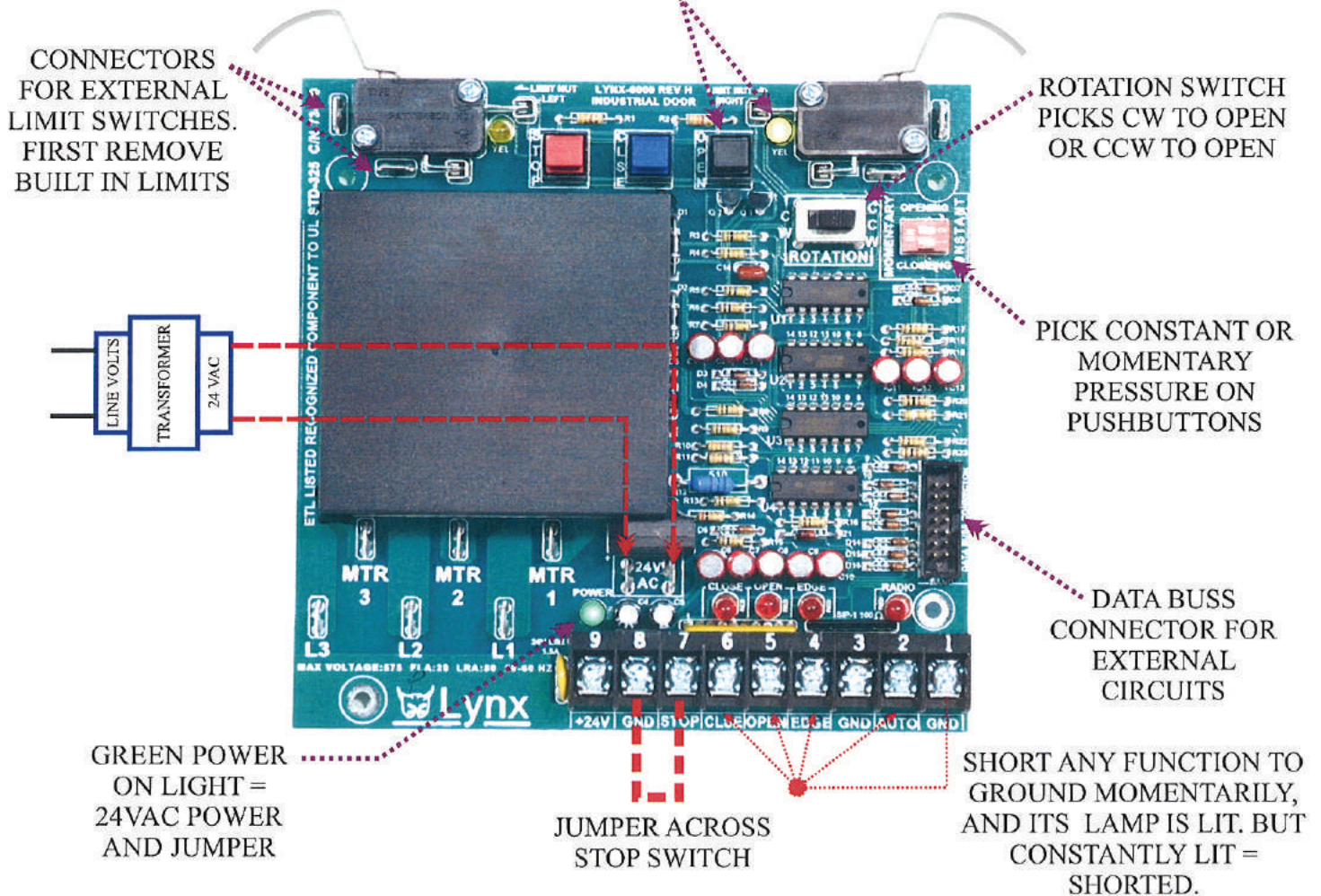


# LYNX-6000 BASIC OPERATION MANUAL

PRESS OPEN SWITCH, ACTIVE LIMIT SWITCH LIGHTS. LIMIT NUT MUST TRAVEL TOWARDS LIT LIMIT SWITCH.



## 1) CORRECT WIRING = GREEN LIGHT ON AND ALL RED LIGHTS OFF.

NO GREEN = NO 24-VOLT POWER, NO STOP SWITCH OR NO STOP SWITCH BYPASS JUMPER.  
ANY RED = SHORTED PUSHBUTTON, SHORTED RADIO CONTROL, OR SHORTED EDGE.

## 2) LIMIT SHAFT NUT MUST TRAVEL TOWARDS LIT LIMIT SWITCH.

NUT TRAVELS TO UNLIT LIMIT SWITCH = REVERSE MTR-2 AND MTR-3 WIRES. THE ROTATION SWITCH WILL NOT FIX THIS PROBLEM. PRESSING THE WRONG UNLIT LIMIT SWITCH WILL STILL STOP THE MOTOR BUT THE SNOW LIMIT MAY BE MISSING OR OPEN TERMINAL MAY ACTUALLY CLOSE THE DOOR.

## 3) MOTOR CONTACTOR

THE MOTOR CONTACTOR MAKES THE FOLLOWING CONNECTIONS;

L1 TO MTR1 = OPENING OR CLOSING,

L2 TO MTR2 = OPENING ONLY,

L2 TO MTR3 = CLOSING ONLY

L3 TO MTR3 = OPENING ONLY

L3 TO MTR2 = CLOSING ONLY

NOTE THAT MTR2 AND MTR3 REVERSE THEIR POWER LINE CONNECTIONS. MTR1 ALWAYS CONNECTS TO L1.

For more information, please visit [www.devancocanada.com](http://www.devancocanada.com) or call toll free at 855-931-3334



## WIRING CHART ATLAS TO LYNX-6000

**High Voltage Notes:** All connections in high voltage section on Lynx use ¼” crimp-on insulated connectors.

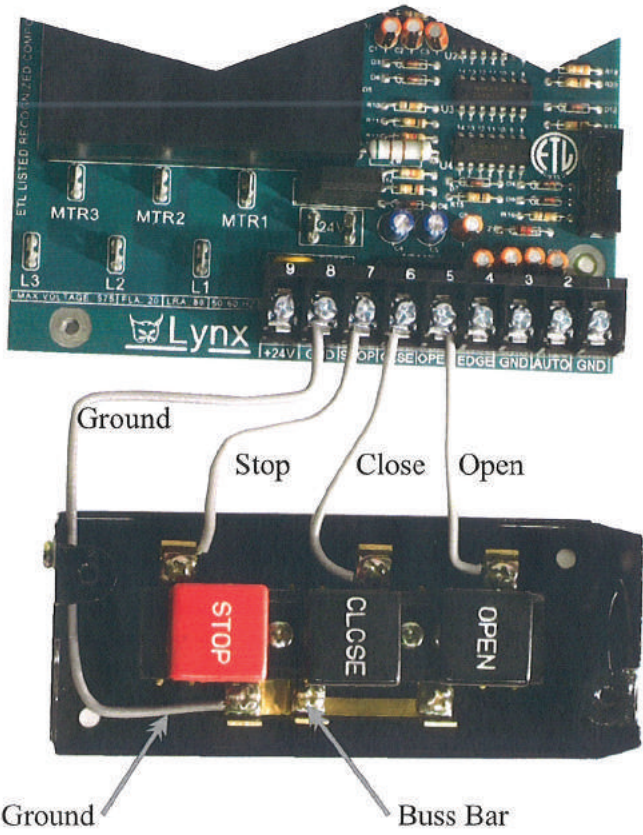
<b>HIGH VOLTAGE CONNECTIONS</b>				
<b>ATLAS PC BOARD</b>			<b>NEW LYNX PC BOARD</b>	
<b>PIN</b>	<b>COLOR</b>	<b>NOTE</b>	<b>TO LYNX</b>	<b>DESCRIPTION</b>
1	BLACK	MTR-1	MTR-1	MOTOR WIRE
2	BLACK	L1	L1	POWER LINE 1
3	WHITE	L2	L2	POWER LINE 2
4	WHITE	MTR2	MTR2	MOTOR WIRE 2
5	RED	MTR-3	MTR-3	MOTOR WIRE 3
6	RED	L3	L3	POWER LINE 3

**Low Voltage Notes:** Cut off old Atlas Edge connector. Connect wires to new terminal block. The two yellow wires are 24VAC from the Atlas transformer, they connect to two 3/16” crimp-on quick connects marked “24VAC” on the new LYNX-6000 board and do not have polarity. Alternatively, you can remove all old low voltage wires, old terminal block, and just wire directly to the new Lynx terminal block.

<b>LOW VOLTAGE CONNECTIONS</b>			
<b>ATLAS BOARD</b>	<b>NEW LYNX REPLACEMENT CIRCUIT BOARD CONNECTIONS</b>		
<b>COLOR</b>	<b>TB</b>	<b>NOTE</b>	<b>DESCRIPTION</b>
GREEN	1	GND	GROUND
ORANGE	2	AUTO	RADIO/ 1-BUTTON
	3	GND	GROUND
BROWN	4	EDGE	SAFETY EDGE/PHOTO EYE
BLUE	5	OPEN	OPEN SWITCH
GREY	6	CLSE	CLOSE SWITCH
BLACK	7	STOP	STOP SWITCH/-24V
	8	GND	GROUND
RED	9	+24V	+24VDC POWER



### THREE BUTTON STATION WIRING

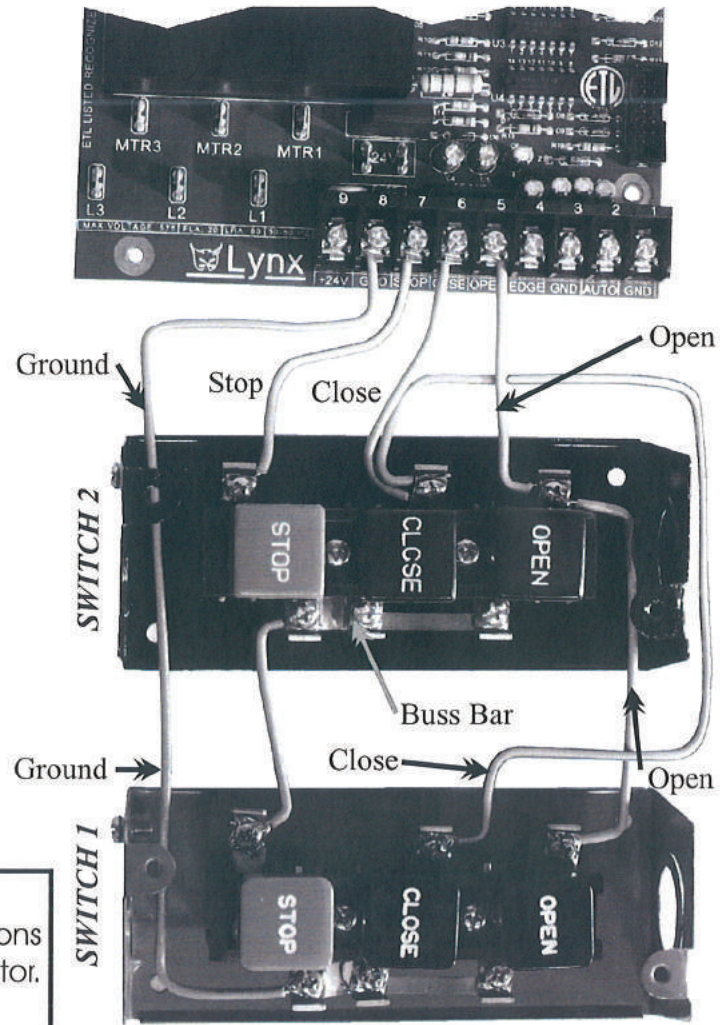


#### CONNECTION DESCRIPTION

There is no limit to the number of three button stations that can be connected to this motor operator. Verbal instructions are as follows;

- Open Switches** are all connected together.
- Close Switches** are all connected together.
- Ground** is connected to the buss bar on the switch that is furthest away from the motor operator or on a switch we will call switch "1".
- Stop** is looped. Begin from stop switch "1" to the buss bar of switch-2. Then from the stop-2 to the buss bar of switch-3. Continue until the last switch. Finally from the last stop switch to terminal 7, marked stop on the Lynx-6000.
- Power On Light** must illuminate or the stop wiring is incorrect.

### MULTIPLE THREE BUTTON STATION WIRING



#### PUSHBUTTONS

There is no limit to the number of pushbuttons that can be connected to this motor operator. There is no wire length restriction. All pushbuttons are low voltage and low current.

- Open Switch (Pin 5)** - Ground to Open door
- Close Switch (Pin 6)** - Ground to Close door
- Stop Switch (Pin 7)** - Normally Closed, ground to operate door, open circuit to remove power from circuit board and stop the door.
- Auto Switch (Pin 2)** - Ground to operate door



**LYNX-6000 DOOR OPERATING INSTRUCTIONS**

Set the door and the limit nuts in the middle. Bending the limit levers or removing the black cover voids the warranty. Consult the manual for full instructions.

**1) ROTATION:** Press the OPEN button, press the STOP button immediately. If the Limit Nuts travel toward the Lit Limit Light the rotation is correct. If not reverse any two power wires. Limit nuts should always travel towards the lit indicator.

Rotation Switch will allow for Clockwise or CCW shaft rotation to open the door it will not correct for reversed power line phasing.

**2) SET THE LIMITS:** Open and close the door rotating the limit nuts until they are in the correct positions. Do not bend the limit switch levers.

**3) PROGRAM SWITCH:** Set the open switch to constant or momentary as required. Leave the close switch in the momentary position unless a safety device such as a safety edge or photoelectric eye has been installed. Set to momentary if a safety device is installed and operational.

**4) DIAGNOSTICS:**

**Green Power Light:** indicates 24 volts AC is applied. If not lit the circuit board is working but it is not getting power. Check the power, stop switch, transformer, and interlocks.

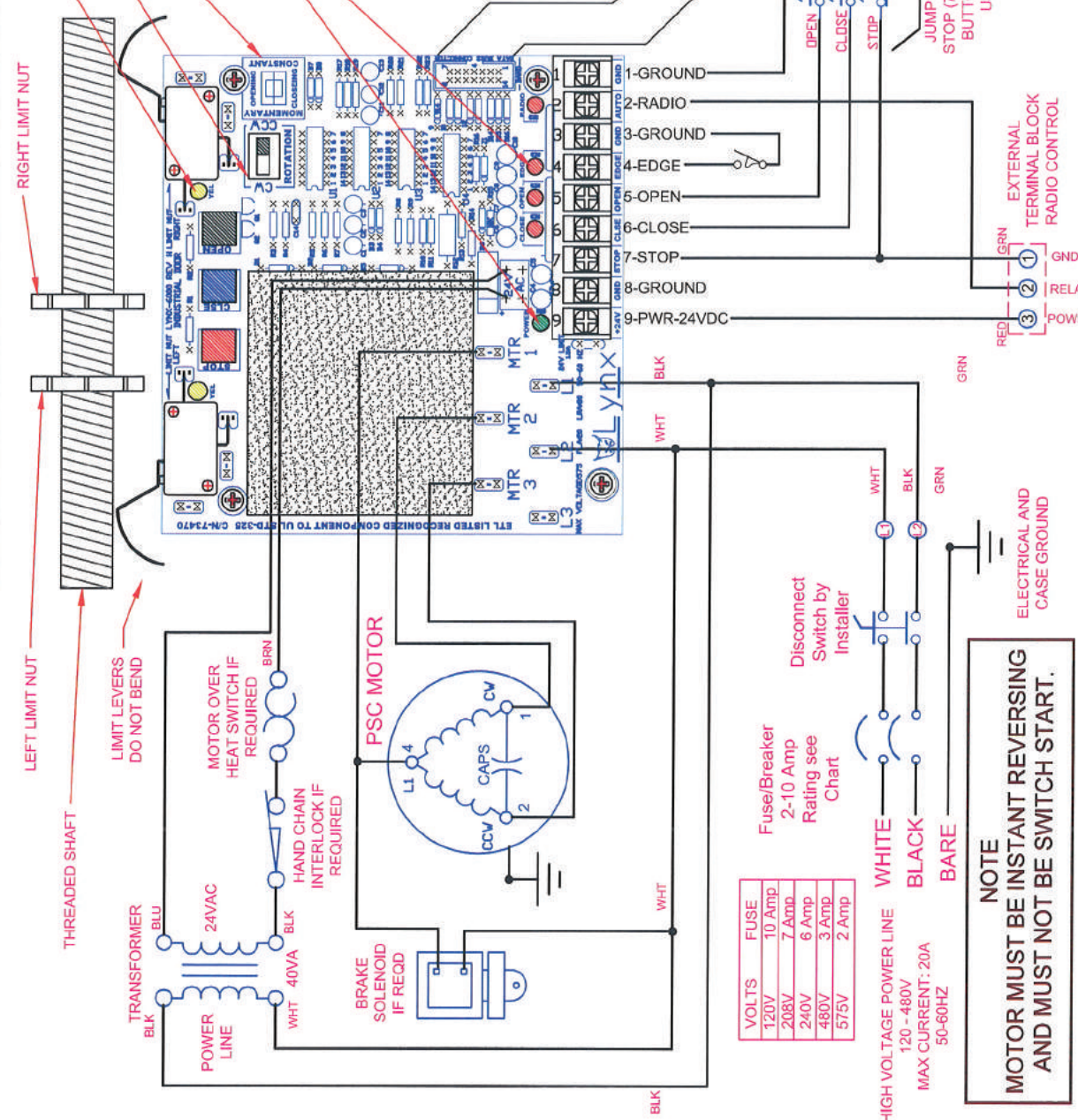
**RED Lights:** indicates a button is activated. They must all be off when no button is pressed. In general the GREEN light is on and all RED lights are off.

**3-Button Station:** can operate the door with only power applied. Jumper Gnd to Pin-7, (STOP), on the terminal block and the Power Light will be lit. Use the 3-button station to check operation.

**5) HELD BUTTONS:** If the STOP switch is pressed the unit will not operate until both the OPEN and the CLOSE buttons are released. Both the OPEN and the CLOSE buttons must also be released after a power loss. Buttons shorted to ground will act as if they are pressed continuously and the unit will not operate until the short is removed.

**6) EDGE SWITCH:** If obstruction sensing is installed it must use a normally open switch contact that closes when there is an obstruction. If the edge switch is held closed continuously the door will open and never close until the closed contact or obstruction is removed. If the door is closed or is within its last 2-inches of travel the edge switch will only signal a stop command.

**7) SNOW LIMIT:** This circuitry contains an electronic snow limit switch that will activate 2-inches from the fully closed position. No adjustment of this limit is necessary.



RIGHT LIMIT NUT

LEFT LIMIT NUT

LIMIT LEVERS DO NOT BEND

MOTOR OVER HEAT SWITCH IF REQUIRED

HAND CHAIN INTERLOCK IF REQUIRED

BRAKE SOLENOID IF REQD

14 COND FLAT COMPUTER CABLE

JAM DETECTOR IF REQD

FAIL SAFE SAFETY EDGE IF REQD

TIMER TO CLOSE IF REQD

WIRING FOR MULTIPLE 3-BUTTON STATIONS

JUMP GND TO STOP (7) IF STOP BUTTON NOT USED

EXTERNAL TERMINAL BLOCK RADIO CONTROL

NOTE: MOTOR MUST BE INSTANT REVERSING AND MUST NOT BE SWITCH START.

ELECTRICAL AND CASE GROUND

Disconnect Switch by Installer

Fuse/Breaker 2-10 Amp Rating see Chart

HIGH VOLTAGE POWER LINE 120-480V 50-60HZ

WHITE BLACK BARE

WHT BLK GRN

1-GROUND 2-RADIO 3-GROUND 4-EDGE 5-OPEN 6-CLOSE 7-STOP 8-GROUND 9-PWR-24VDC

1 2 3 4 5 6 7 8 9

1 2 3

GRN RELAY POWER

GRN

WHT BLK GRN

BLK

WHT

BLK

WHT

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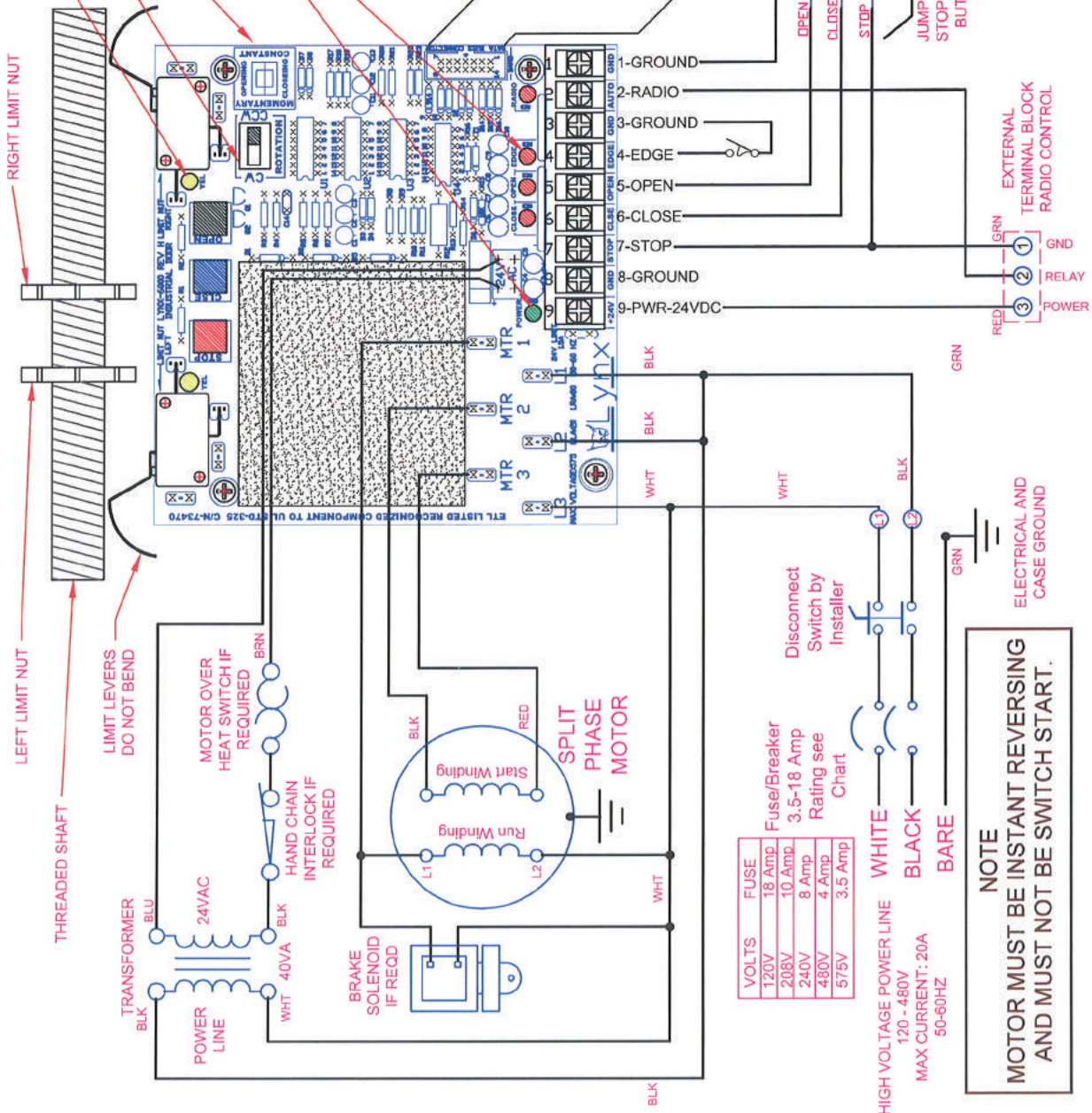
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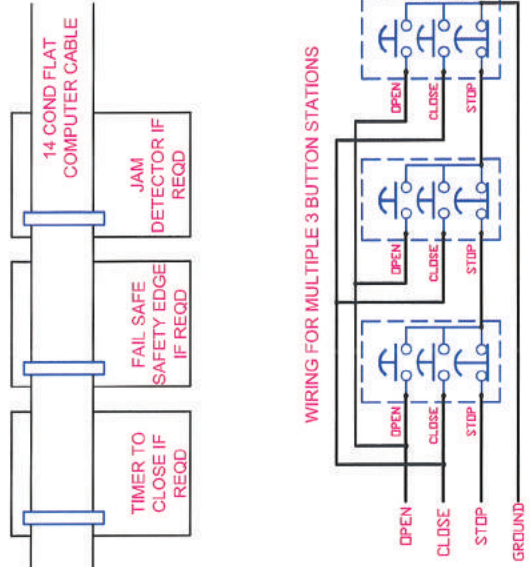
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VOLTS	FUSE
120V	18 Amp
208V	10 Amp
240V	8 Amp
480V	4 Amp
575V	3.5 Amp

HIGH VOLTAGE POWER LINE  
 120 - 480V  
 MAX CURRENT: 20A  
 50-60HZ

**NOTE**  
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 AND MUST NOT BE SWITCH START.

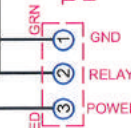
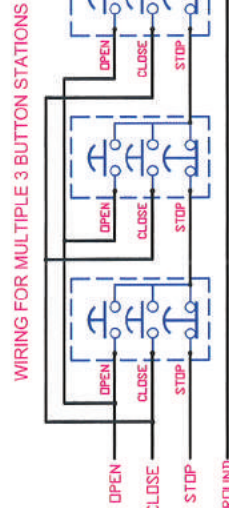
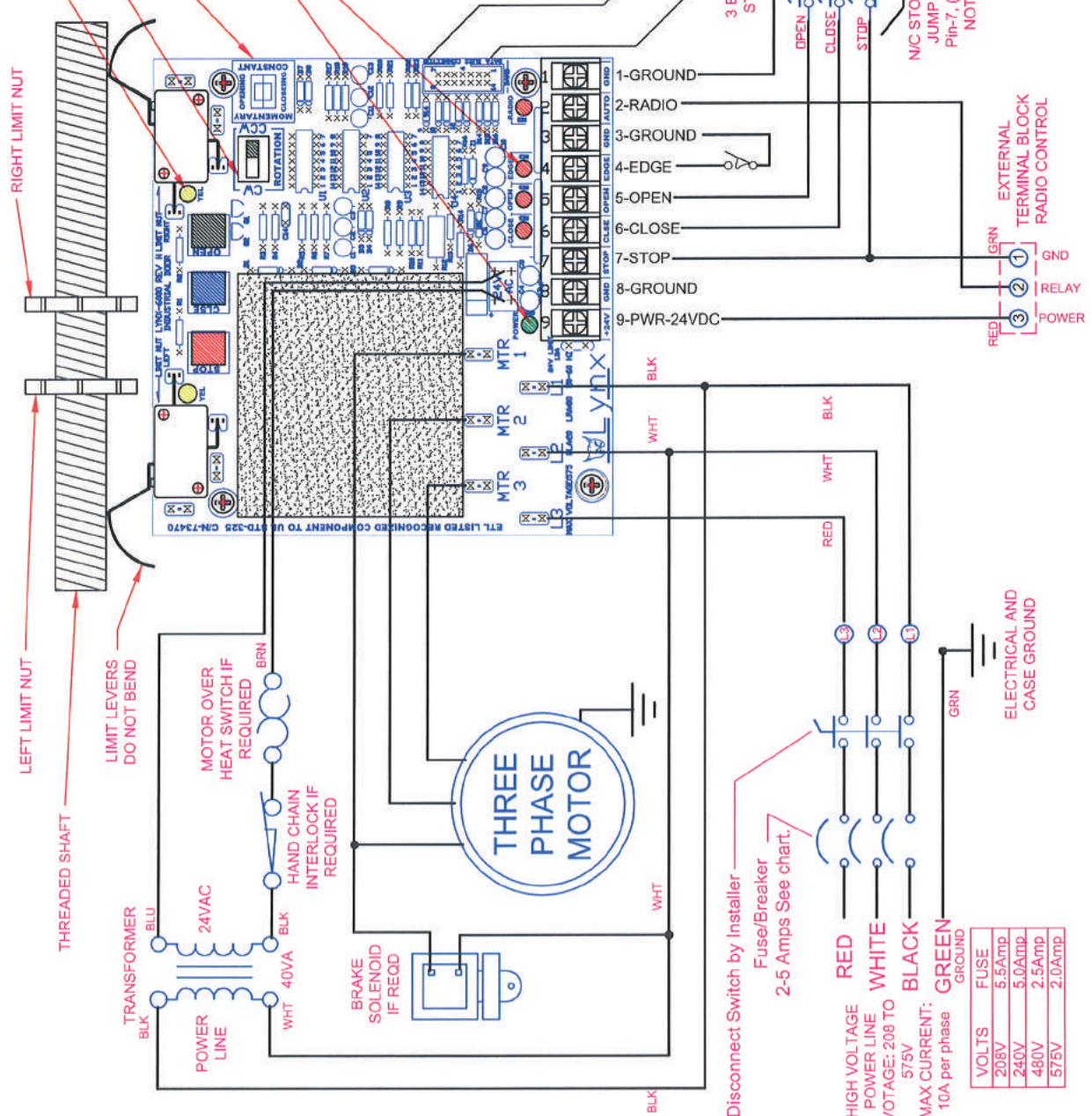


**WIRING FOR MULTIPLE 3 BUTTON STATIONS**



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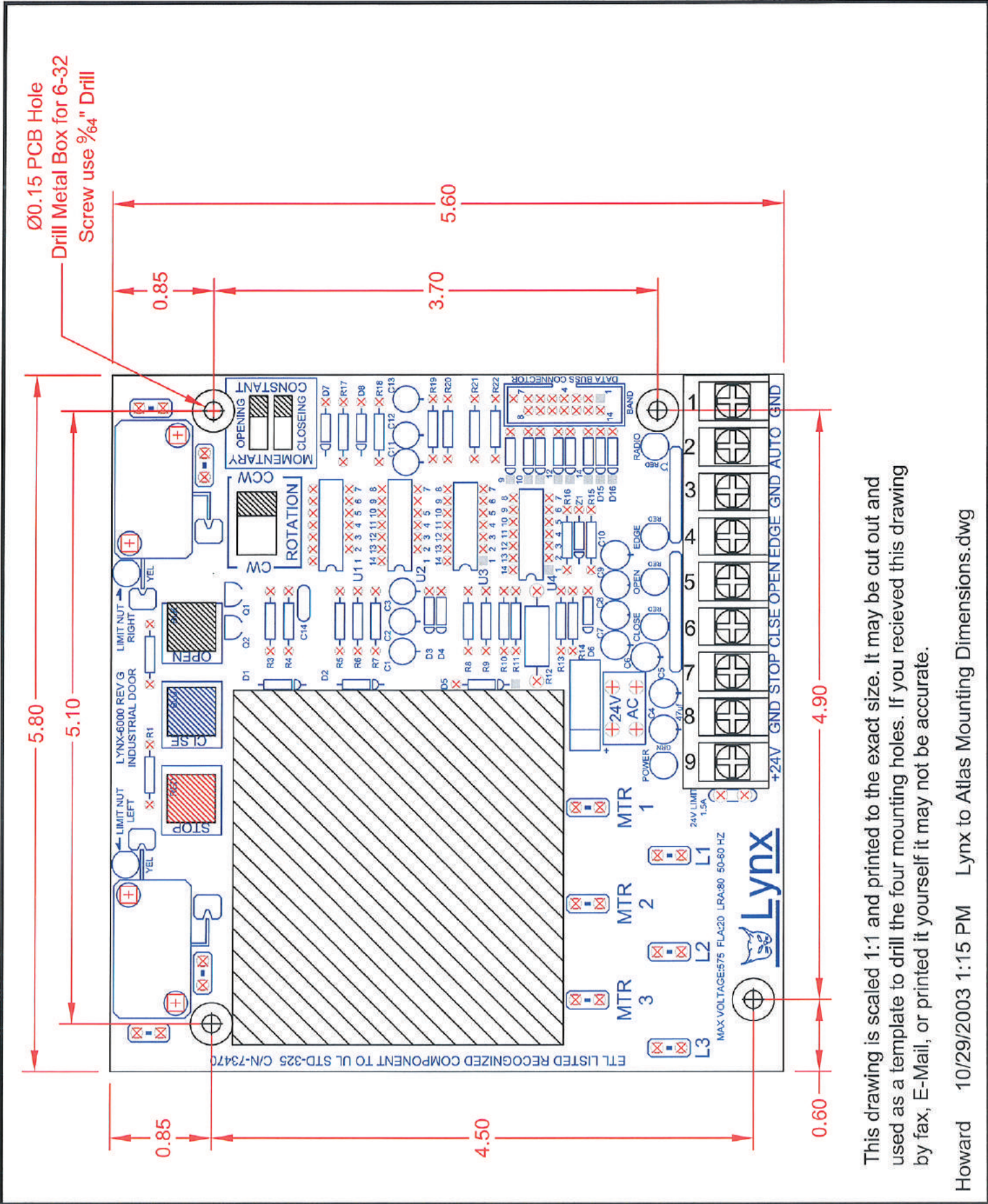


VOLTS	FUSE
208V	5.5Amp
240V	5.0Amp
480V	2.5Amp
575V	2.0Amp

Disconnect Switch by Installer  
Fuse/Breaker  
2-5 Amps See chart.

HIGH VOLTAGE POWER LINE VOLTAGE: 208 TO 575V  
MAX CURRENT: 10A per phase





This drawing is scaled 1:1 and printed to the exact size. It may be cut out and used as a template to drill the four mounting holes. If you received this drawing by fax, E-Mail, or printed it yourself it may not be accurate.

***HOW TO ORDER  
REPAIR PARTS***

**DEVANCO CANADA**

19192 HAY ROAD, UNIT Q  
SUMMERSTOWN, ON K0C 2E0

TOLL FREE: 855-931-3334

[www.devancocanada.com](http://www.devancocanada.com)

**WHEN ORDERING REPAIR PARTS  
PLEASE SUPPLY THE  
FOLLOWING INFORMATION:**

- ✓ PART NUMBER
- ✓ DESCRIPTION
- ✓ MODEL NUMBER