS AND CONSTRUCTION NOTES		



SERIAL NUMBER	-	DRAWING TYPE	EL	SHEET	3
ORDER NUMBER	-	SCALE	NA		

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