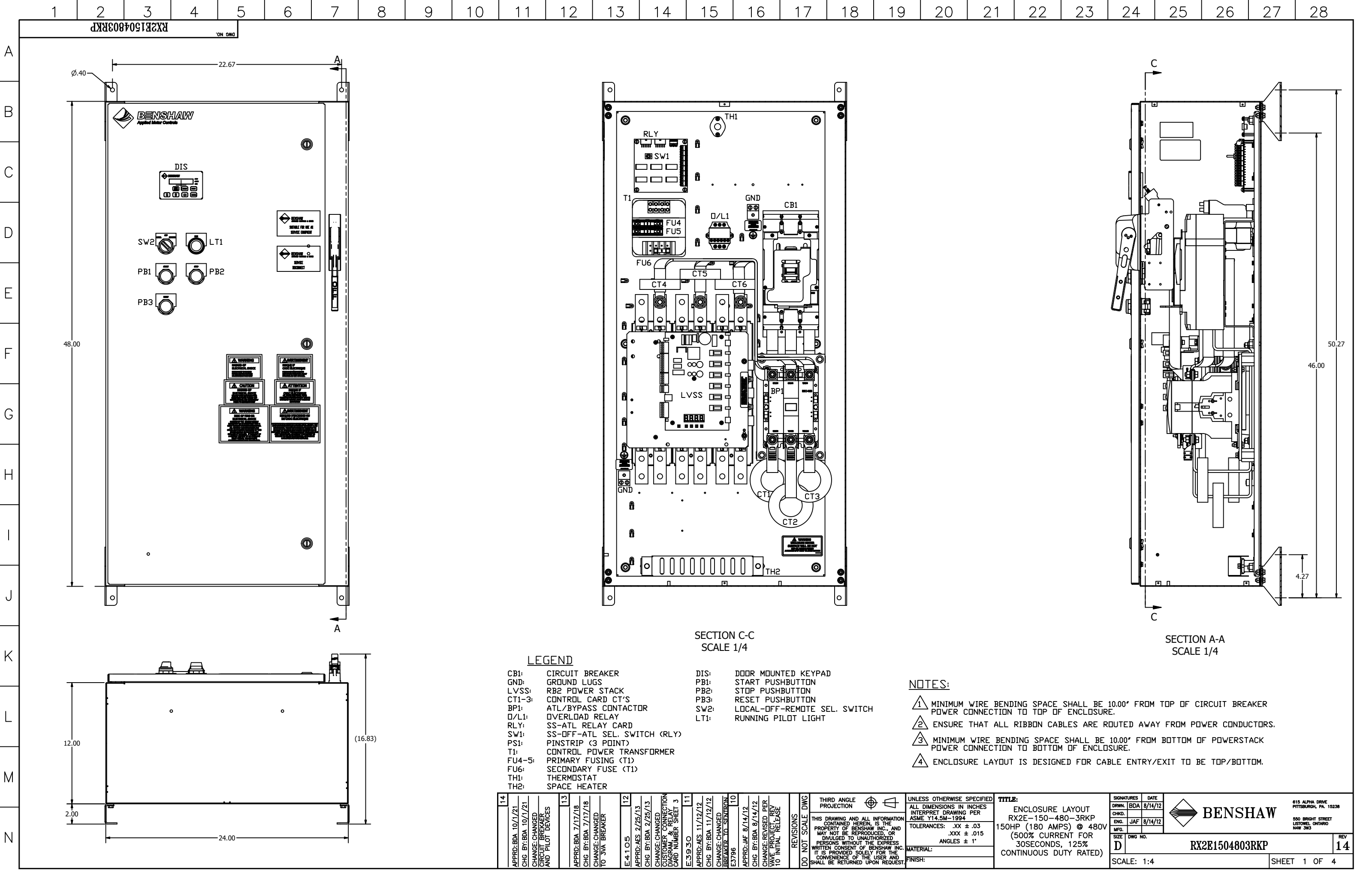




LEGEND

CB1:	CIRCUIT BREAKER	DIS:	DOOR MOUNTED KEYPAD
GND:	GROUND LUGS	PB1:	START PUSHBUTTON
LVSS:	RB2 POWER STACK	PB2:	STOP PUSHBUTTON
CT1-3:	CONTROL CARD CT'S	PB3:	RESET PUSHBUTTON
BP1:	ATL/BYPASS CONTACTOR	SW2:	LOCAL-OFF-REMOTE SEL. SWITCH
O/L1:	OVERLOAD RELAY	LT1:	RUNNING PILOT LIGHT
RLY:	SS-ATL RELAY CARD		
SW1:	SS-OFF-ATL SEL. SWITCH (RLY)		
PS1:	PINSTRIIP (3 POINT)		
T1:	CONTROL POWER TRANSFORMER		
FU4-5:	PRIMARY FUSING (T1)		
FU6:	SECONDARY FUSE (T1)		
TH1:	THERMOSTAT		
TH2:	SPACE HEATER		

NOTES:

- 1 MINIMUM WIRE BENDING SPACE SHALL BE 10.00" FROM TOP OF CIRCUIT BREAKER POWER CONNECTION TO TOP OF ENCLOSURE.
- 2 ENSURE THAT ALL RIBBON CABLES ARE ROUTED AWAY FROM POWER CONDUCTORS.
- 3 MINIMUM WIRE BENDING SPACE SHALL BE 10.00" FROM BOTTOM OF POWERSTACK POWER CONNECTION TO BOTTOM OF ENCLOSURE.
- 4 ENCLOSURE LAYOUT IS DESIGNED FOR CABLE ENTRY/EXIT TO BE TOP/BOTTOM.

14		APPRD:BDA 10/1/21 CHG BY:BDA 10/1/21 CHANGE: CHANGED CIRCUIT BREAKER AND PILOT DEVICES		13		APPRD:BDA 7/17/18 CHG BY:BDA 7/17/18 CHANGE: CHANGED TO 3VA BREAKER		12		E4105 APPRD:AES 2/25/13 CHG BY:BDA 2/25/13 CHANGE: CHANGED CUSTOMER CONNECTION DIAGRAM & RELAY CARD NUMBER SHEET 3		11		E3930 APPRD:AES 11/12/12 CHG BY:BDA 11/12/12 CHANGE: CHANGED BREAKER TO SEMIRON E3796		10		APPRD:JAF 8/14/12 CHG BY:BDA 8/14/12 CHANGE: REVISED PER VAVE PROJECT REV 10 INITIAL RELEASE		REVISIONS DO NOT SCALE DWG		THIRD ANGLE PROJECTION 		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES INTERPRET DRAWING PER ASME Y14.5M-1994 TOLERANCES: .XX ± .03 .XXX ± .015 ANGLES ± 1°		TITLE: ENCLOSURE LAYOUT RX2E-150-480-3RKP 150HP (180 AMPS) @ 480V (500% CURRENT FOR 30SECONDS, 125% CONTINUOUS DUTY RATED)		SIGNATURES DRWN. BDA 8/14/12 CHKD. JAF 8/14/12 ENG. JAF 8/14/12 MFG. SIZE DWG NO. D		DATE 8/14/12		 BENSHAW 615 ALPHA DRIVE PITTSBURGH, PA. 15238 500 BRIGHT STREET LITWELL, ONTARIO N4W 3W3		REV 14	
SCALE: 1:4										RX2E1504803RKP										SHEET 1 OF 4															

A

B

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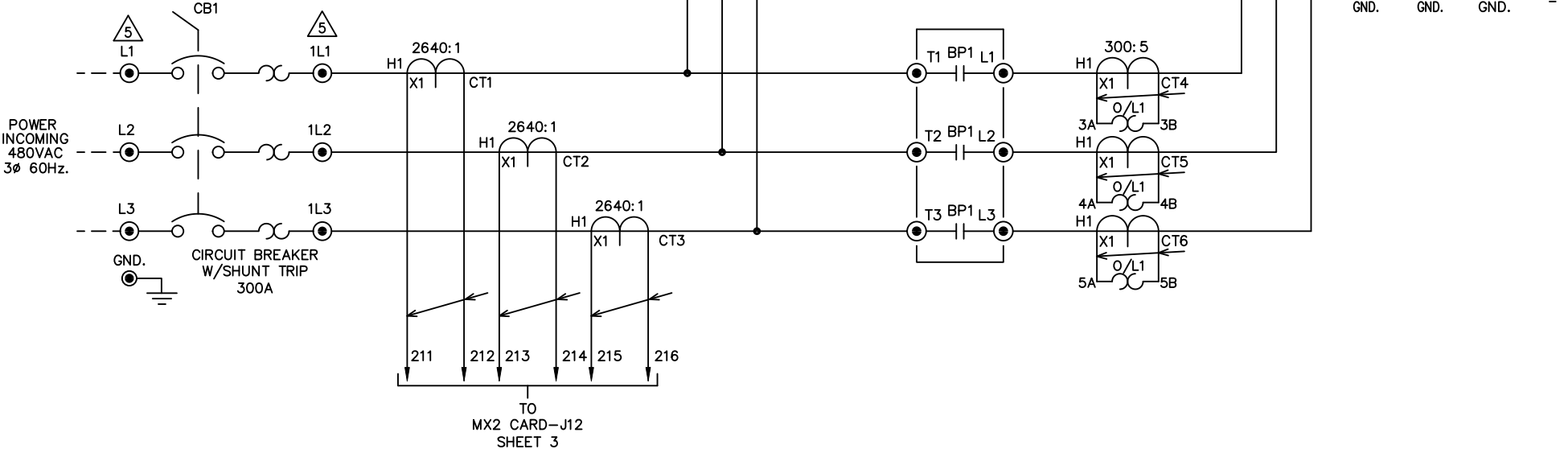
N

RX2E1504803RKP

DWG NO.

LOAD CONNECTIONS
1.25 WIDE BUS TAB WITH TWO 0.52 DIA. HOLE FOR BOLTED CONNECTION 1.75 APPART.

BREAKER LUGS ACCEPT
WIRE SIZE RANGE: (1) 1/0-300KCMIL TIGHTENING TORQUE: 358.5LB-IN (40.5Nm)
WIRE SIZE RANGE: (1) 350-600KCMIL TIGHTENING TORQUE: 478LB-IN (54Nm)



NOTES

- 1
- FAILSAFE FAULT RELAY SHOWN IN DE-ENERGIZED STATE. RELAY WILL ENERGIZE WHEN CONTROL POWER IS APPLIED TO CONTROL CARD, AND WILL REMAIN ENERGIZED WHEN NO FAULTS ARE PRESENT. RELAY WILL DE-ENERGIZE WHEN A FAULT OCCURS, OR IF CONTROL POWER IS REMOVED FROM THE CARD
- 2
- REFER TO INSTRUCTION MANUAL FOR STARTER CONFIGURATION.
- 3
- CUSTOMER SHOULD MONITOR GENERAL FAULT CONTACTS OF RELAY (R3) FOR FAULT DETECTION, AND REMOVE 2 WIRE RUN COMMAND WHEN A FAULT IS DETECTED.
- 4
- TIGHTEN CARD WIRING CONNECTIONS TO 2.7-3.5 in. lbs. (0.3-0.4 N-m).
- 5
- TIGHTEN POWER LUG FIELD WIRING CONNECTIONS TO CHART 1. SPECIFICATIONS. IF BREAKER IS SUPPLIED ON LINE SIDE OF STACK USE TORQUE VALUES ON BREAKER.
- 6
- REMOVE JUMPER WHEN INTERLOCKS ARE INSTALLED.
- 7
- SELECT EITHER TWO OR THREE WIRE CONTROL.
- 8
- STARTER SHIPPED SETUP FOR CUSTOMER SUPPLIED REMOTE 2 WIRE CONTROL. IF NO CONTROL IS TO BE USED THEN JUMPERS SHOULD REMAIN AS SHOWN.
- 9
- IF CUSTOMER SUPPLIED REMOTE 3 WIRE CONTROL IS NEEDED MAKE CUSTOMER CONNECTIONS AS SHOWN.
- 10
- CHANGE P49 (DI2) TO "FR" (FAULT RESET)
- 11
- SW1-1: (ANALOG INPUT) UP = CURRENT, DOWN = VOLTAGE
SW1-2: (ANALOG OUTPUT) UP = VOLTAGE, DOWN = CURRENT
- 12
- PROGRAM (P78), FUN (03), CT RATIO = 2640:1

STANDARD LEGEND

-
- WIRE NODE SYMBOL MAY HAVE TERMINAL BLOCK
-
- BENSHAW SUPPLIED TERMINAL BLOCK
-
- TERMINAL STRIP
-
- POWER CONNECTION
-
- PC BOARD TERMINALS
-
- TWISTED PAIR
-
- TWISTED SHIELDED PAIR
-
- SHIELDED WIRE
-
- FIELD WIRING

CHART 1

TIGHTENING TORQUE SPECIFICATIONS FOR HEX HEAD SCREWS		
BOLT SIZE SAE	BOLTS - (IN. LB)	GRADE 5 (FT. LB)
1/4	96-120	8-10
5/16	180-228	15-19
3/8	300-396	25-33
7/16	480-648	40-54
1/2	720-936	60-78

REVISIONS

DO NOT SCALE DWG

THIRD ANGLE PROJECTION

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UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS IN INCHES INTERPRET DRAWING PER ASME Y14.5M-1994

TOLERANCES: .XX ± .03
.XXX ± .015
ANGLES ± 1°

MATERIAL:

FINISH:

TITLE:

POWER SCHEMATIC
RX2E-150-480-3RKP
150HP (180 AMPS) @ 480V
(500% CURRENT FOR
30SECONDS, 125%
CONTINUOUS DUTY RATED)

SIGNATURES

DATE

DRWN. BDA 8/14/12

CHKD.

ENG. JAF 8/14/12

MFG.

SIZE DWG NO.

D

RX2E1504803RKP

REV

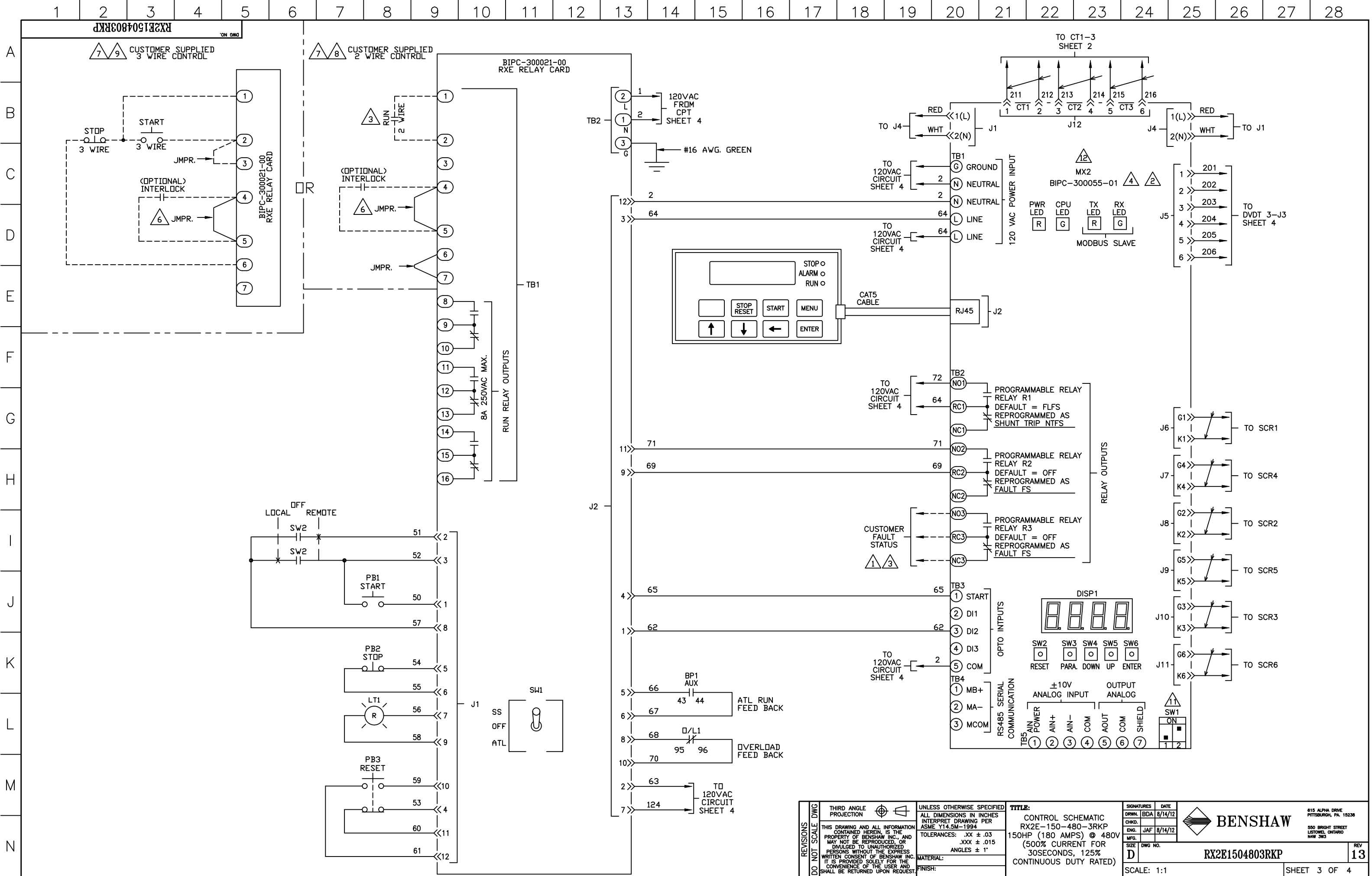
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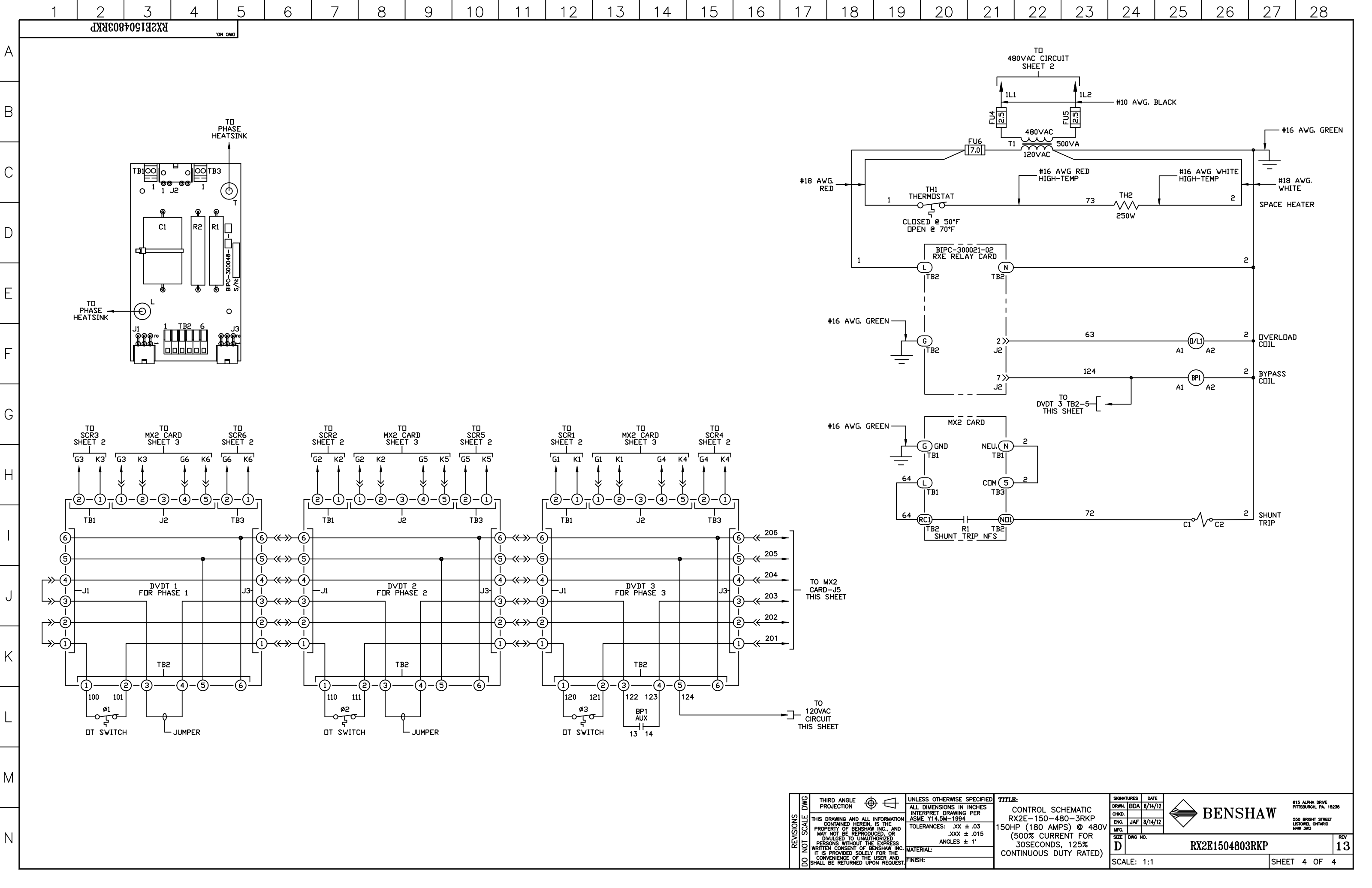
615 ALPHA DRIVE
PITTSBURGH, PA. 15238

500 BRIGHT STREET
LUSTOWE, ONTARIO
N4W 3W3

SCALE: 1:1

SHEET 2 OF 4





REVISIONS	DO NOT SCALE DWG	THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES INTERPRET DRAWING PER ASME Y14.5M-1994 TOLERANCES: .XX ± .03 .XXX ± .015 ANGLES ± 1° MATERIAL: FINISH:	TITLE: CONTROL SCHEMATIC RX2E-150-480-3RKP 150HP (180 AMPS) @ 480V (500% CURRENT FOR 30SECONDS, 125% CONTINUOUS DUTY RATED)	SIGNATURES DRWN. BDA 8/14/12 CHKD. ENG. JAF 8/14/12 MFG. SIZE D DWG NO.	DATE 8/14/12 8/14/12	BENSHAW 615 ALPHA DRIVE PITTSBURGH, PA. 15238 500 BRIGHT STREET LUTHERVILLE, ONTARIO N4W 3W3
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SCALE: 1:1					SHEET 4 OF 4		REV 13