

**Installation and Wiring Instructions  
for  
Eclipsis Series Motor Controls  
120V and 277V**

**Models:****120V:** PFC-5, PFC-5-3W**277V:** PFC-527, PFC-527-3W**Load:****120V:** 5.0 amps**277V:** 2.2 amps**CAUTION:**

For personal safety and to prevent damage to Motor Speed / Fan Control from accidental shorting, turn *OFF* power at main breaker prior to installing unit. As a further precaution, the control switch should be rotated counter clockwise to full *OFF* position.

**NOTES:** HUNT Motor Speed / Fan Controls are designed to be used with most split capacitor (PSC) and shaded pole motors.

1. If the Motor Speed / Fan Control is used on a three phase system - a separate neutral must be run from each phase leg.
2. Due to electromagnetic radiation produced by all solid state Motor Speed / Fan Control, the loads, controls, and connecting wires should be located as far as possible from radios, the intercom units or public address systems (six feet minimum recommended distance).
3. When installing models PFC-5-3W or PFC-527-3W, complete the three-way circuit with a standard 3-way switch. Never attempt to use two controls in the same circuit.

**HUNT Control Systems, Inc., Inc.**

200 Rome Court  
Fort Collins, CO 80524  
U.S.A.

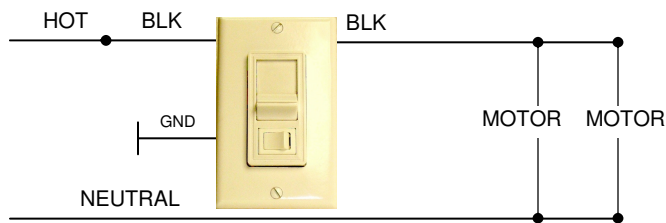
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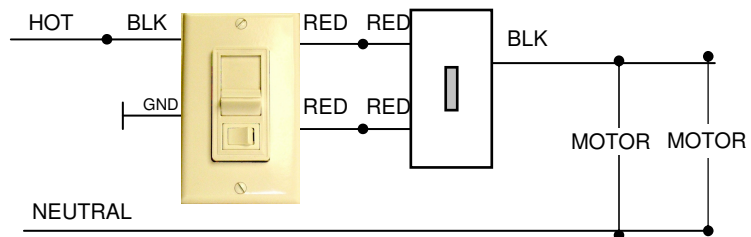
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## Wiring Diagrams for Eclipsis Series Motor Controls 120V and 277V

### Single Pole Wiring



### Three Way Wiring



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## Installation and Wiring Instructions for Motor Controls 120V, 60Hz

**Models:****A-Line Series:** MTA-6, MTA-6-3W, MTA-8, MTA-12**Accent Series:** ASMTA-6, ASMTA-6-3W, ASMTA-8, ASMTA-12**Omega Series:** SCMTA-6, SCMTA-8, SCMTA-12**Load:**

MTA-6, MTA-6-3W, ASMTA-6, ASMTA-6-3W, & SCMTA-6:	6.0 amps
MTA-8, ASMTA-8, & SCMTA-8:	8.3 amps
MTA-12, ASMTA-12, & SCMTA-12:	12.5 amps

**CAUTION:**

For personal safety and to prevent damage to Motor Speed / Fan Control from accidental shorting, turn *OFF* power at main breaker prior to installing unit. As a further precaution, the control switch should be rotated counter clockwise to full *OFF* position.

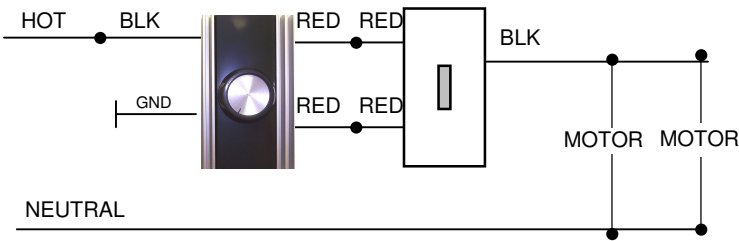
**NOTES:** HUNT Motor Speed / Fan Controls are designed to be used with most 120 volt split capacitor (PSC) and shaded pole motors.

1. If the Motor Speed / Fan Control is used on a 120/208 volt three phase system - a separate neutral must be run from each phase leg.
2. Fins must be mounted in the vertical position and must not be recessed into the wall. When stacking controls or mounting one above the other, allow a minimum of three inches of clear wall space between the upper and lower finned plates. The aluminum fins act as a heat sink to remove heat created by the solid state components and may become warm to the touch when the Motor Speed / Fan Control is operated at its maximum rated load. This is normal and does not indicate a malfunction. Removal of fins reduces capacity and Motor Speed / Fan Control must be derated per "Ganging" information on back.
3. Due to electromagnetic radiation produced by all solid state Motor Speed / Fan Control, the loads, controls, and connecting wires should be located as far as possible from radios, the intercom units or public address systems (six feet minimum recommended distance).
4. A-Line Series Motor Speed / Fan Controls include a snap-on, decorative black plastic face plate panel. Accent and Omega Series Motor Speed / Fan Controls include a full wrap-around extruded aluminum decorative snap-on face plate in standard ivory color or optional white.
5. When installing models MTA-6-3W or ASMTA-6-3W, complete the three-way circuit with a standard 3-way switch. Never attempt to use two controls in the same circuit.

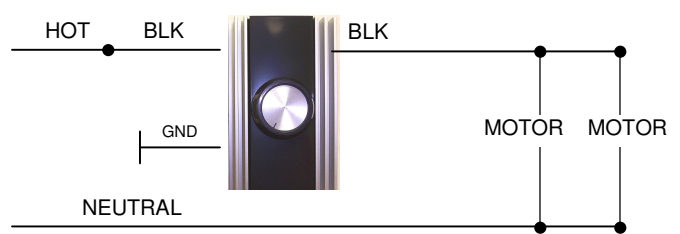
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## Wiring Diagrams and Ganging Information for Motor Controls 120V

### Three Way Wiring

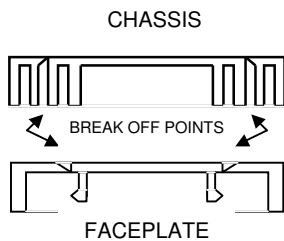


### Single Pole Wiring



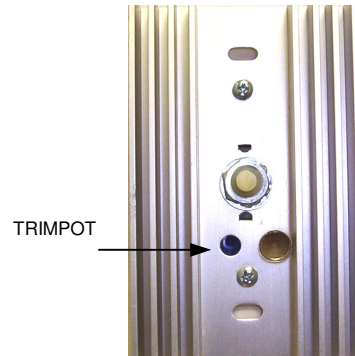
### GANGING:

A-Line, Accent and Omega Series controls may be ganged in any combination. Refer to tables for wall box requirements and derating. When ganging two controls, break off inside fins of each dimmer. When ganging three or more dimmers, break off both sides of interior dimmers, but only inside fins of end dimmers. Break off aluminum fins and faceplate as shown.



### ADJUSTMENT OF LOW-END R.P.M. MINIMUM:

IMPORTANT - IF MOTOR STALLS, THE TRIMPOT MUST BE READJUSTED



Turn control switch pot full clockwise; with a small screwdriver, slowly turn trimpot (clockwise to decrease / counterclockwise to increase) to the desired R.P.M.

### Ganged Unit-Wall Box Requirements

Number of single gang units	Number of double gang units					
	0	1	2	3	4	5
0	-	1	3	5	7	9
1	1	3	5	7	9	11
2	2	4	6	8	10	12
3	3	5	7	9	11	13
4	4	6	8	10	12	14

Minimum size wall box required (in gangs)

### Ganged Units-Derating

DIMMER MODEL:	FINS REMOVED (AS SHOWN)		
	NONE	ONE SIDE	BOTH SIDES
MTA-6, MTA-6-3W, ASMTA-6-3W ASMTA-6, SCMTA-6	6.0 amps	5.4 amps	4.8 amps
MTA-8, ASMTA-8, SCMTA-8	8.3 amps	7.4 amps	6.6 amps
MTA-12, ASMTA-12, SCMTA-12	12.5 amps	11.2 amps	10.0 amps

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## Installation and Wiring Instructions for Motor Controls 277 V

**Models:**

**A-Line Series:** MTA-647, MTA-647-3W, MTA-1047, MTA-1547, MTA-2047  
**Accent Series:** ASMTA-647, ASMTA-647-3W, ASMTA-1047, ASMTA-1547, ASMTA-2047  
**Omega Series:** SCMTA-647, SCMTA-1047, SCMTA-1547, SCMTA-2047

**Load:**

MTA-647, MTA-647-3W, ASMTA-647, ASMTA-647-3W, & SCMTA-647 ;	2.2 amps
MTA-1047, ASMTA-1047, & SCMTA-1047 ;	3.6 amps
MTA-1547, ASMTA-1547, & SCMTA-1547;	5.4 amps
MTA-2047, ASMTA-2047 & SCMTA-2047;	7.2 amps

**CAUTION:**

For personal safety and to prevent damage to Motor Speed / Fan Control from accidental shorting, turn *OFF* power at main breaker prior to installing unit. As a further precaution, the control switch should be rotated counter clockwise to full *OFF* position.

**NOTES:** HUNT Motor Speed / Fan Controls are designed to be used with most 277 volt split capacitor (PSC) and shaded pole motors.

1. If the Motor Speed / Fan Control is used on a 277/480 volt three phase system - a separate neutral must be run from each phase leg.
2. Fins must be mounted in the vertical position and must not be recessed into the wall. When stacking controls or mounting one above the other, allow a minimum of three inches of clear wall space between the upper and lower finned plates. The aluminum fins act as a heat sink to remove heat created by the solid state components and may become warm to the touch when the Motor Speed / Fan Control is operated at its maximum rated load. This is normal and does not indicate a malfunction. Removal of fins reduces capacity and Motor Speed / Fan Control must be derated per "Ganging" information on back.
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4. A-Line Series Motor Speed / Fan Controls include a snap-on, decorative black plastic face plate panel. Accent and Omega Series Motor Speed / Fan Controls include a full wrap-around extruded aluminum decorative snap-on face plate in standard ivory color or optional white.
5. When installing models MTA-647-3W-or ASMTA-647-3W, complete the three-way circuit with a standard 3-way switch. Never attempt to use two controls in the same circuit.

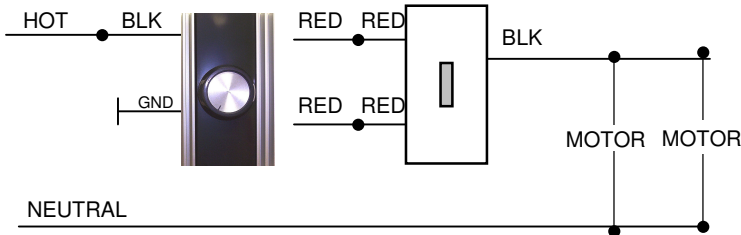
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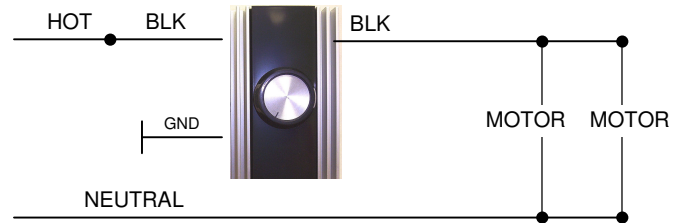
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## Wiring Diagrams for Motor Controls 277V

### Three Way Wiring

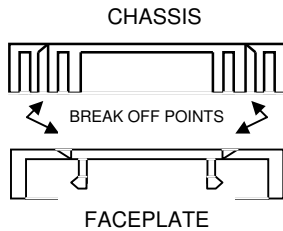


### Single Pole Wiring



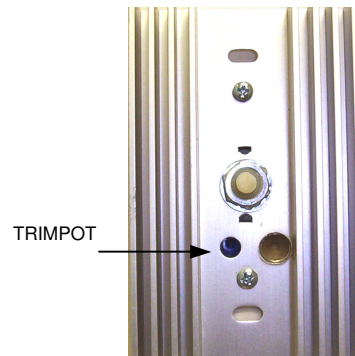
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4	4	6	8	10	12	14

Minimum size wall box required (in gangs)

### Ganged Units-Derating

DIMMER MODEL:	FINS REMOVED (AS SHOWN)		
	NONE	ONE SIDE	BOTH SIDES
MTA-647, MTA-647-3W, ASMTA-647, ASMTA-647-3W, SCMTA-647	2.2 amps	2.0 amps	1.8 amps
MTA-1047, ASMTA-1047, SCMTA-1047	3.6 amps	3.2 amps	2.8 amps
MTA-1547, ASMTA-1547, SCMTA-1547	5.4 amps	4.9 amps	4.4 amps
MTA-2047, ASMTA-2047, SCMTA-2047	7.2 amps	6.5 amps	5.8 amps

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