



Radius Series EW Wiring Diagrams
Radius Series EW Wiring Diagrams w/ Peaktronics Controllers



In outdoor installations and those installations subject to high humidity, please be sure the heater is properly wired.



All Radius EW series actuators must be powered through its own individual switch, circuit or relay to prevent stray voltage cross feeding to other actuators.

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EW Wiring Diagrams w/Peaktronics Controllers

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ABBREVIATIONS:

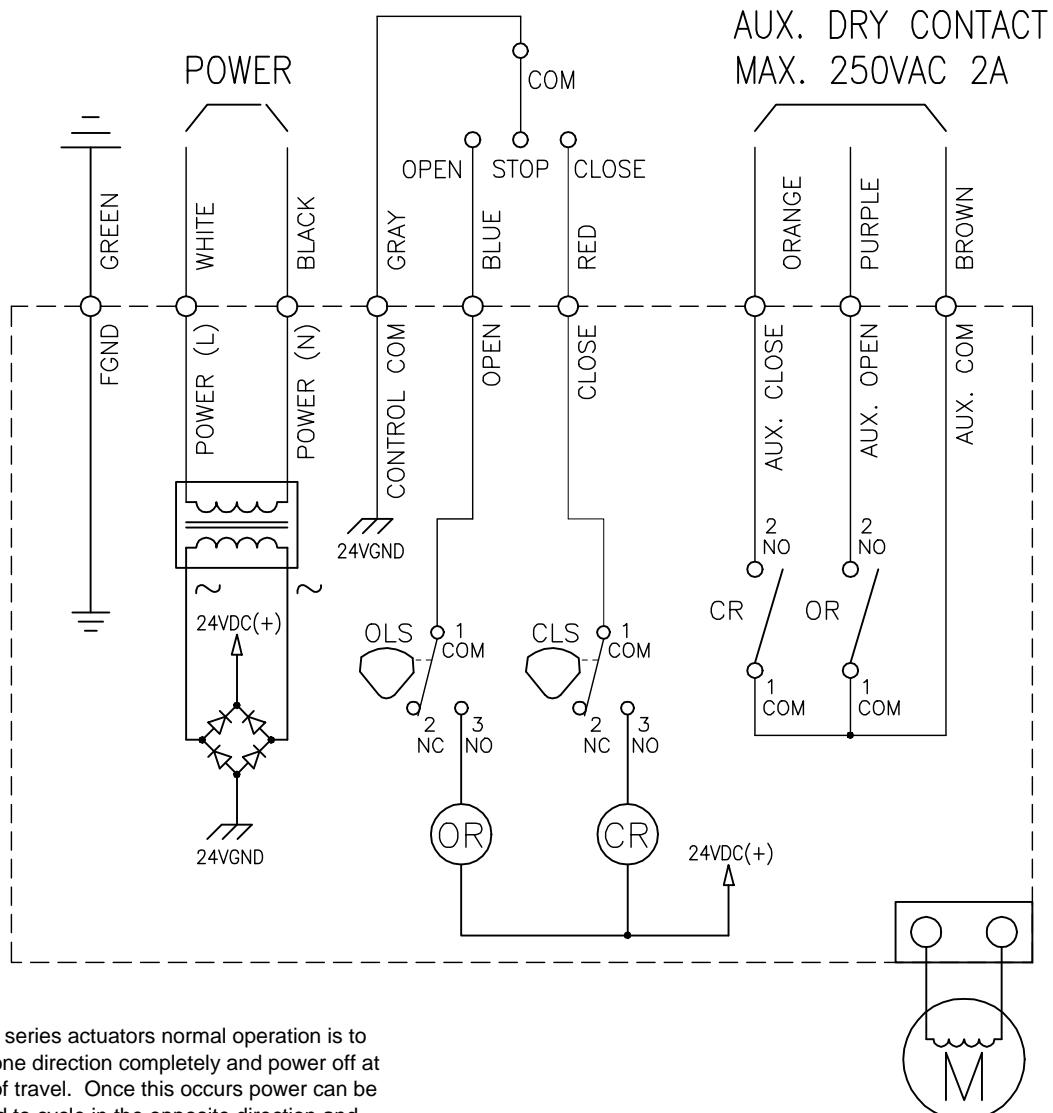
CLS-Closed Limit Switch
OLS-Open Limit Switch
ACLS-Auxiliary Closed Limit Switch
AOLS-Auxiliary Open Limit Switch
OTS-Open Torque Switch
CTS-Closed Torque Switch
TP-Thermal Over-Load Protector
Note: All above Switches 250VAC 10A Max



Radius Series EW-180 110VAC wiring

- AC 85V~265V
- AC 24V

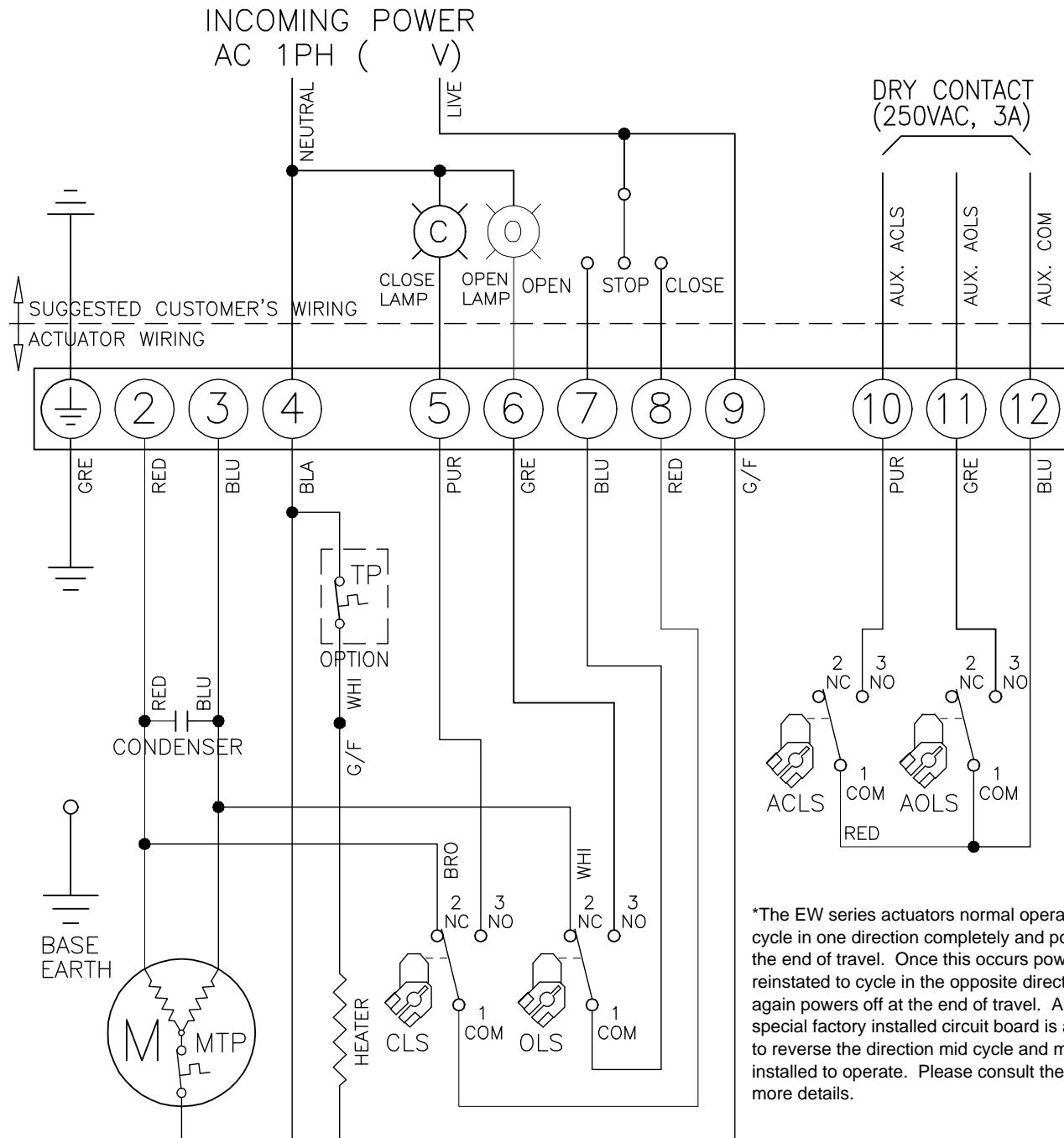
- DC 24V
 - WHITE (+)
 - BLACK (-)



*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.



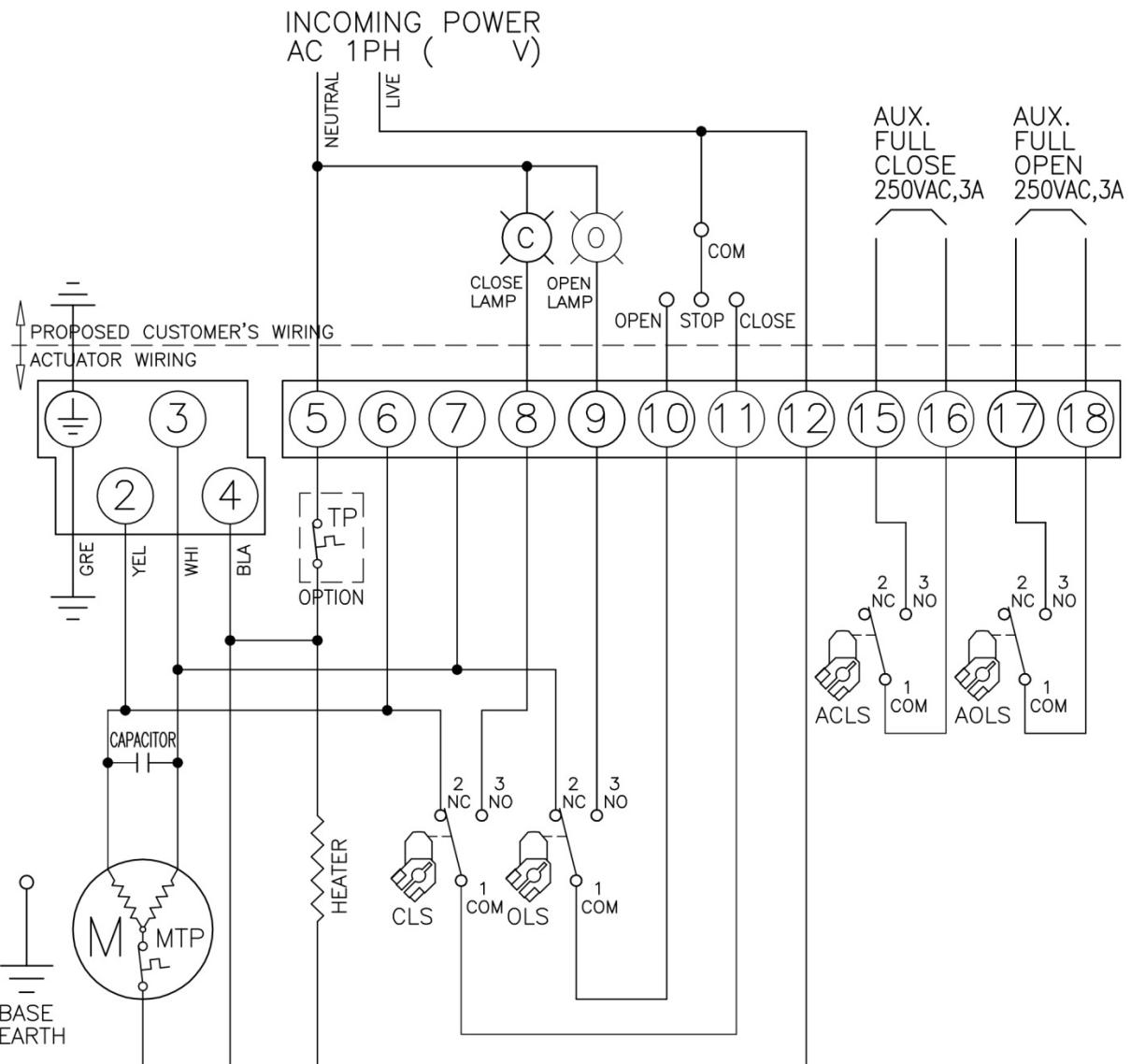
Radius Series EW-350 110VAC wiring



*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.



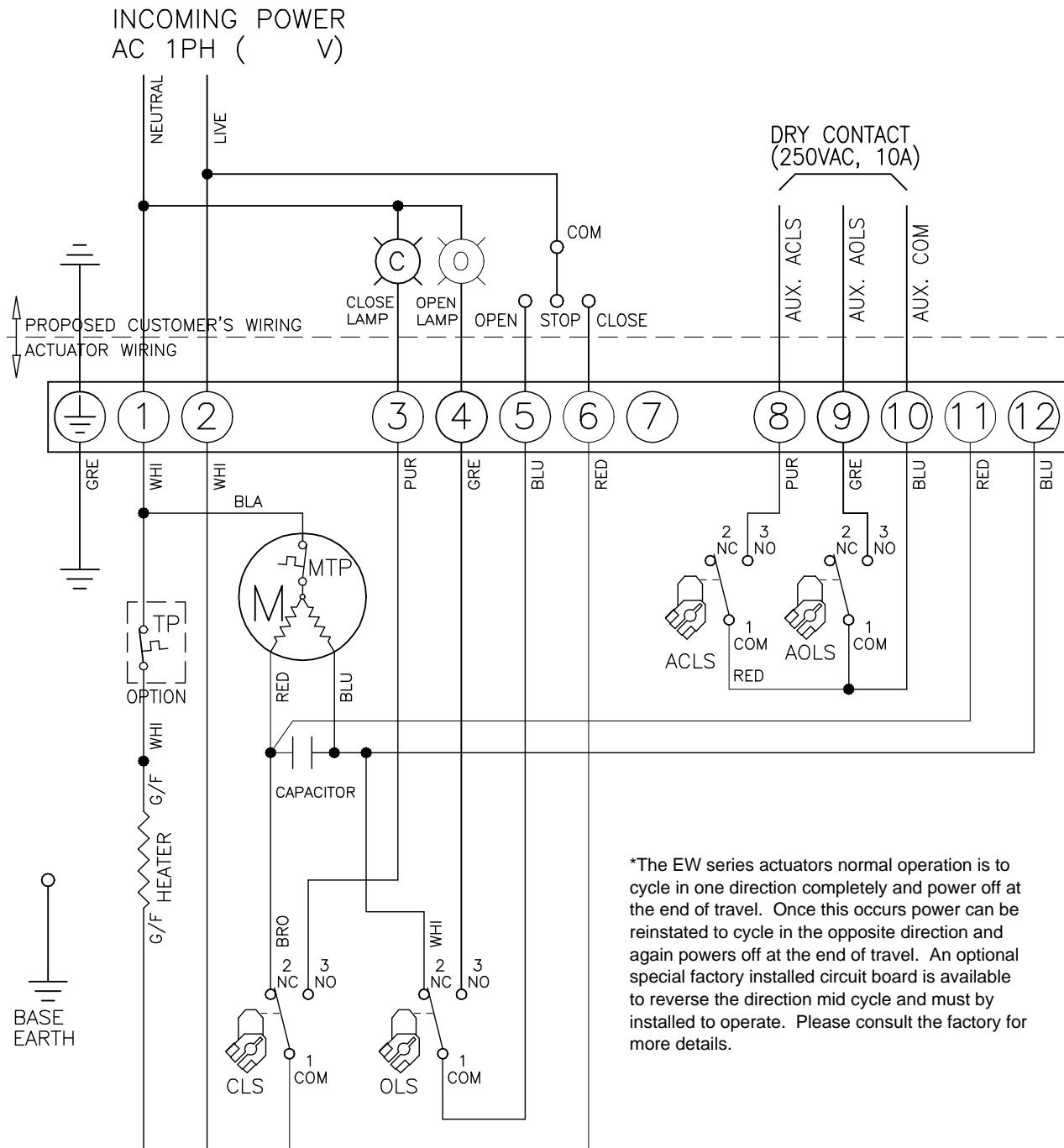
Radius Series EW-700 110VAC wiring



*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.



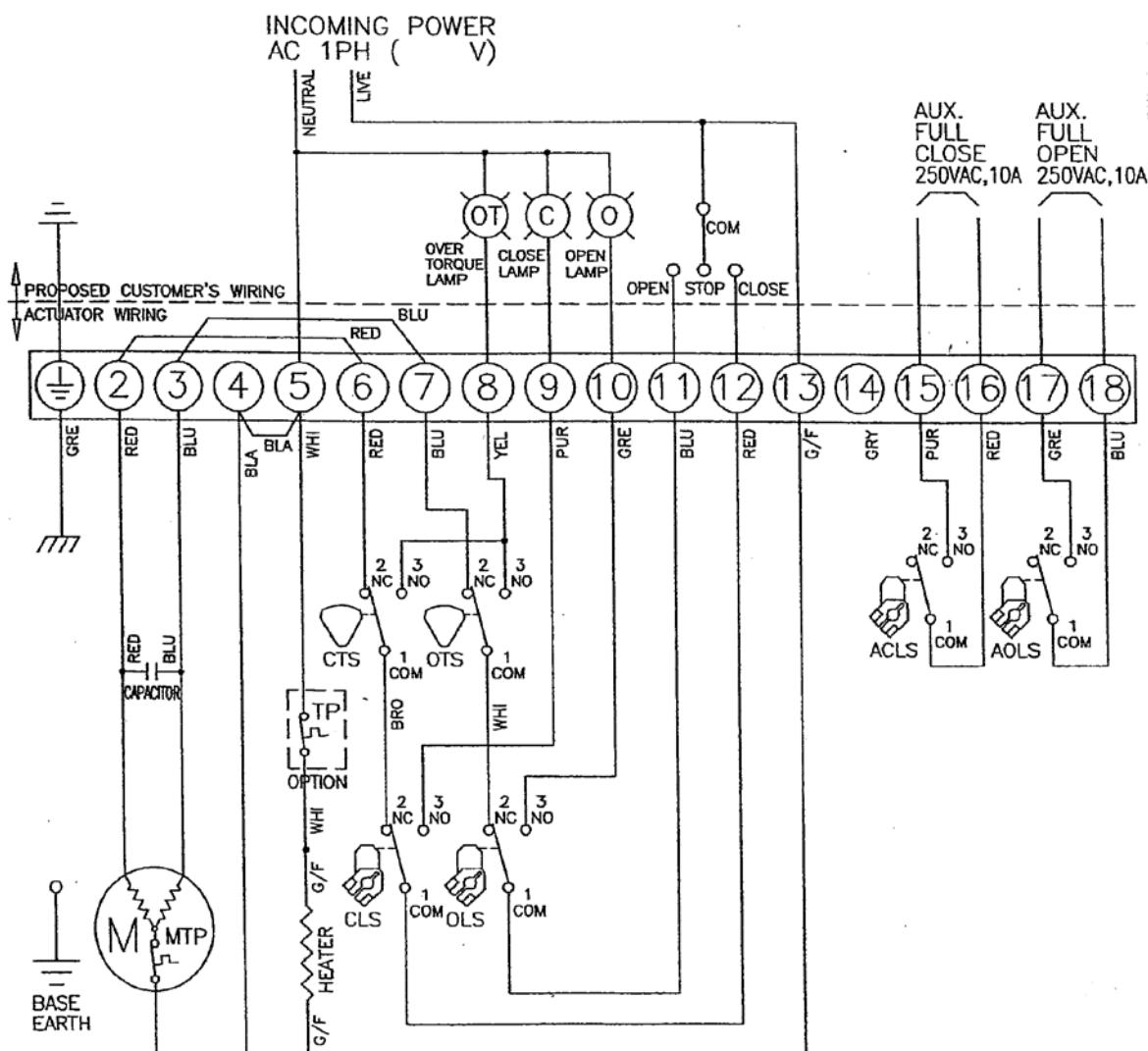
Radius Series EW-880 110VAC wiring



*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.



Radius Series EW-1400 through EW-26500 110VAC wiring



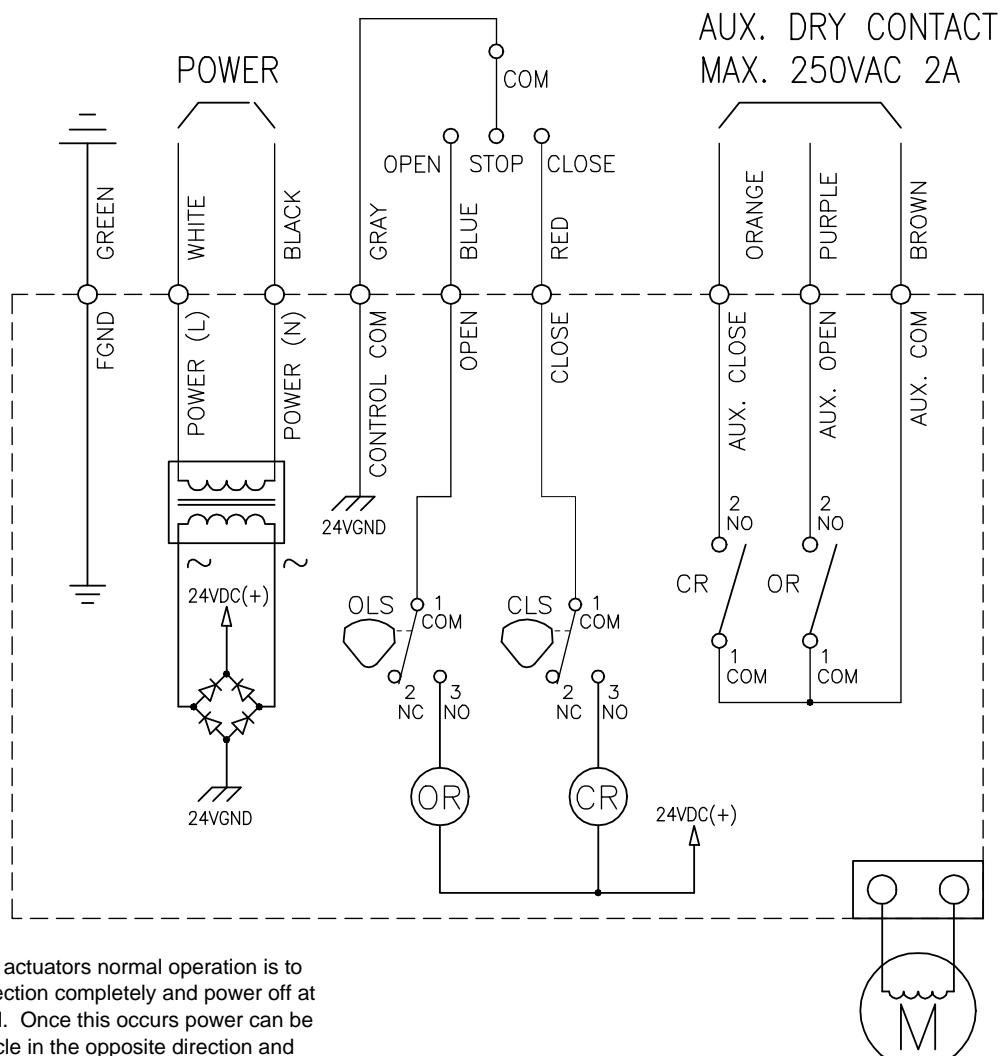
*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.



Radius Series EW-180 24VDC wiring

- AC 85V~265V
- AC 24V

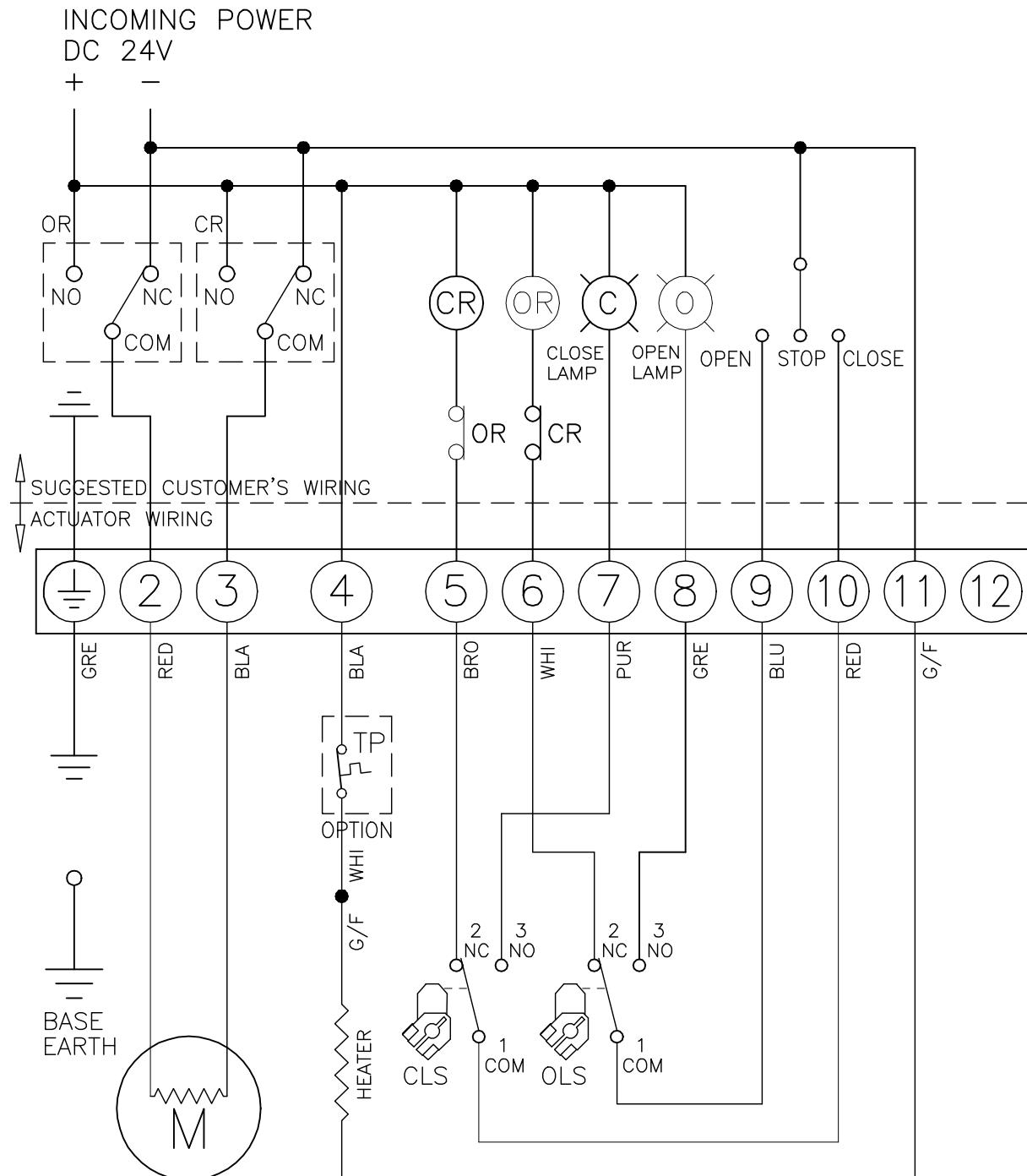
- DC 24V
 - WHITE (+)
 - BLACK (-)



*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.



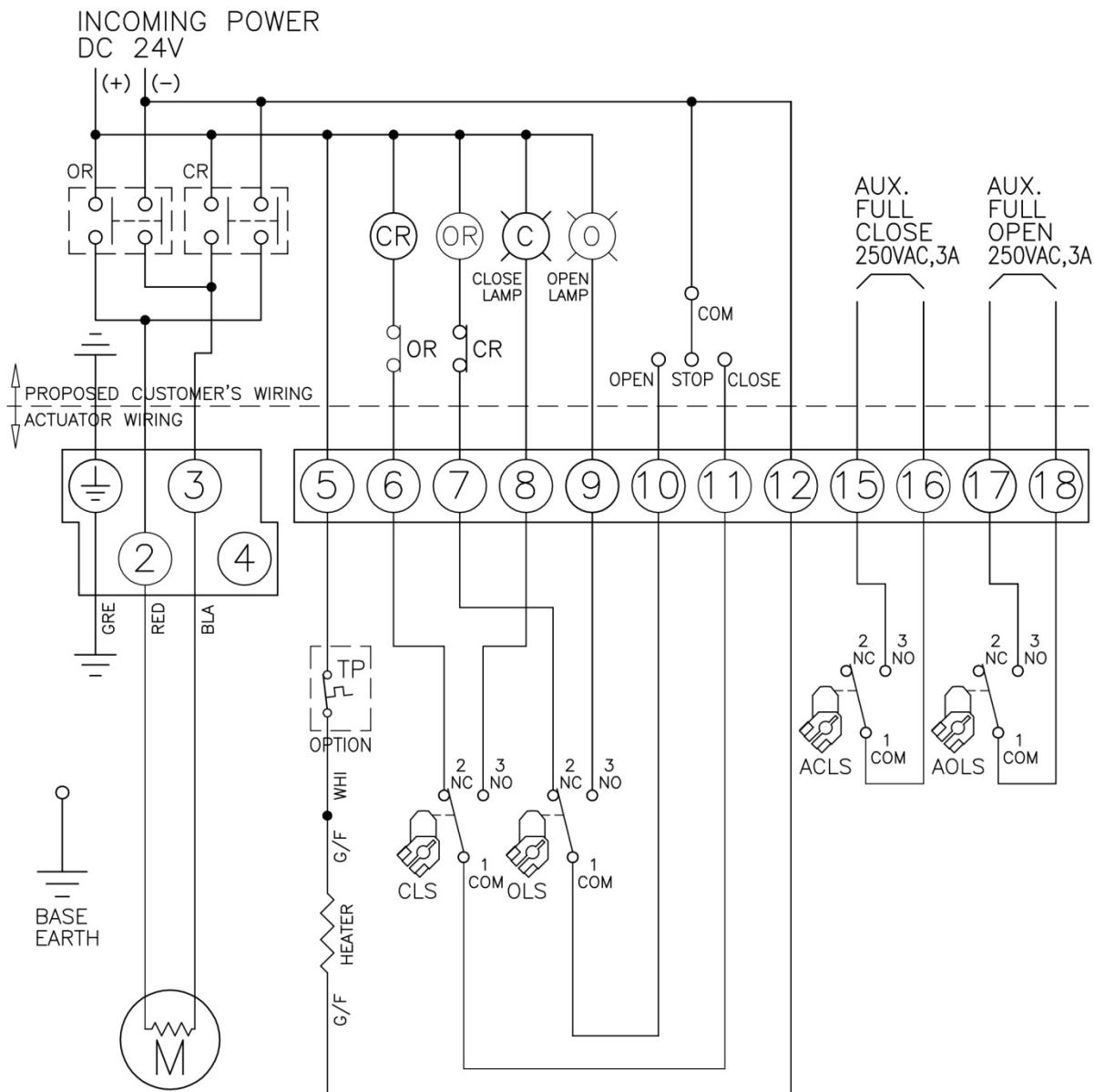
Radius Series EW-350 24VDC wiring



*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.



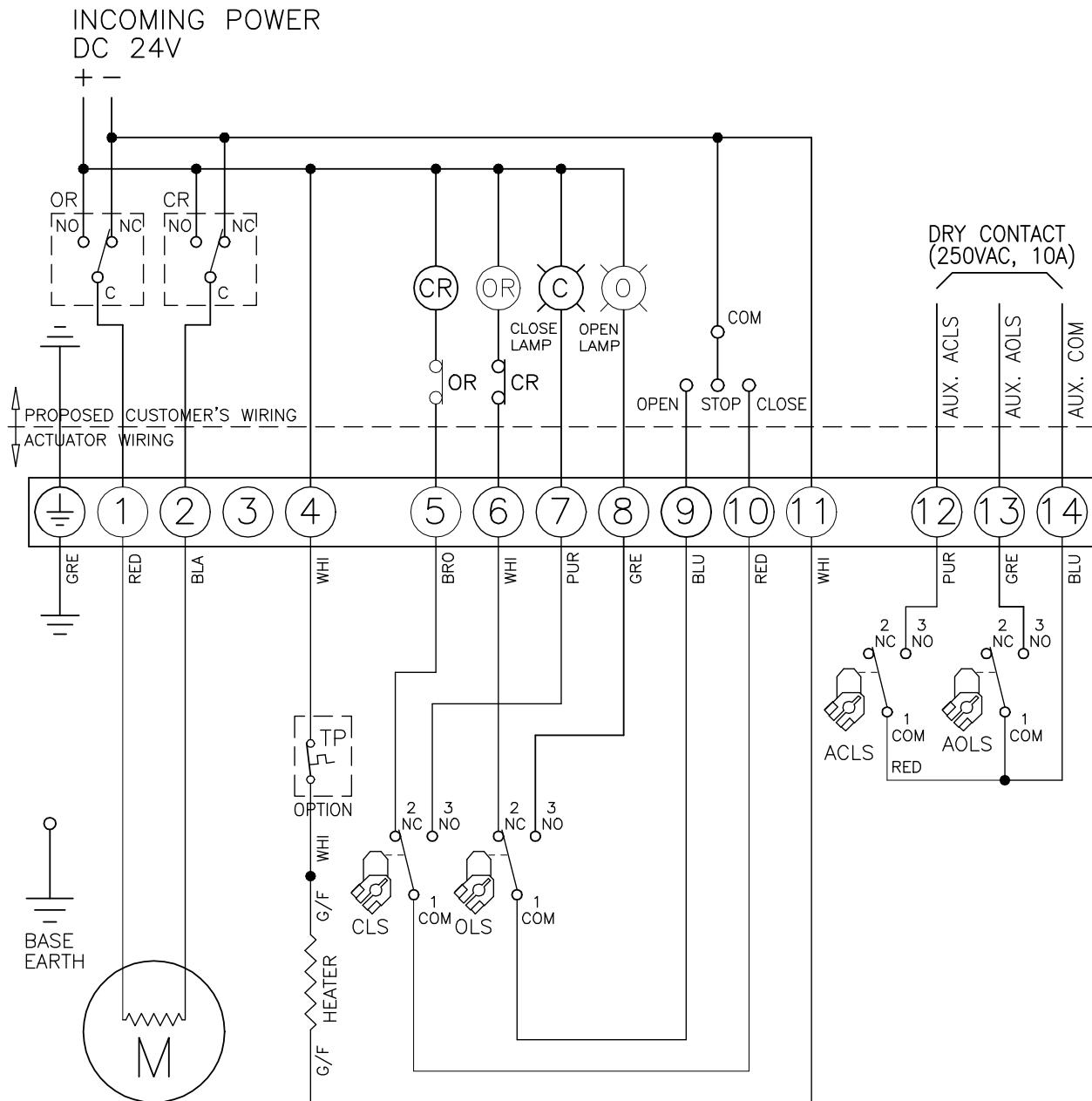
Radius Series EW-700 24VDC wiring



*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.



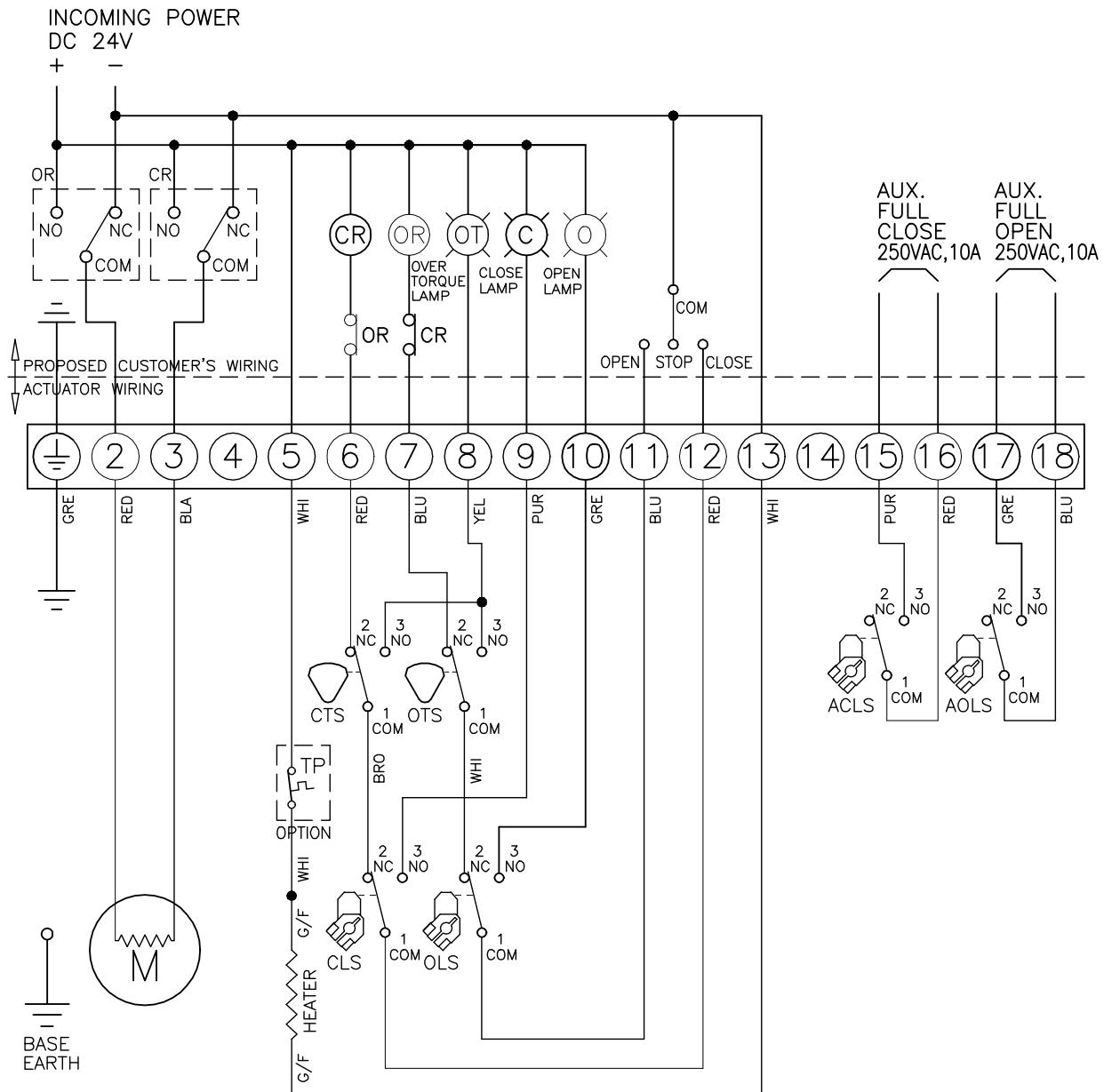
Radius Series EW-880 24VDC wiring



*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.



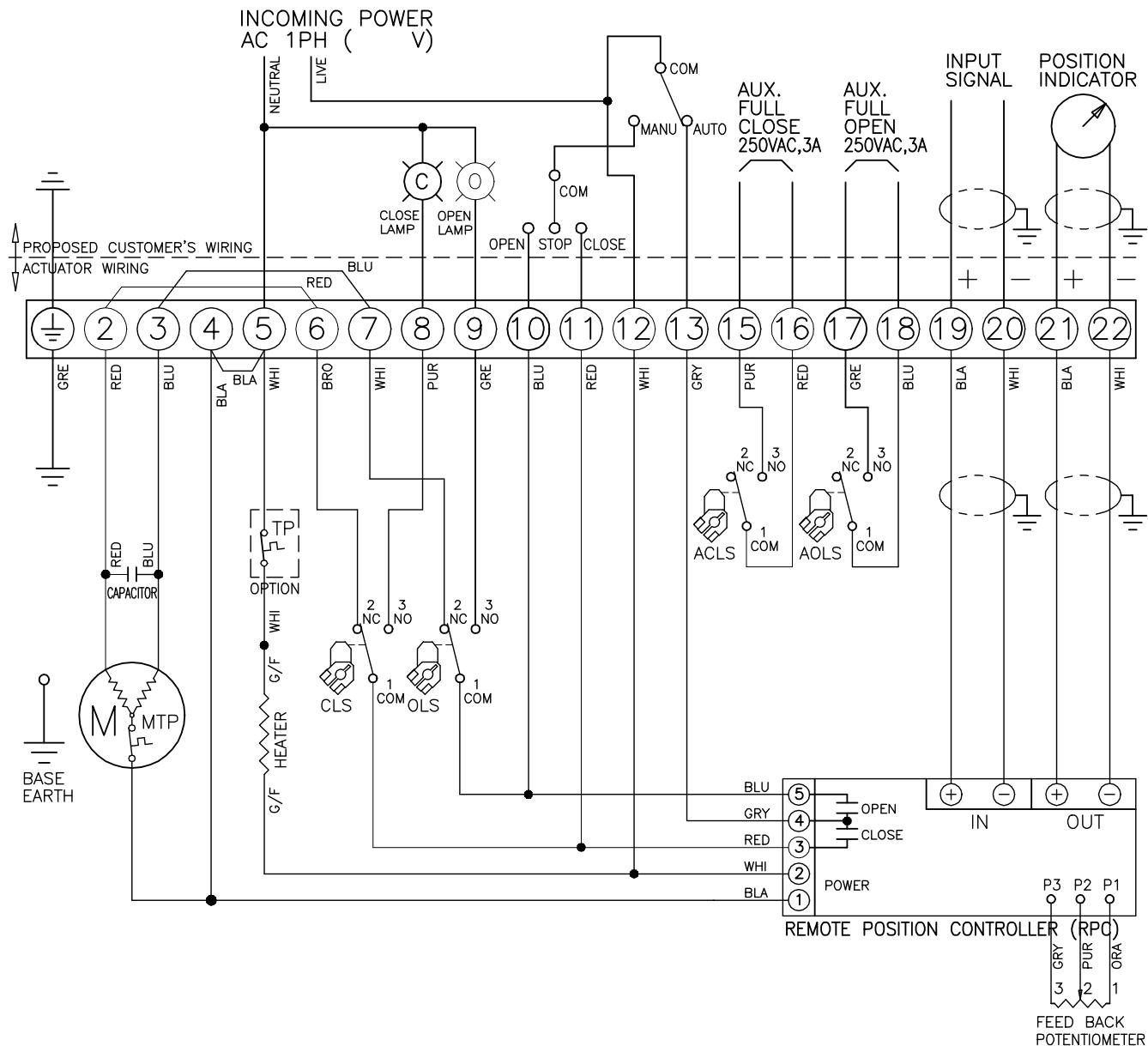
Radius Series EW-1400 through 26500 24VDC wiring



*The EW series actuators normal operation is to cycle in one direction completely and power off at the end of travel. Once this occurs power can be reinstated to cycle in the opposite direction and again powers off at the end of travel. An optional special factory installed circuit board is available to reverse the direction mid cycle and must be installed to operate. Please consult the factory for more details.

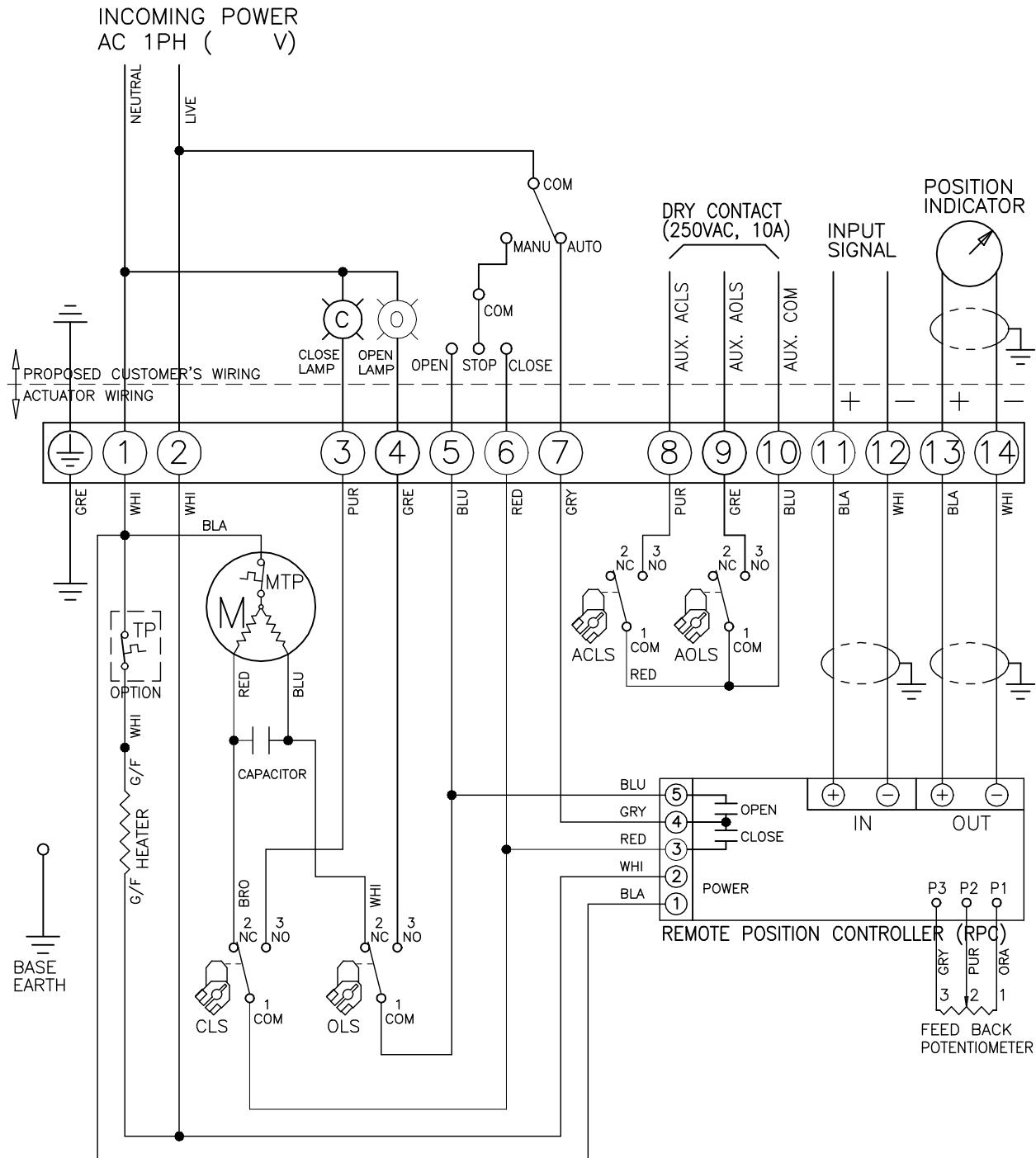


Radius Series EW-700-15-110VAC-RPC wiring



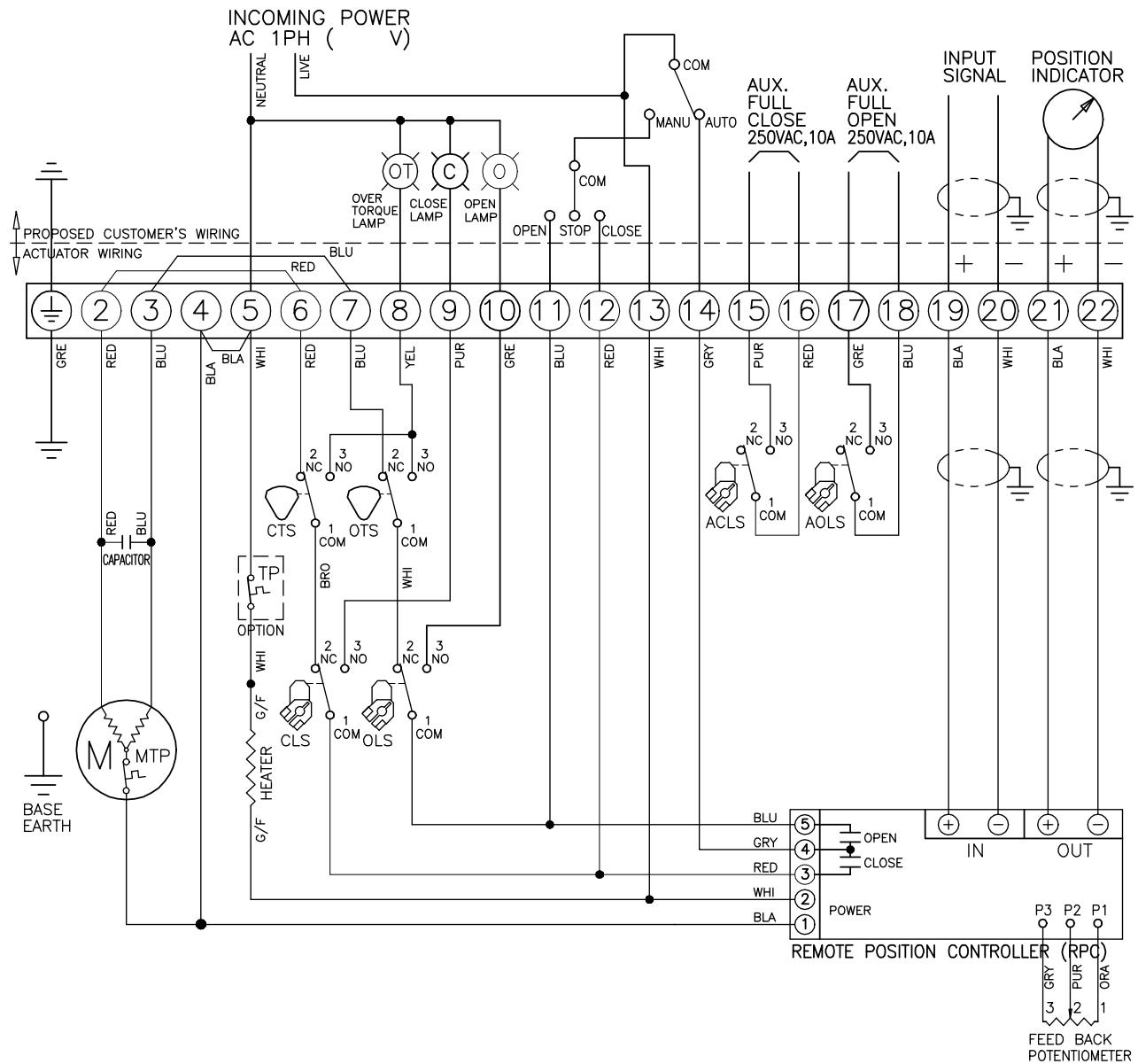


Radius Series EW-880-18-110VAC-RPC wiring



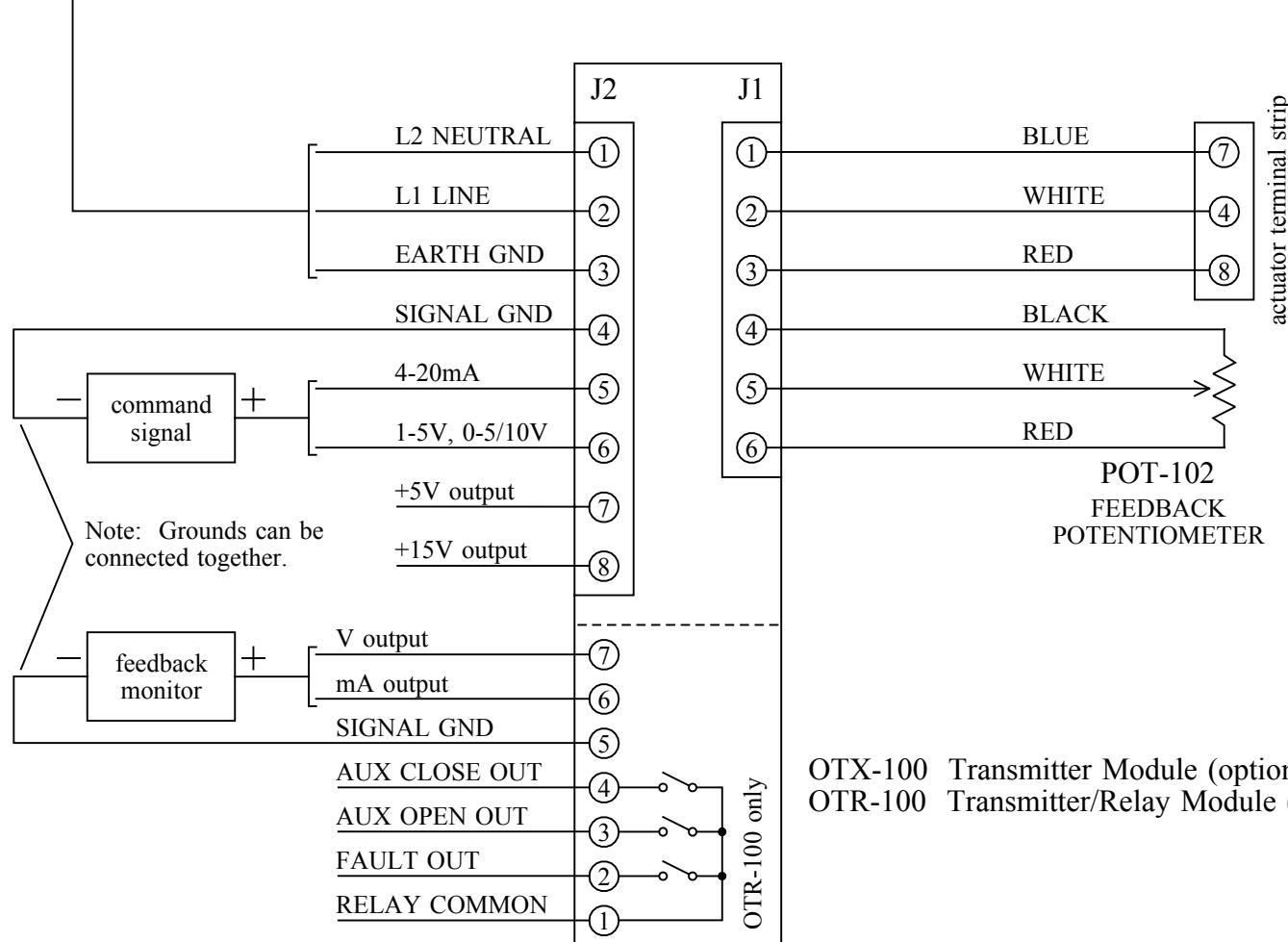


Radius Series EW-1400 through 26500 110VAC-RPC wiring



Radius EW350 WIRING DIAGRAM

117VAC DHC-100
234VAC DHC-100A



Direct acting or reverse acting is automatically set during calibration of close and open.

Radius reserves the right to make changes without prior notice

RADIUS LLC.

www.radius-eng.com

Drawing # EW-350-12-110VAC-DHC-100

Mounting Kit #

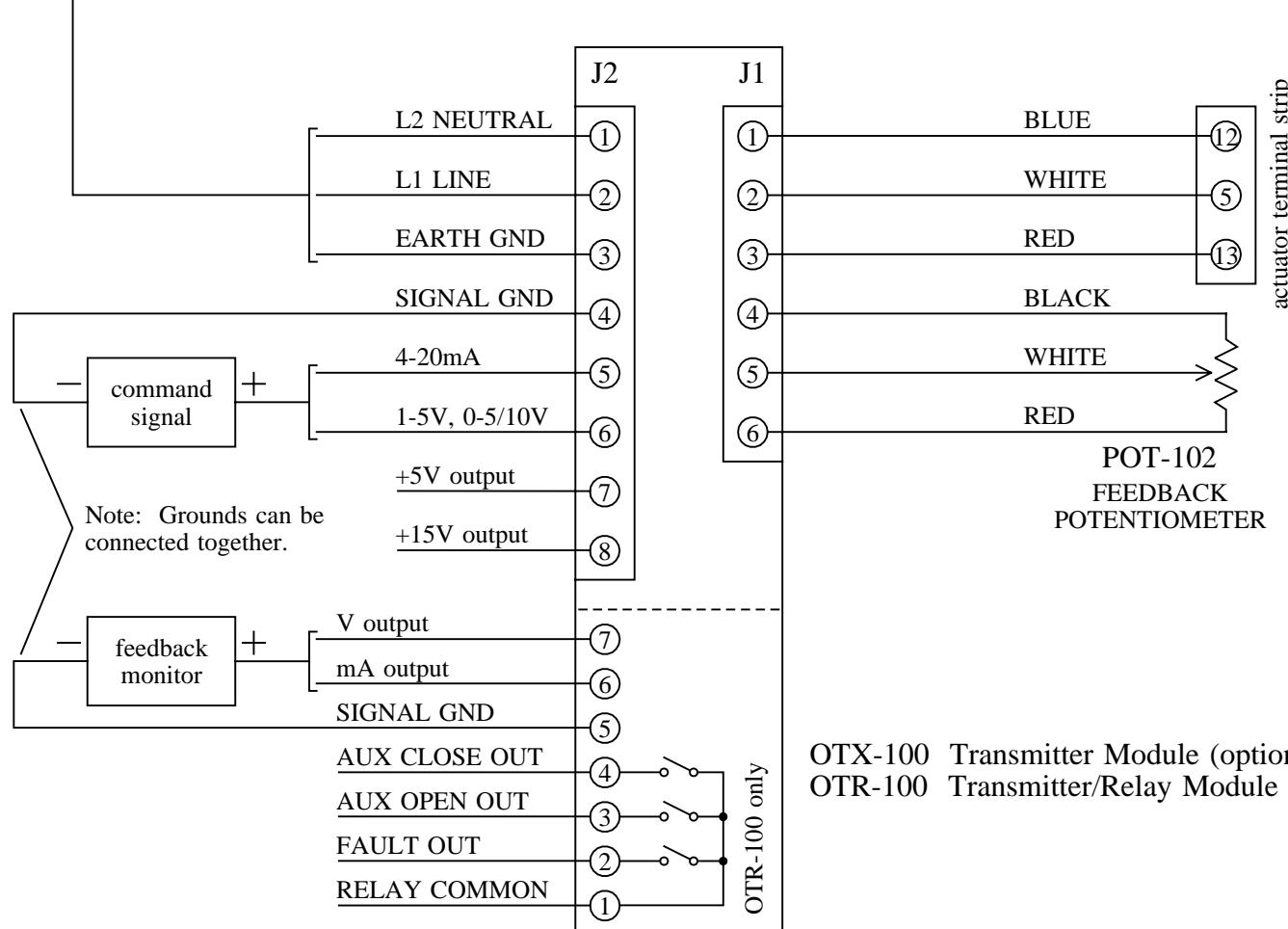
EW350 Control Box / MKT-150

Date: 02/11/2013 KM



Radius EW700 WIRING DIAGRAM

117VAC DHC-100
234VAC DHC-100A



Direct acting or reverse acting is automatically set during calibration of close and open.

Radius reserves the right to make changes without prior notice

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Drawing # EW-700-15-110VAC-DHC-100

Mounting Kit #

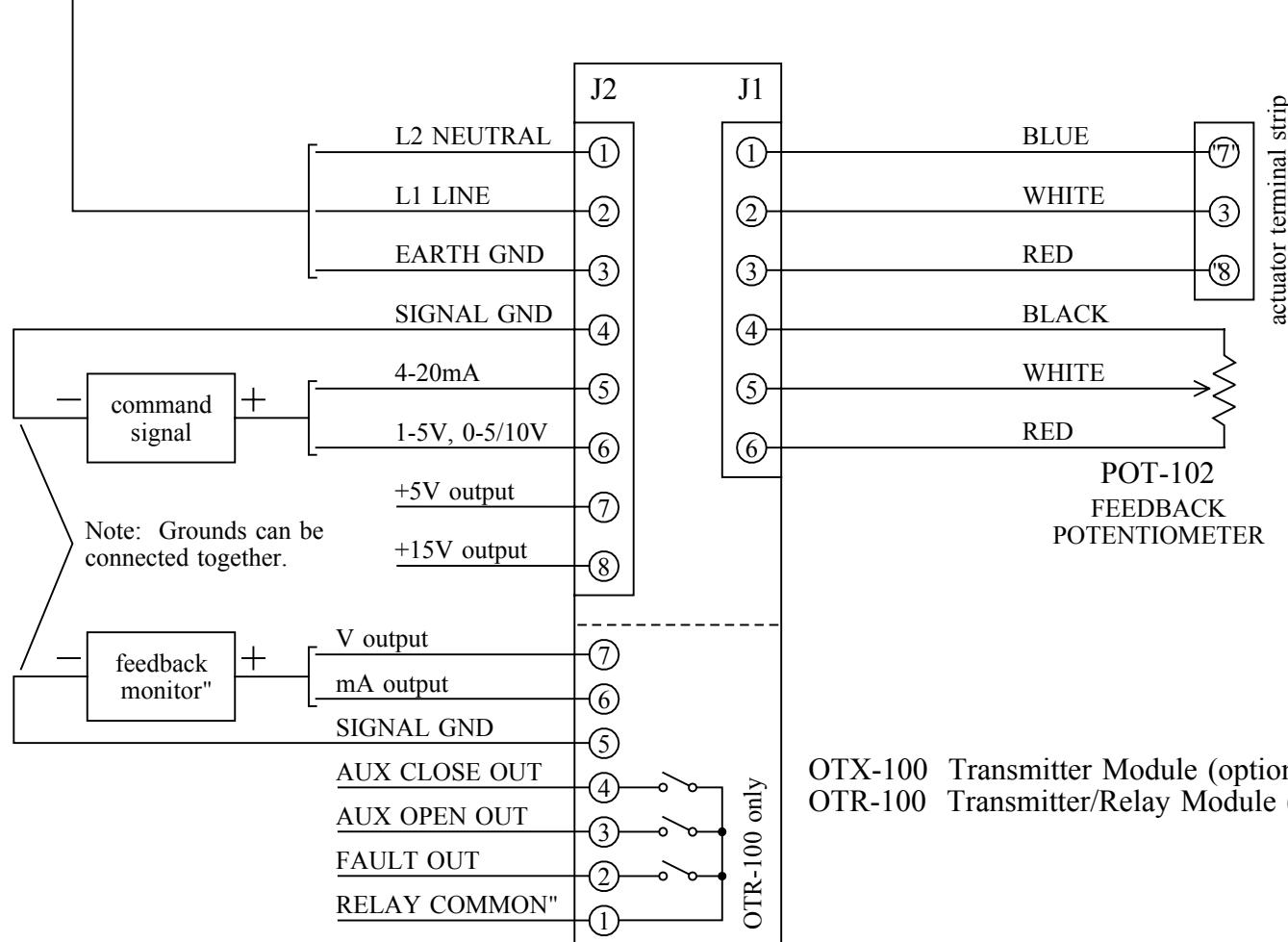
EW-700 Control Box / MKT-169

Date: 02/11/2013 KM



Radius EY : 2" WIRING DIAGRAM

117VAC DHC-100
234VAC DHC-100A



Direct acting or reverse acting is automatically set during calibration of close and open.

Radius reserves the right to make changes without prior notice

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Drawing # EW-880-18-110VAC-DHC-100

Mounting Kit #

EW-880 Control Box / MKT-149

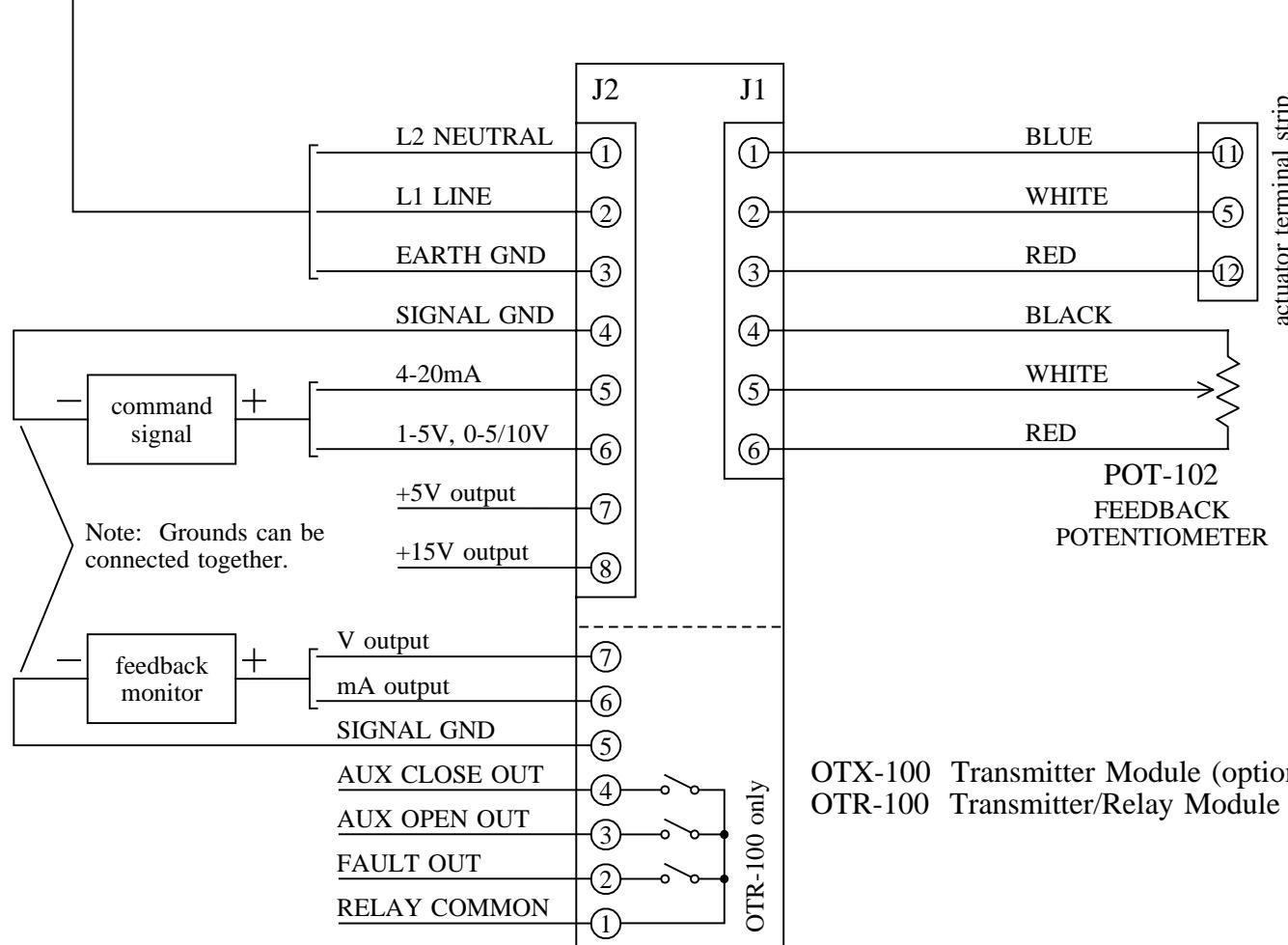
Date: 02/11/2013 KM



WIRING DIAGRAM

Radius EW1400 to EW26500 Actuators

117VAC DHC-100
234VAC DHC-100A



Direct acting or reverse acting is automatically set during calibration of close and open.

FOR HEATER connect L1 LINE #2 on J2 of the DHC-100 to EW-1400 actuator terminal #13

Radius reserves the right to make changes without prior notice

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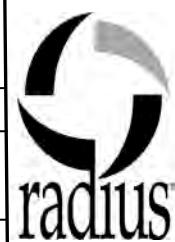
www.radius-eng.com

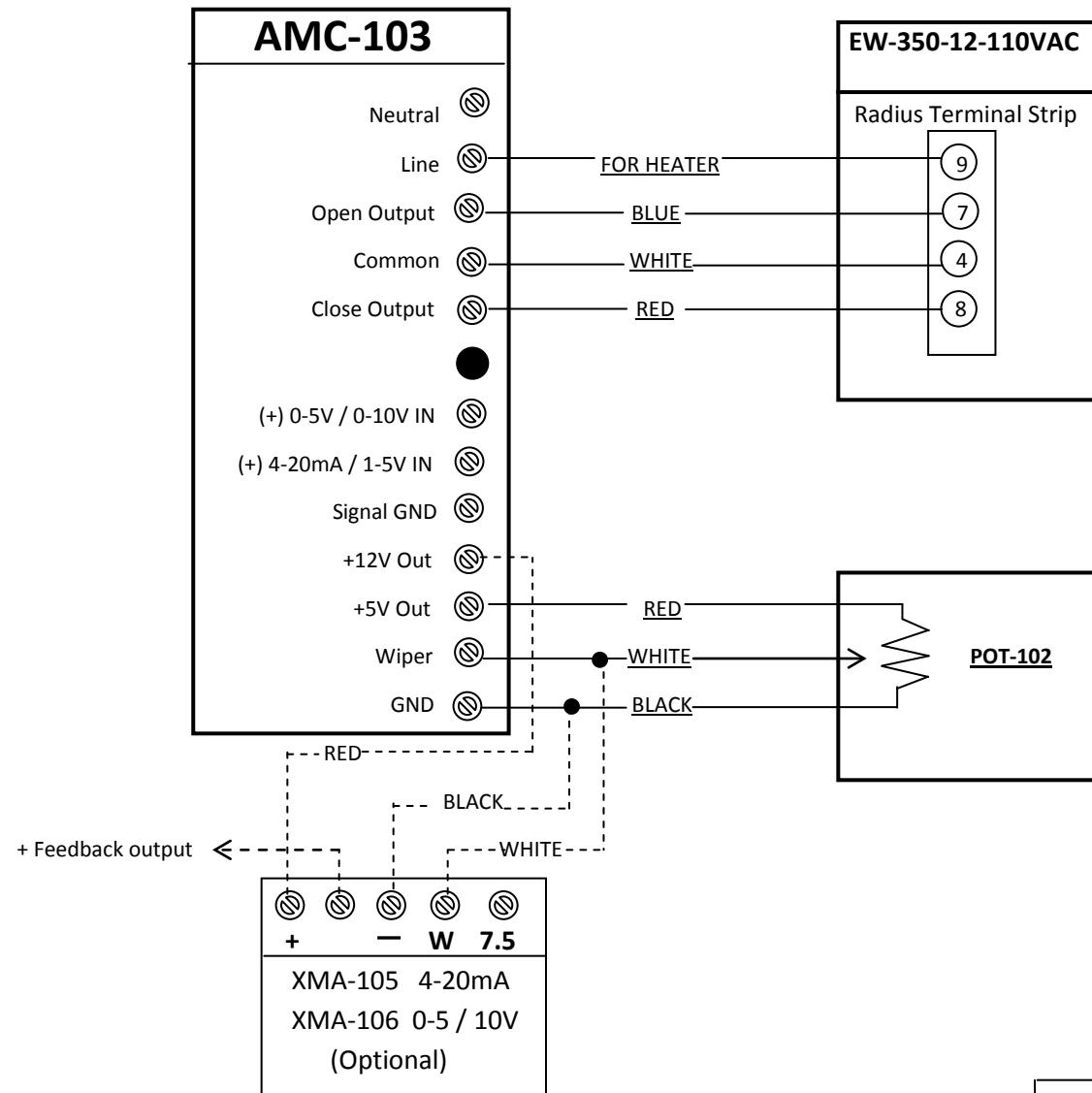
Drawing # EW-1400-26500-110VAC-DHC-100

Mounting Kit #

EW-1400 - 26500 Control Box / MKT-155

Date: 02/11/2013 KM





Reverse Acting

- 1) Reverse the feedback potentiometer wires connected to +5V Out and GND
- 2) Reverse the motor output wires connected to open and close outputs

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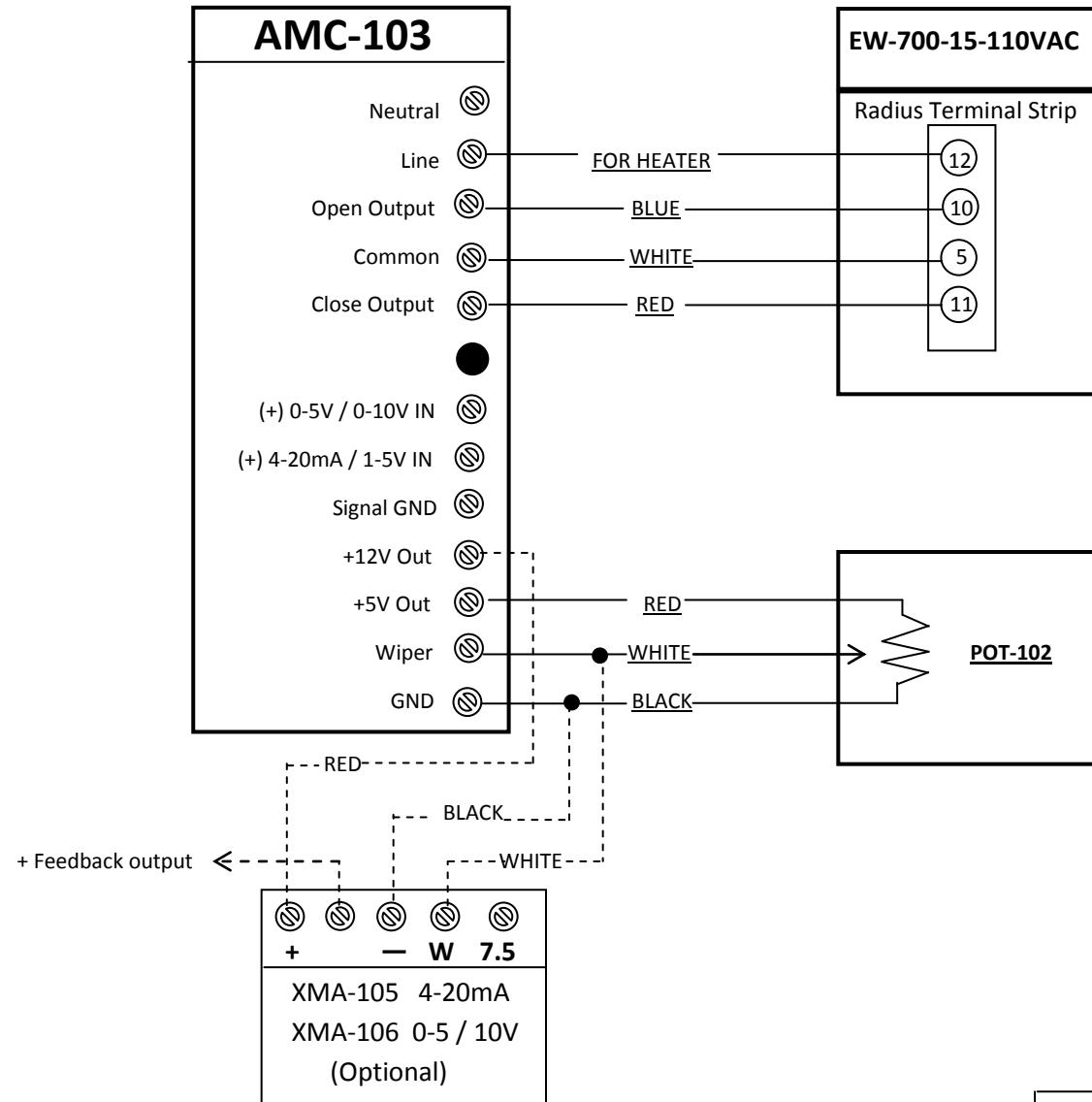
Drawing # **EW-350-12-110VAC-AMC-103**

Mounting Kit #

MKT-150 / R-EW350-EW700 Control Box

Date:02/11/2013 KM





Reverse Acting

- 1) Reverse the feedback potentiometer wires connected to +5V Out and GND
- 2) Reverse the motor output wires connected to open and close outputs

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RADIUS LLC.

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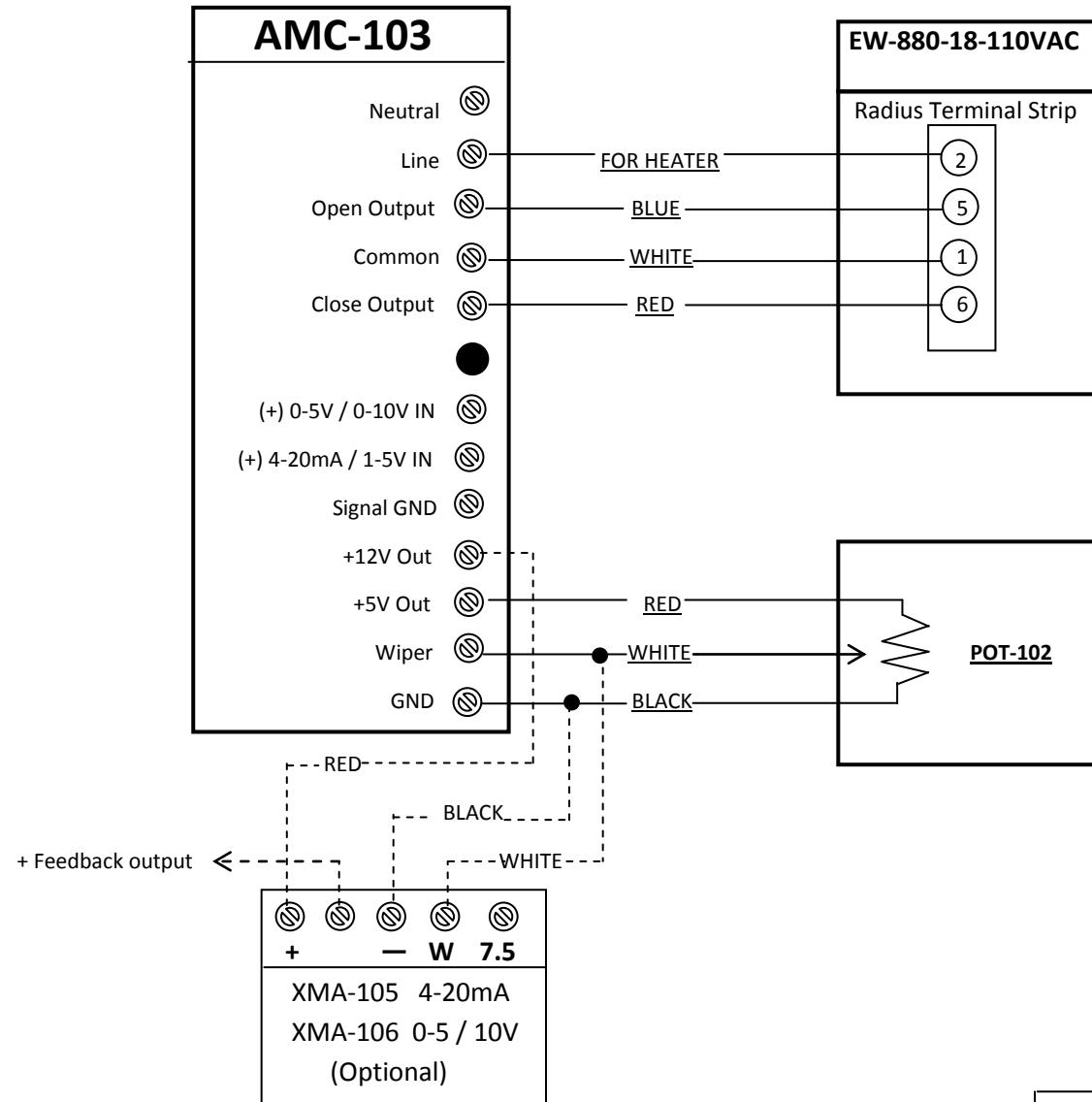
Drawing # EW-700-15-110VAC-AMC-103

Mounting Kit #

MKT-169 / R-EW-350-EW-700 Control Box

Date: 02/11/13 KM





Reverse Acting

- 1) Reverse the feedback potentiometer wires connected to +5V Out and GND
- 2) Reverse the motor output wires connected to open and close outputs

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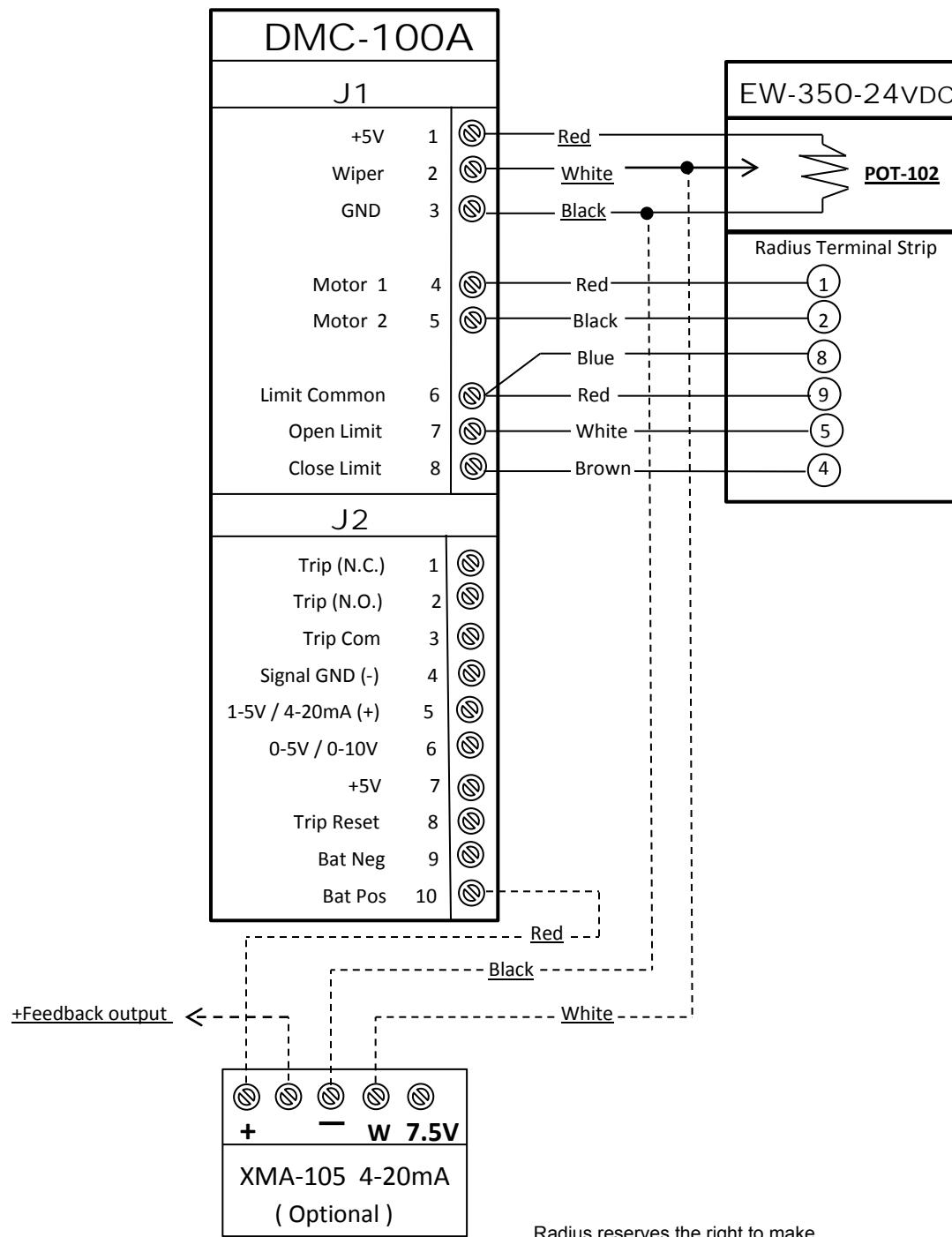
Drawing # **EW-880-18-110VAC-AMC-103**

Mounting Kit #

MKT-149

Date: 02/11/13 KM





Reverse Acting

- 1) Reverse the feedback potentiometer wires connected to +5V Out and GND.
- 2) Reverse the motor 1 and motor 2 wires.
- 3) Reverse the Open limit and Close limit wires.

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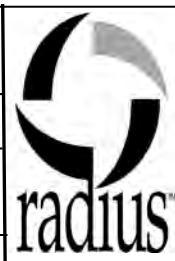
www.radius-eng.com

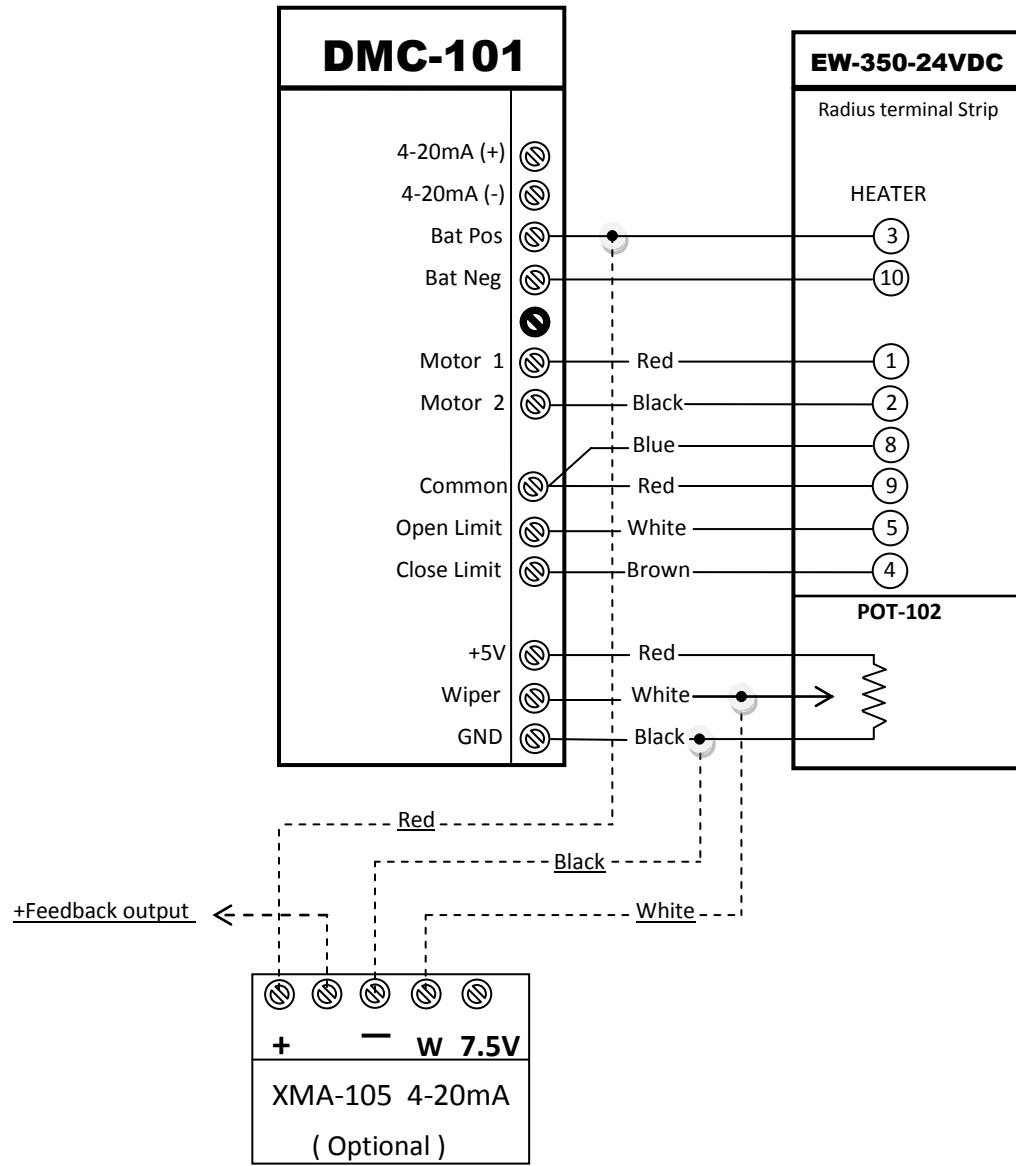
Drawing #R-EW-350-12-24VDC-DMC-100A

Mounting Kit #

R-EW350/EW700-Control Box / MKT-150

Date:05/10/11 KM





Reverse Acting

- 1) Reverse the feedback potentiometer wires connected to +5V Out and GND.
- 2) Reverse the motor 1 and motor 2 wirers.
- 3) Reverse the Open limit and Close limit wirers.

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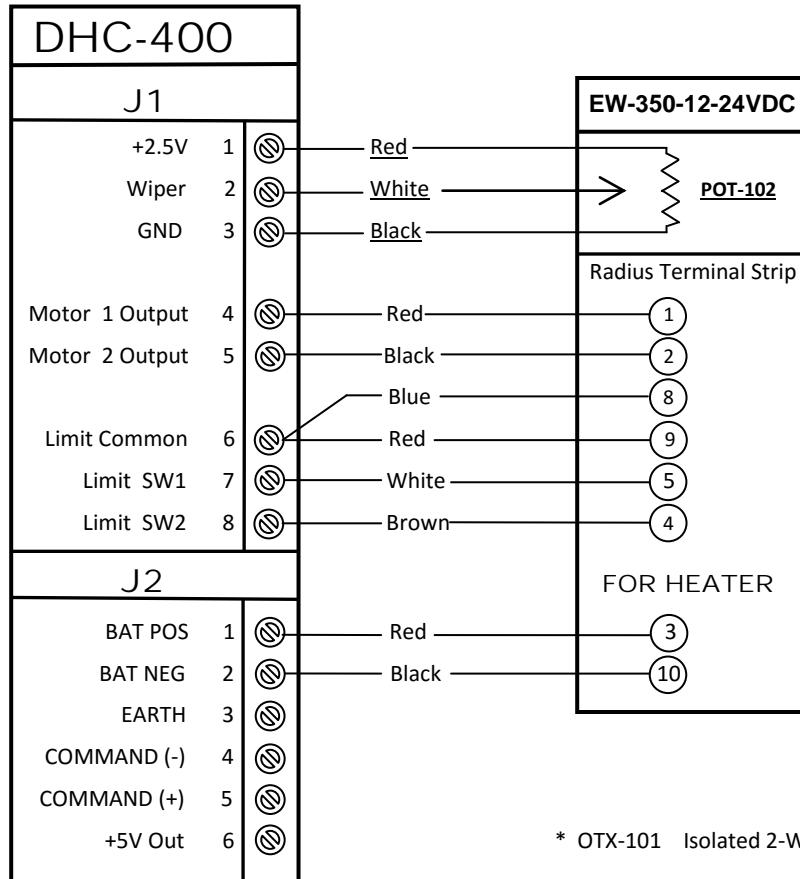
www.radius-eng.com

Drawing # R-EW-350-12-24VDC-DMC-101

Mounting Kit # R-EW MOD Mounting Kit & MKT-150

Date: 03/13/13





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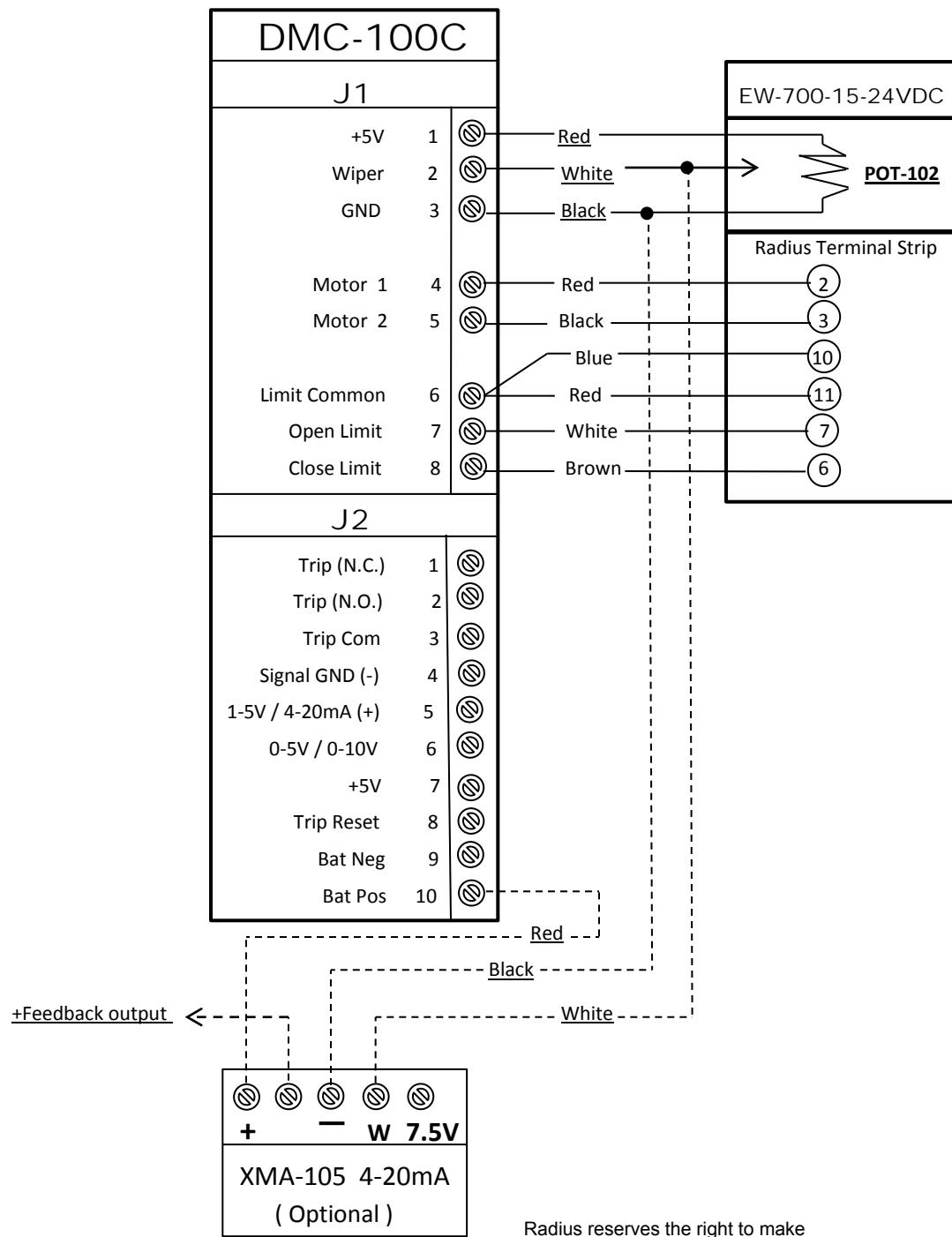
www.radius-eng.com

Drawing # EW-350-12-24VDC-DHC-400

Mounting Kit # R-EW350/700-RPC Mounting Kit & MKT-150

Date:08/23/13 KM





Reverse Acting

- 1) Reverse the feedback potentiometer wires connected to +5V Out and GND.
- 2) Reverse the motor 1 and motor 2 wires.
- 3) Reverse the Open limit and Close limit wires.

Radius reserves the right to make changes without prior notice

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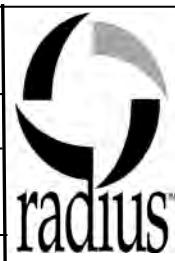
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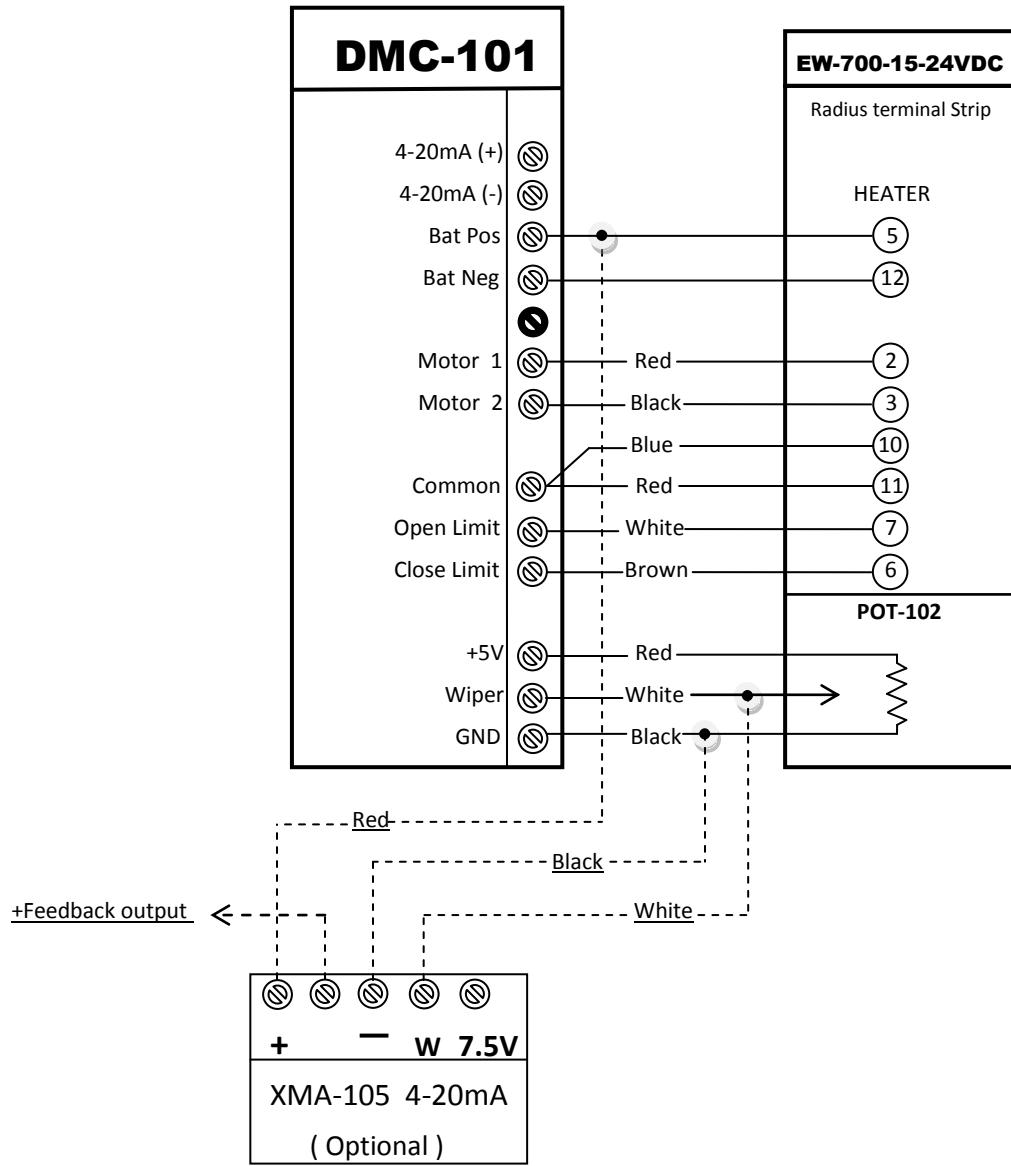
Drawing # EW-700-15-24VDC-DMC-100C

Mounting Kit #

R-EW-350/EW-700-Control Box and MKT-169

Date: 03/08/11 KM





Reverse Acting

- 1) Reverse the feedback potentiometer wires connected to +5V Out and GND.
- 2) Reverse the motor 1 and motor 2 wirers.
- 3) Reverse the Open limit and Close limit wirers.

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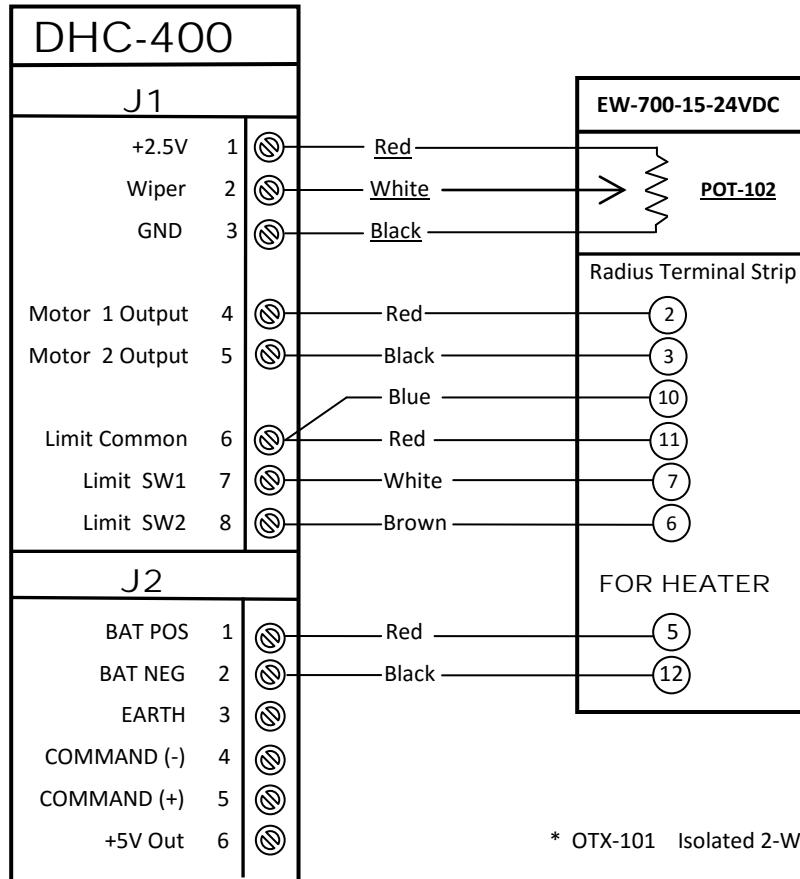
www.radius-eng.com

Drawing # R-EW-700-15-24VDC-DMC-101

Mounting Kit # R-EW MOD Mounting Kit & MKT-169

Date: 03/13/13





RADIUS LLC.

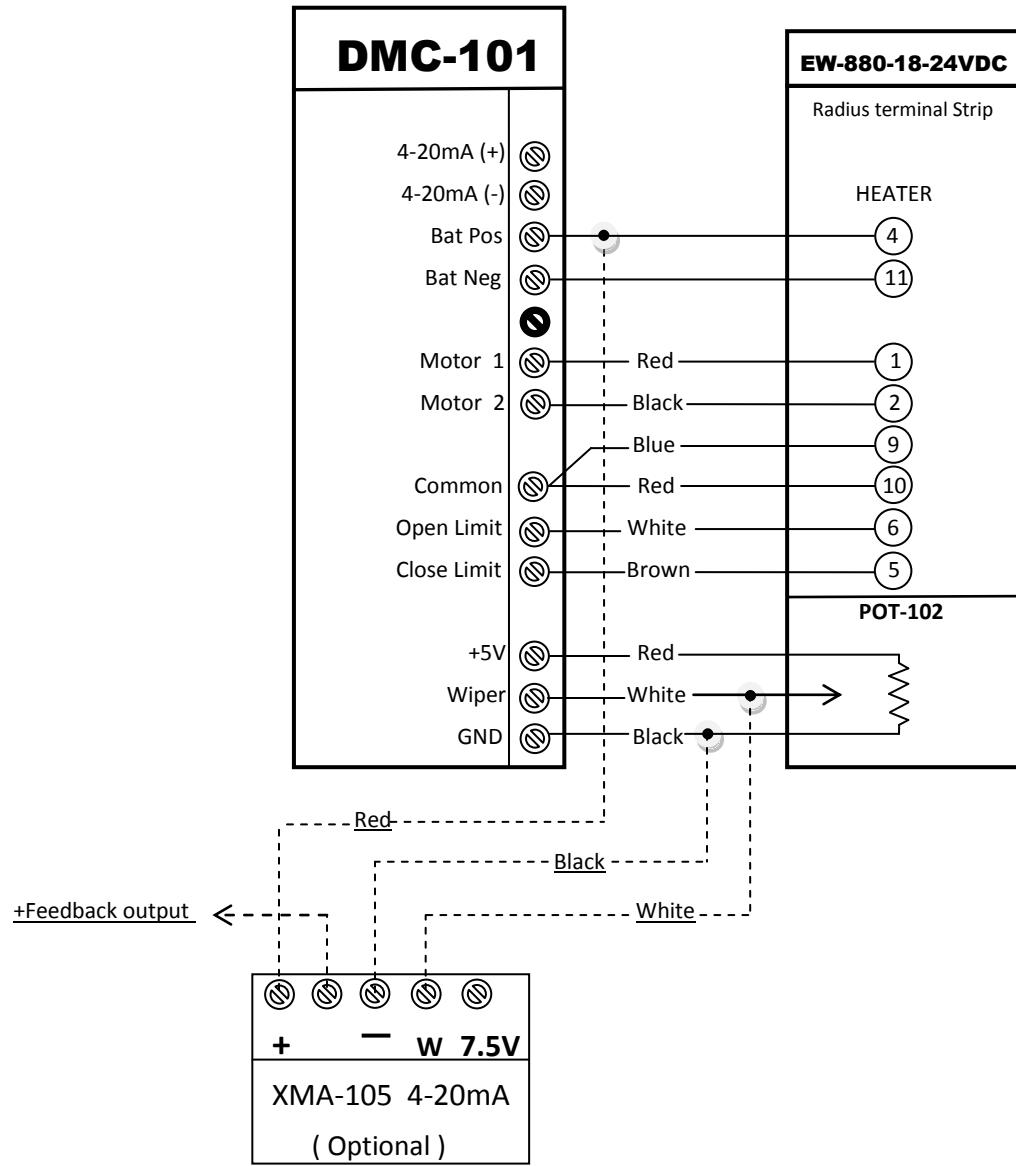
www.radius-eng.com

Drawing # EW-700-15-24VDC-DHC-400

Mounting Kit # R-EW350/700-RPC Mounting Kit & MKT-169

Date:08/23/13 KM





Reverse Acting

- 1) Reverse the feedback potentiometer wires connected to +5V Out and GND.
- 2) Reverse the motor 1 and motor 2 wirers.
- 3) Reverse the Open limit and Close limit wirers.

Radius reserves the right to make changes without prior notice

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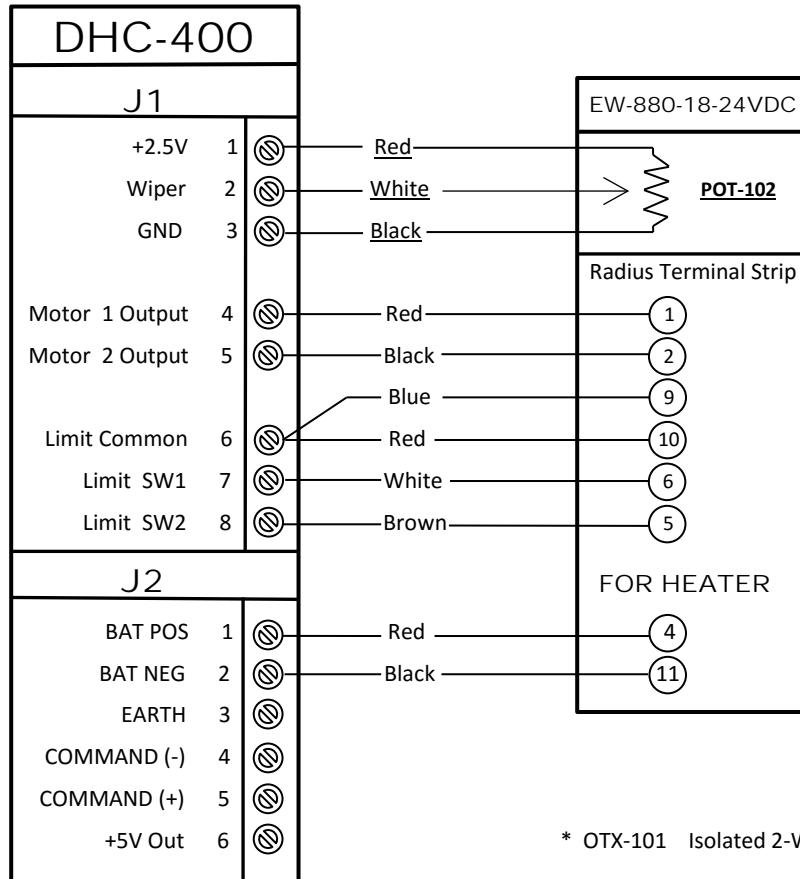
www.radius-eng.com

Drawing # R-EW-880-18-24VDC-DMC-101

Mounting Kit # MKT-149

Date: 03/13/13





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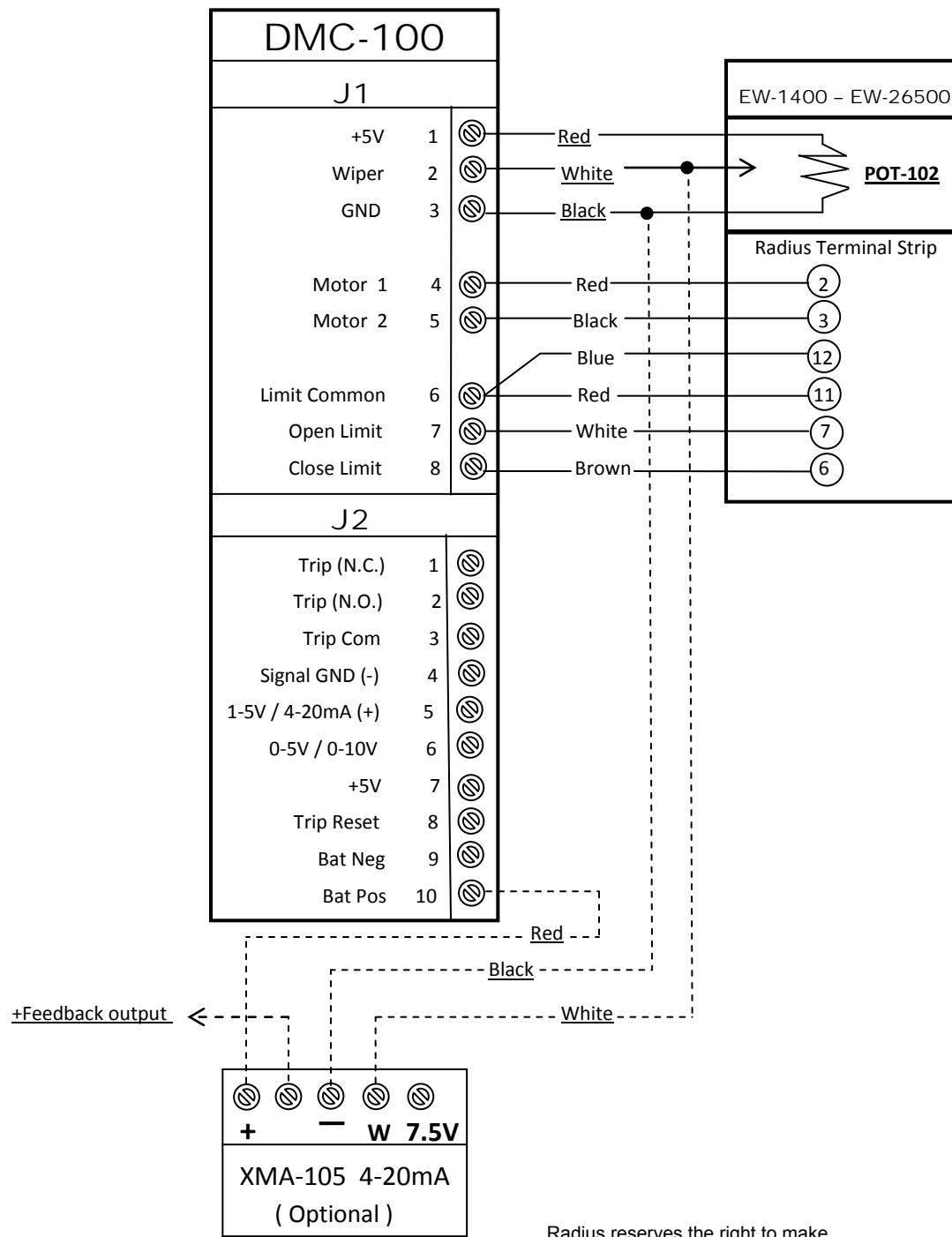
www.radius-eng.com

Drawing # EW-880-24VDC-DHC-400

Mounting Kit # MKT-149

Date:08/23/13 KM





Reverse Acting

- 1) Reverse the feedback potentiometer wires connected to +5V Out and GND.
- 2) Reverse the motor 1 and motor 2 wires.
- 3) Reverse the Open limit and Close limit wires.

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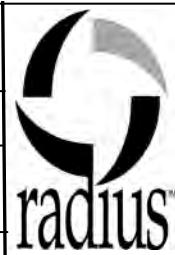
www.radius-eng.com

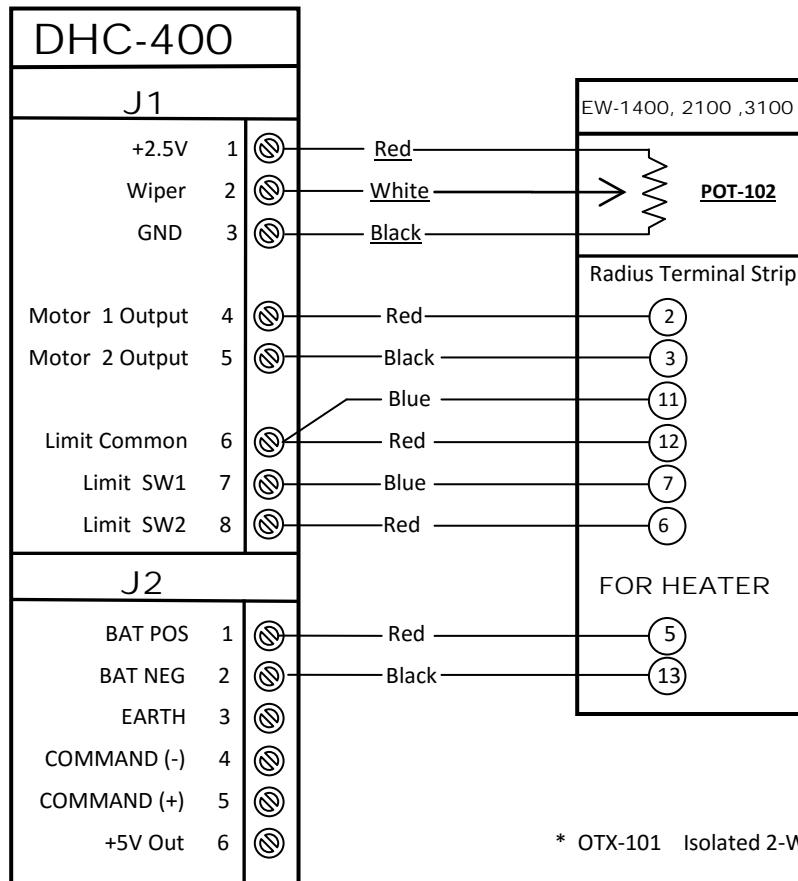
Drawing # R-EW-1400 thru. EW-26500 -24VDC-DMC-100

Mounting Kit #

MKT-155

Date:10/25/11





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Drawing # EW-1400, 2100, 3100 24VDC-DHC-400

Mounting Kit # MKT-155

Date:08/23/13 KM

