

Wiring Diagrams Schedule



Type	Fan	Size	Diagram No.	Page
Kitchen Roof Axial Vertical	MV305,381,457-4E	305-457mm 240V single phase	1A	
	MV305,381,457.559,660-4D	305-660mm 415V 3 phase	2	
	MV305,381.457-4E VAR	305-457mm VS motor without Speed Controller	3	
	MV305,381,457-4E VAR	305-457mm VS motor with Speed Controller	4	
	MV381,457-4/6D	381-457mm 415V 2sp 3 phase	5	
Kitchen Inline Axial	MUA100 to 300-2E & 4E	100-300mm 240V Single phase	1B	
	MUA305 to 500-4E	305-500mm 240V Single phase	1A	
	MUA305 to 630-4D	305-630mm 415V 3 phase	2	
	MUA305,381.457-4E VAR	305-457mm 240V VS motor without Speed Controller	3	
	MUA305,381,457-4E VAR	305-457mm 240V VS motor with Speed Controller	4	
	MUA381,457-4/6-D	381-457mm 415V 2sp 3 phase	5	
Kitchen Roof Axial Exhaust , Supply Air Downflow Cap	MUAR150 to 300-2E & 4E	100-300mm 240V Single phase	1B	
	MUAR305 to 500-4E	305-500mm 240V Single phase	1A	
	MUAR305 to 630-4D	305-630mm 415V 3 phase	2	
	MUAR305,381.457-4E VAR	305-457mm 240V VS motor without Speed Controller	3	
	MUAR305,381,457-4E VAR	305-457mm 240V VS motor with Speed Controller	4	
	MUAR381,457-4/6-D	381-457mm 415V 2sp 3 phase	5	
Centrifugal Roof Vertical	MCV310,355-4E	310-355mm 240V single phase	10	
	MCV310,355	310-355 240V complete with Speed Controller	11	
	MCV400,450,500-4E	400-560mm 240V single phase	12	
	MCV400-4E	400mm complete with Speed Controller VA500	13	
	MCV450,500-4E	450-560mm 240V complete with Speed Controller	16	
	MCV310 to 710-4D/6D	400-710 415V Delta - High Speed	14	
	MCV310 to 710-6D/8D	400-710 415V Star - Low Speed	15	
Centrifugal Inline Box Fan	MUC310,355-4E	310-355mm 240V single phase	10	
	MUC310,355	310-355 240V complete with Speed Controller	11	
	MUC400,450,500-4E	400-560mm 240V single phase	12	
	MUC400-4E	400mm complete with Speed Controller VA500	13	
	MUC450,500-4E	450-560mm 240V complete with Speed Controller	16	
	MUC310 to 710-4D/6D	400-710 415V Delta - High Speed	14	
	MUC310 to 710-6D/8D	400-710 415V Star - Low Speed	15	

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Type	Fan	Size	Diagram No.	Page
Roof Centrifugal Supply Air	MUCR310,355-4E	310-355mm 240V single phase	10	
	MUCR310,355	310-355 240V complete with Speed Controller	11	
	MUCR400,450,500-4E	400-560mm 240V single phase	12	
	MUCR400-4E	400mm complete with Speed Controller VA500	13	
	MUCR450,500-4E	450-560mm 240V complete with Speed Controller	16	
	MUCR310 to 630-4D/6D	400-710 415V Delta - High Speed	14	
	MUCR310 to 630-6D/8D	400-710 415V Star - Low Speed	15	
Roof Centrifugal Vertical Round Connection	MVR250,305,381-4E	250-305mm 240V	10	
	MVR250,305,381	250-305mm 240V complete with Speed Controller	11	
	MVR381-4D	381 mm 415V 3 phase Delta -High Speed	14	
	MVR381-6D	381mm 415V 3 phase Star-Low Speed	15	
Roof Centrifugal Downflow Exhaust	MCH190,225,250,280	190-280mm 240V single phase	10	
	MCH190,225,250,280	190-280mm 240V complete with Speed Controller	11	
Roof Centrifugal Round Connection	MCR190,225,250	190-250mm 240V	10	
	MCR190,225,250	190-250mm 240V complete with Speed Controller	11	
Roof Centrifugal Supply Air	MCH150/S	3 speed Fan speed set as required		
Lineo Mix Flow	Lineo250,315	250-315mm 240V	17	
Wall Plate Fans	WP	400mm 240V	8	
		630mm 240V	31	
		500-800mm 415V 2sp - High Speed	18	
		500-800mm 415V 2sp - Low Speed	19	
Wall Ring Plates	WR	200mm 4P 240V	6	
		200-300mm 2P 240V	7	
		250-350mm 4P 240V	7	
Mix Flow Inline	MX100,125,150,200	Fitted with plug & Lead		
	Star Delta Switch	For Ziehl 2 Speed Motors	24	
Inline Centrifugal	K100M,K125M	100M-125M mm 240V	25	
	K100XL, K125XL	100XL-125XL mm 240V	26	
	K1150,200,250,315	150-315mm 240V	26	

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CFM Airsystems reserve the right to change design without any notice or obligation. Please refer to your local CFM Airsystems representatives for technical and installation details.

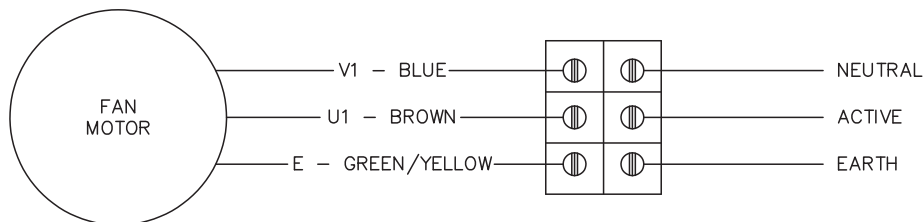


Wiring Diagrams Schedule



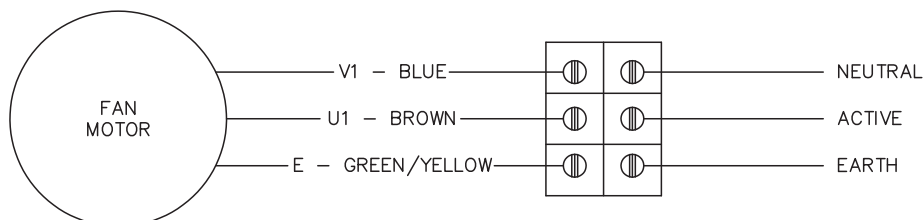
Type	Fan	Size	Diagram No.	Page
Short Case Axials	SC200,250,300,400,450	200-450mm 240V	29	
		500-560mm 240V	30	
		350-400mm 415V	32	
		450-630mm 415V	33	
Roof Axial	MAH150	150mm 240V	1B	
Exhaust or Supply	MAV,MAH	560-1000mm 415V 1sp	2	
Ceiling Fans	NVF,BPT. CF18-11	Single phase 240 V	1B	

1A



NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
2. THIS UNIT IS NOT SPEED CONTROLLABLE

1B



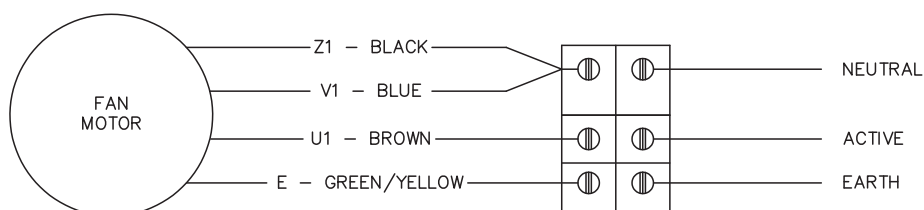
NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)

2



NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
2. CHANGE ROTATION OF DIRECTION BY INTERCHANGING 2 PHASES

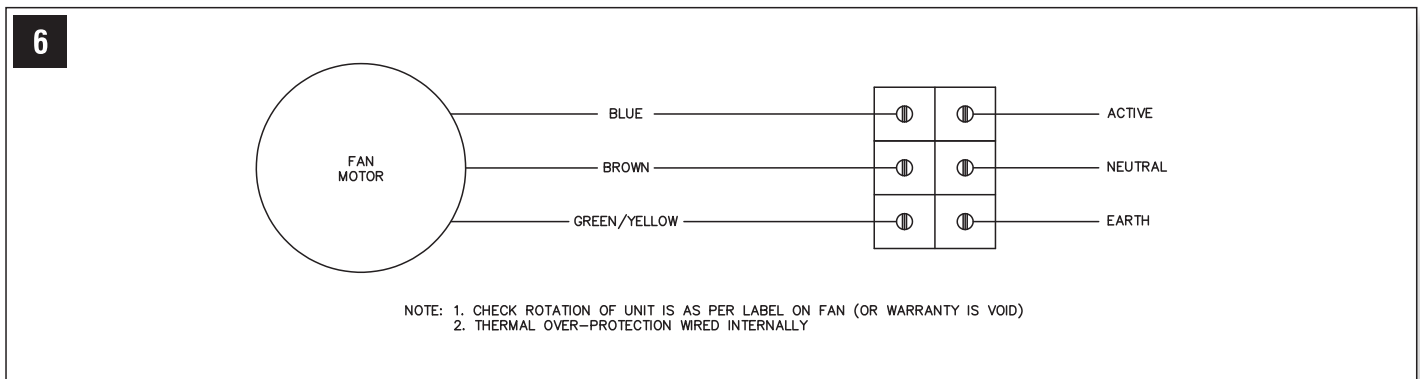
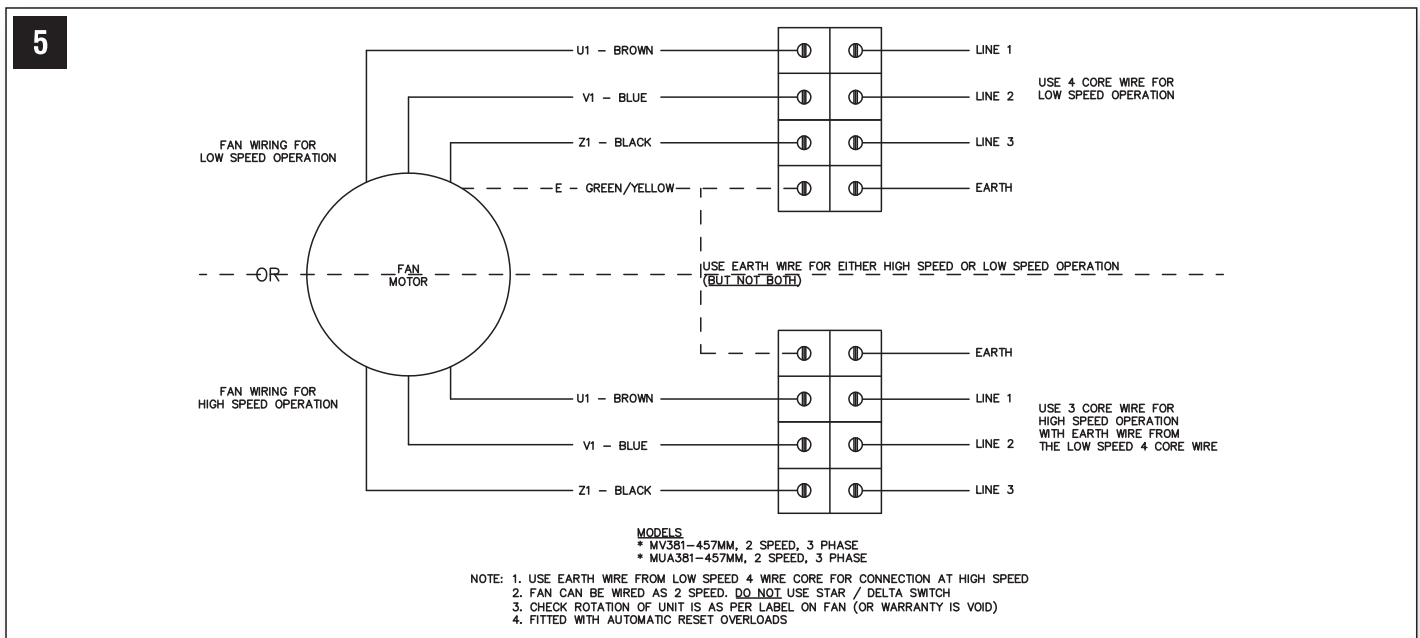
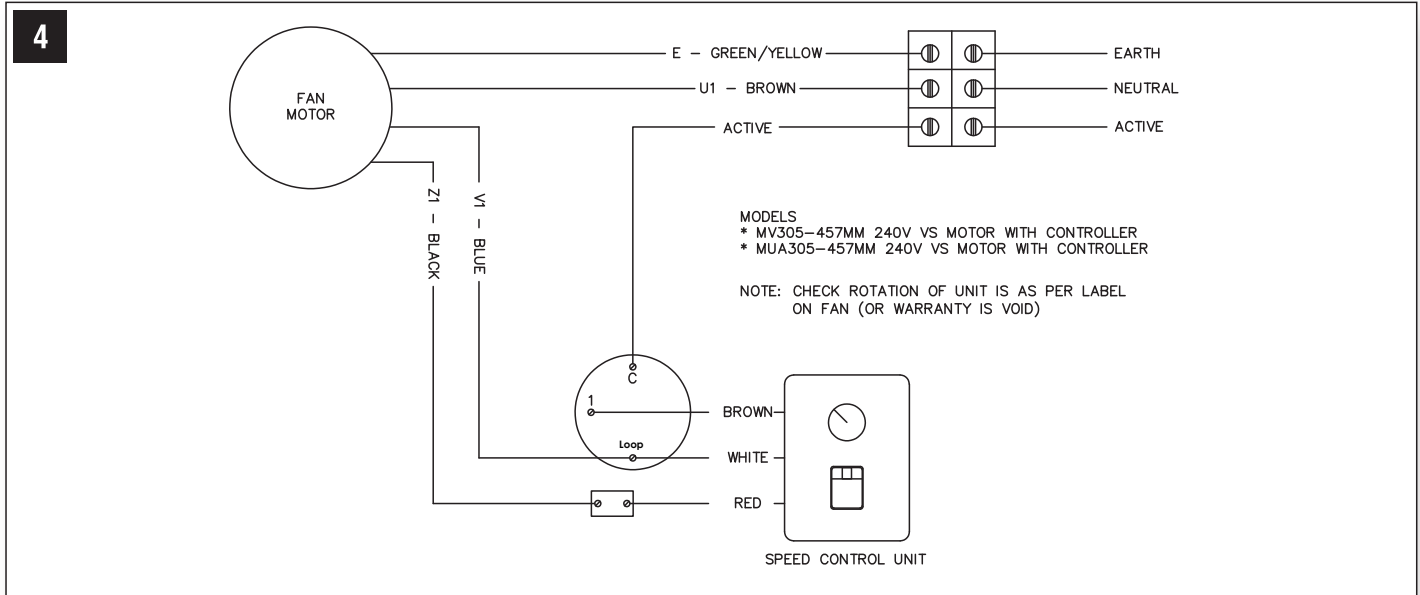
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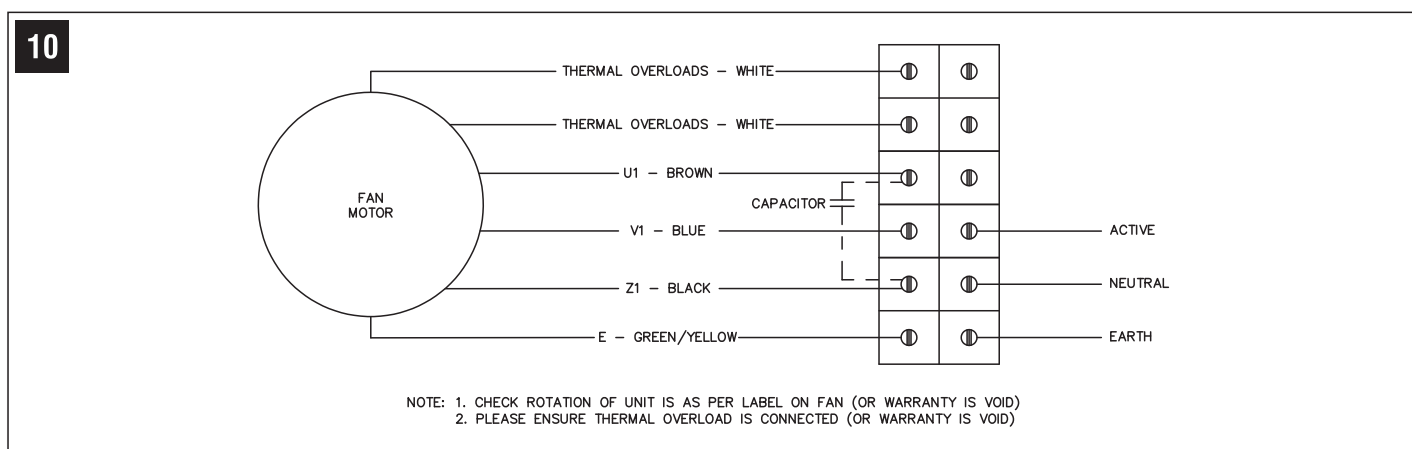
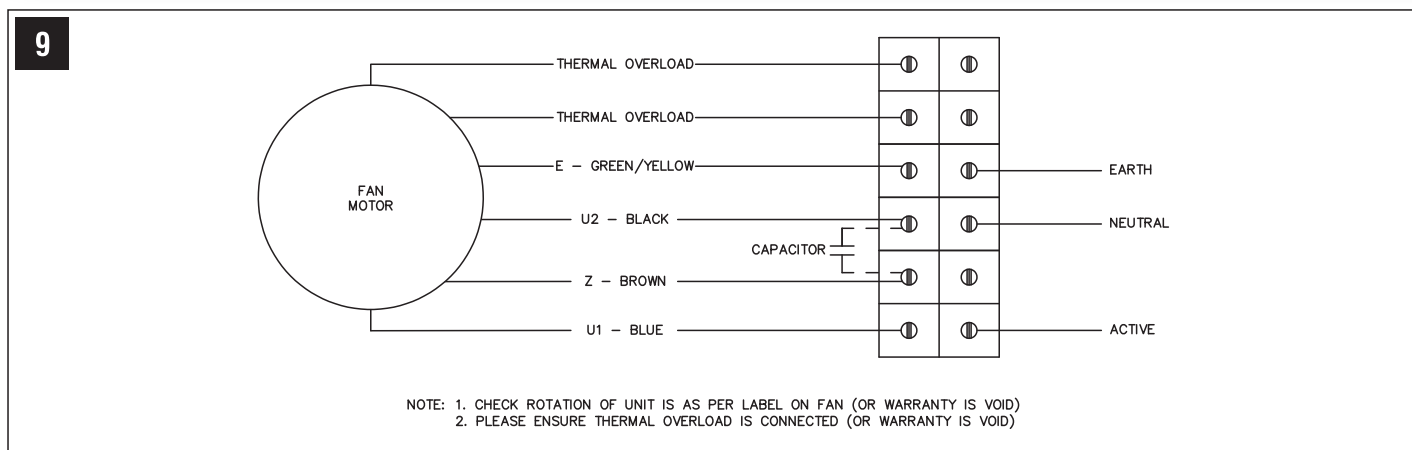
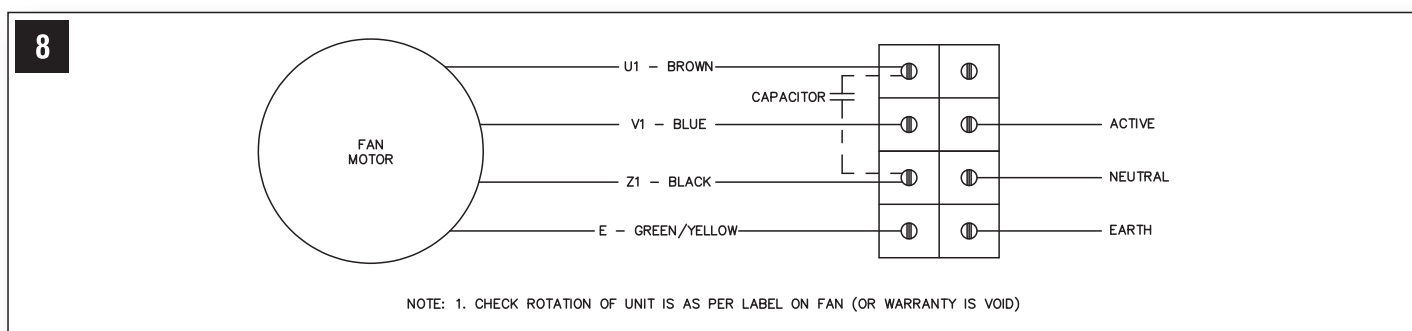
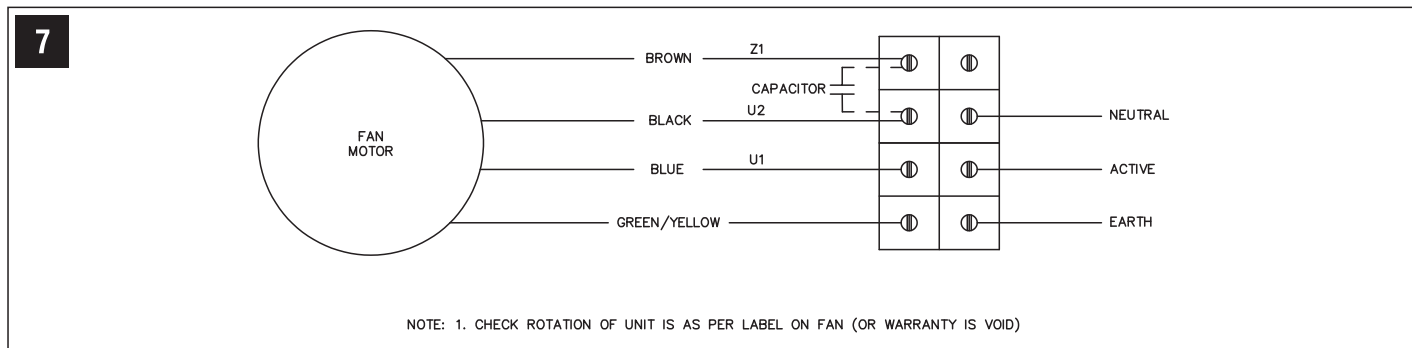


NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
2. IF SPEED CONTROLLER IS NOT USED ON 305, 381 & 457 MODELS
JOIN BLUE & BLACK LEADS TO SUPPLY NEUTRAL

Wiring Diagrams

4 - 6

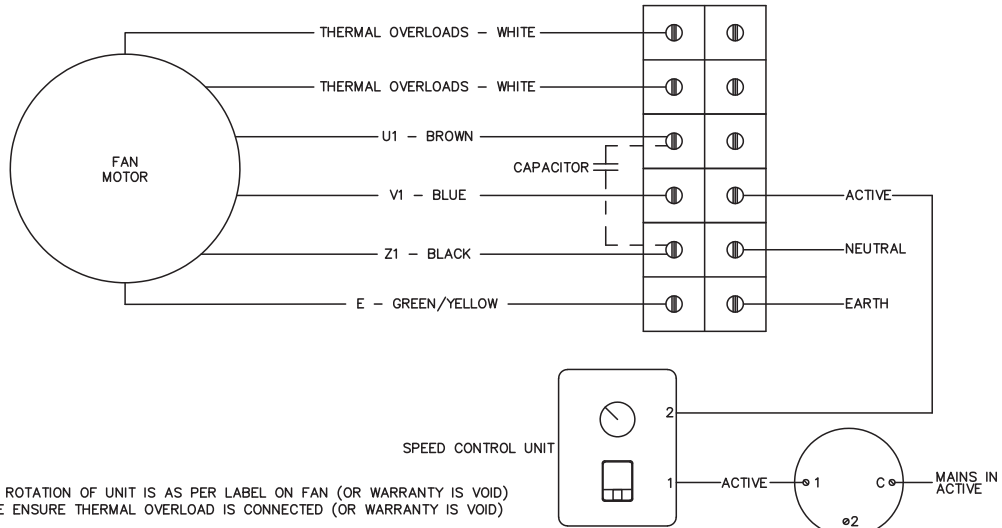




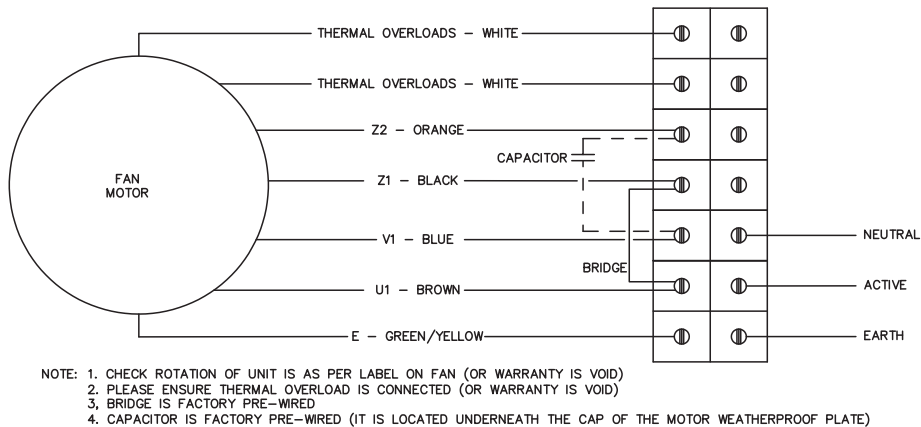
Wiring Diagrams

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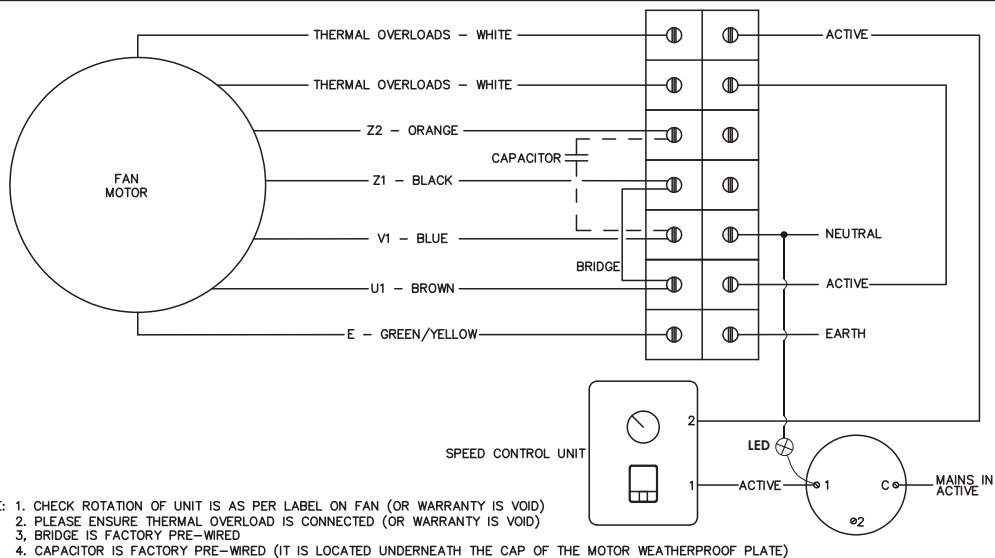
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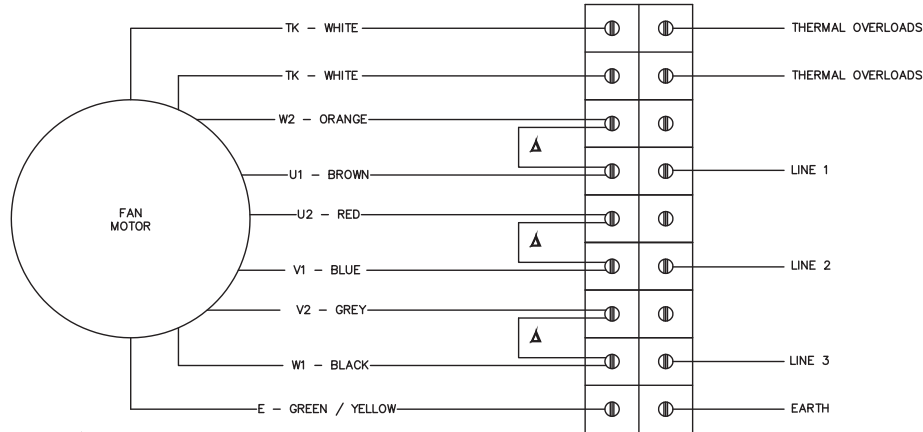
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Wiring Diagrams

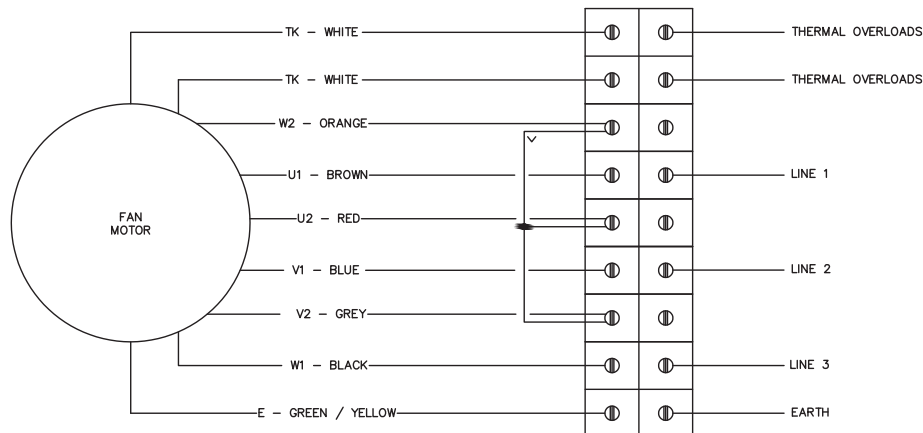
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14



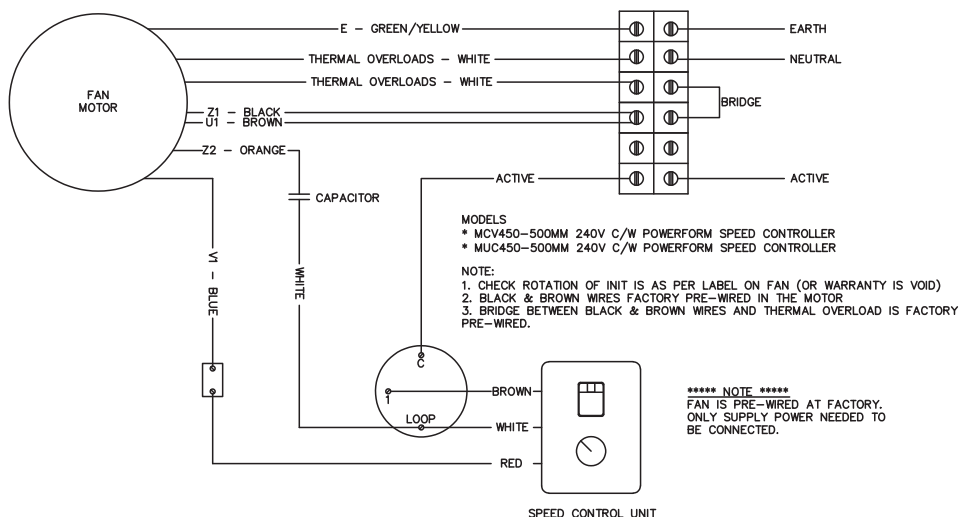
NOTE: 1. Δ - BRIDGE FOR DELTA CONNECTION (HIGH SPEED)
2. WIRE IN EITHER DELTA OR STAR. NOT BOTH
3. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
4. CHANGE ROTATION OF DIRECTION BY INTERCHANGING 2 PHASES
5. PLEASE ENSURE THAT THERMAL OVERLOAD IS CONNECTED (OR WARRANTY IS VOID)

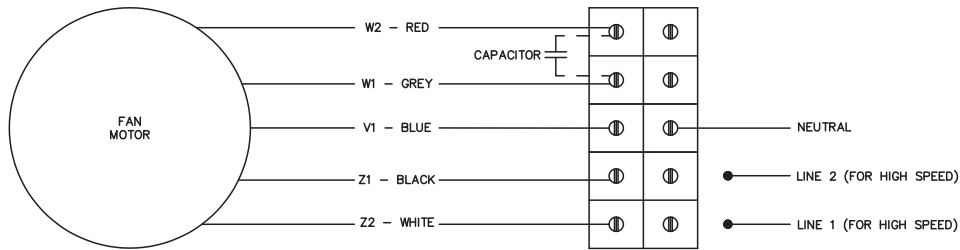
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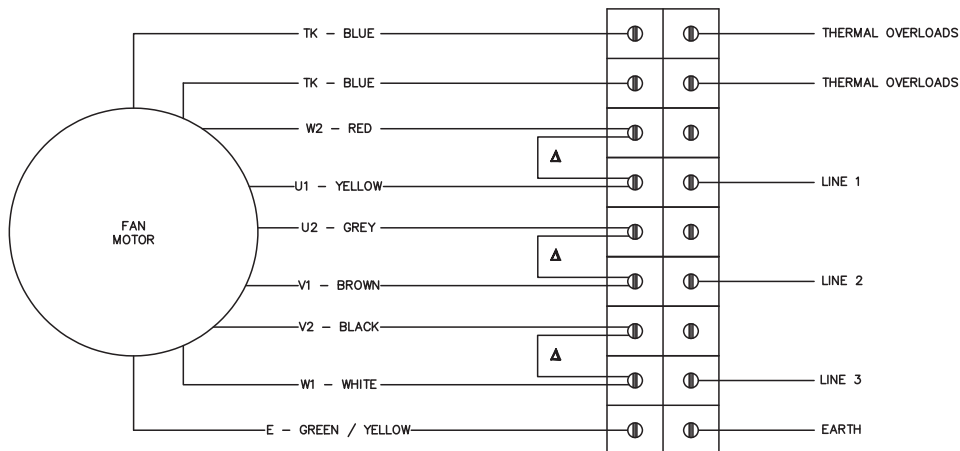
NOTE: 1. Y - BRIDGE FOR STAR CONNECTION (LOW SPEED)
2. WIRE IN EITHER DELTA OR STAR. NOT BOTH
3. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
4. CHANGE ROTATION OF DIRECTION BY INTERCHANGING 2 PHASES
5. PLEASE ENSURE THAT THERMAL OVERLOAD IS CONNECTED (OR WARRANTY IS VOID)

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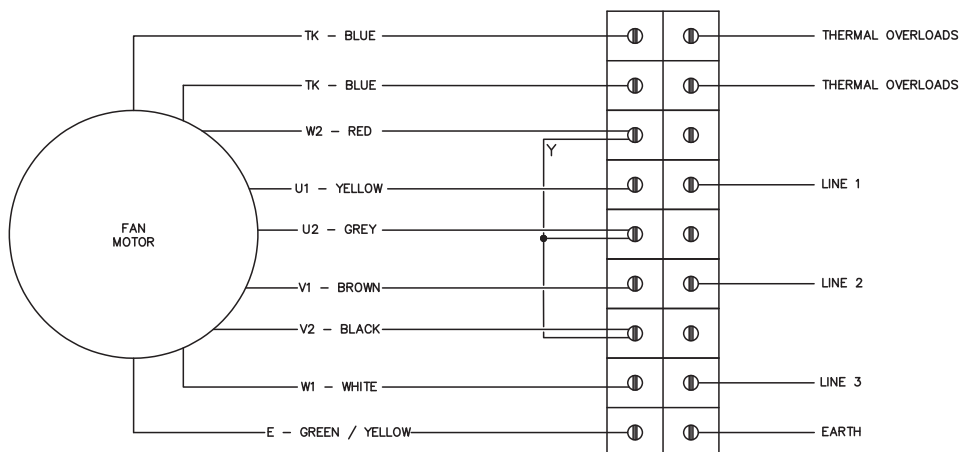


17


NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
 2. CONNECT ACTIVE TO EITHER LINE 1 FOR HIGH SPEED OR
 3. CONNECT ACTIVE TO LINE 2 FOR LOW SPEED
 4. DO NOT CONNECT ACTIVE TO BOTH LINE 1 & LINE 2

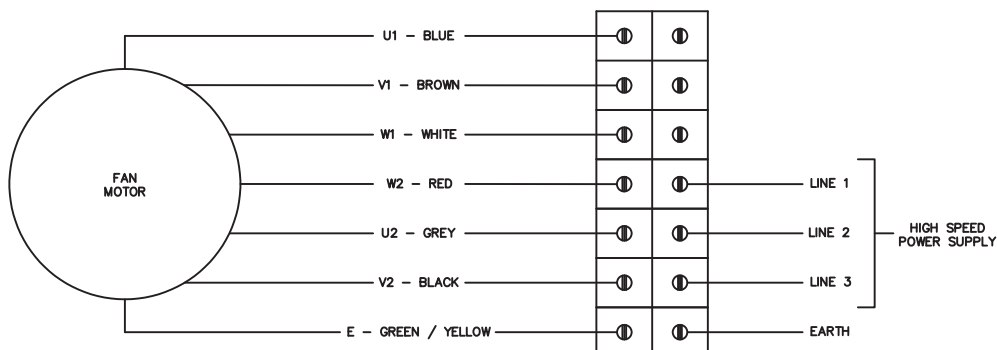
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NOTE: 1. Δ - BRIDGE FOR DELTA CONNECTION (HIGH SPEED)
 2. WIRE IN EITHER DELTA OR STAR. NOT BOTH
 3. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
 4. CHANGE ROTATION OF DIRECTION BY INTERCHANGING 2 PHASES
 5. PLEASE ENSURE THAT THERMAL OVERLOAD IS CONNECTED (OR WARRANTY IS VOID)

19


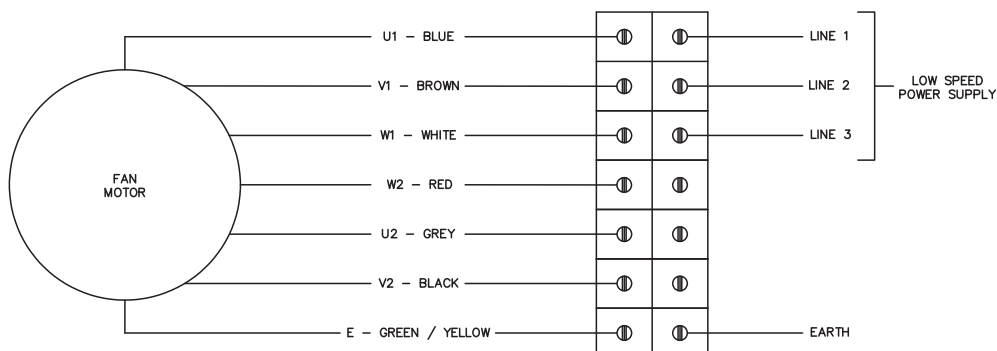
NOTE: 1. Y - BRIDGE FOR STAR CONNECTION (LOW SPEED)
 2. WIRE IN EITHER DELTA OR STAR. NOT BOTH
 3. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
 4. CHANGE ROTATION OF DIRECTION BY INTERCHANGING 2 PHASES
 5. PLEASE ENSURE THAT THERMAL OVERLOAD IS CONNECTED (OR WARRANTY IS VOID)

20



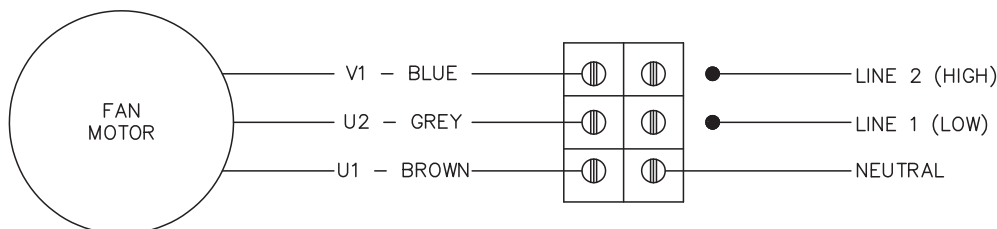
NOTE: 1. WIRE IN EITHER HIGH SPEED OR LOW SPEED. **NOT BOTH**.
 2. FAN CAN BE WIRED IN 2 SPEED. **DO NOT** USE STAR / DELTA SWITCH.
 3. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID).
 4. CHANGE ROTATION OF DIRECTION BY INTERCHANGING 2 PHASES

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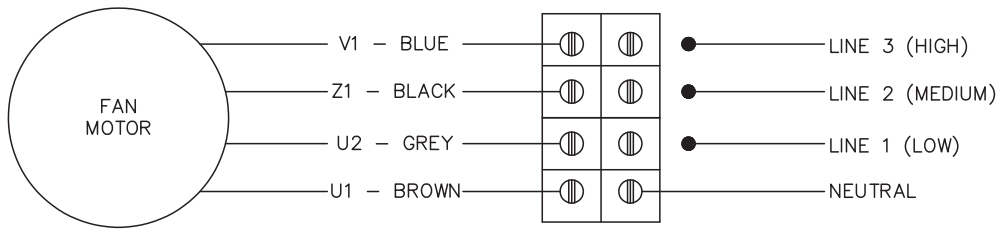


NOTE: 1. WIRE IN EITHER HIGH SPEED OR LOW SPEED. **NOT BOTH**.
 2. FAN CAN BE WIRED IN 2 SPEED. **DO NOT** USE STAR / DELTA SWITCH.
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 4. CHANGE ROTATION OF DIRECTION BY INTERCHANGING 2 PHASES

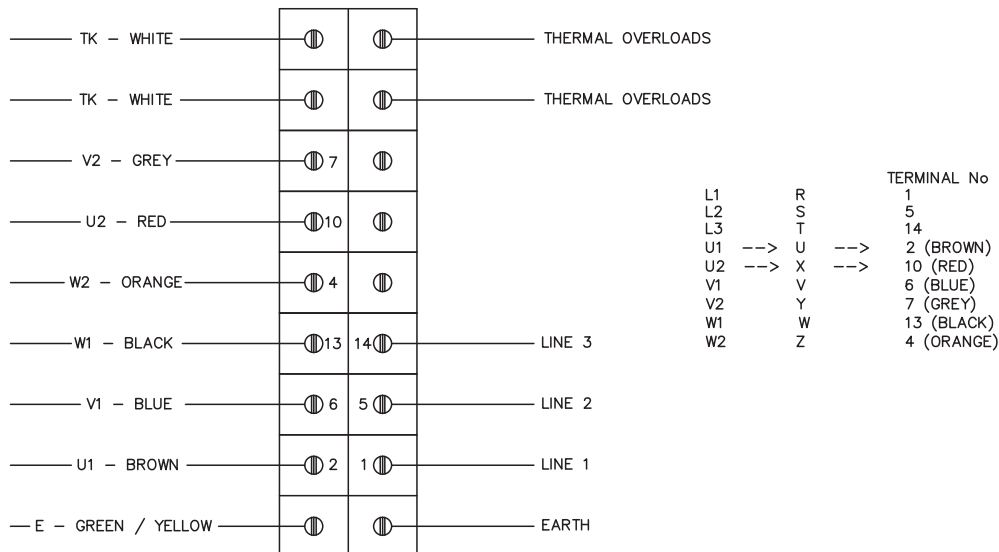
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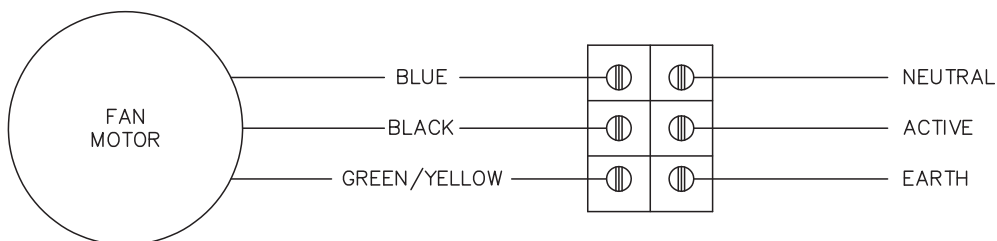
NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
 2. CONNECT ACTIVE TO EITHER LINE 1 FOR LOW SPEED OR
 3. CONNECT ACTIVE TO LINE 2 FOR HIGH SPEED
 4. DO **NOT** CONNECT ACTIVE TO BOTH LINE 1 & LINE 2

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NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
 2. CONNECT ACTIVE TO EITHER LINE 1 FOR LOW SPEED OR
 3. CONNECT ACTIVE TO EITHER LINE 2 FOR MEDIUM SPEED OR
 3. CONNECT ACTIVE TO LINE 3 FOR HIGH SPEED
 4. DO NOT CONNECT ACTIVE TOGETHER TO LINES 1, LINE2 & LINE 3

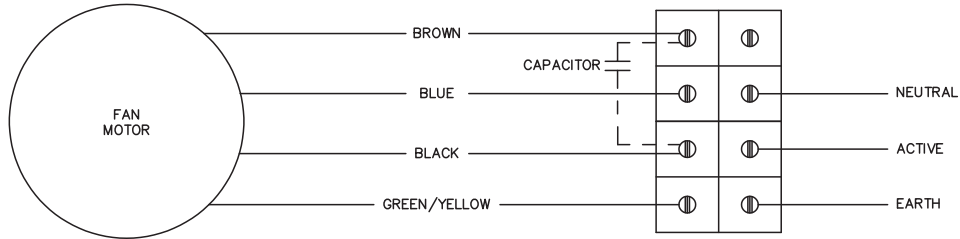
24


NOTE: 1. THREE PHASE MOTOR WITH 2 SPEEDS & THERMAL CONTACT.
 2. SPEED CHANGING BY Δ / Y SWITCHING.
 3. CHANGING OF ROTATION BY INTERCHANGING OF 2 PHASE.
 4. WHEN USING Δ / Y SWITCHING UNITS, BRIDGES ARE NOT REQUIRED.

25


NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)

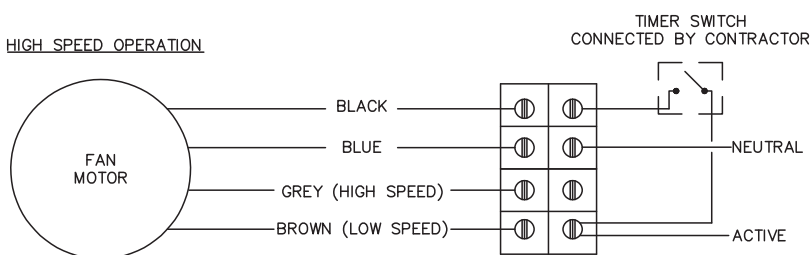
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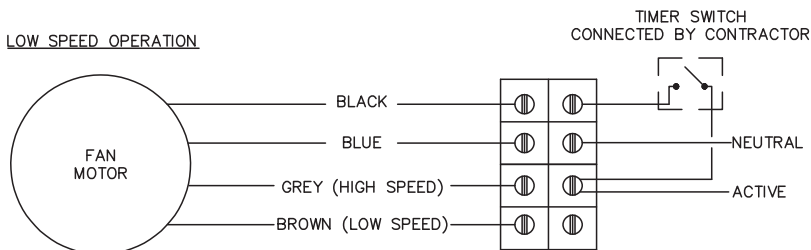
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HIGH SPEED OPERATION



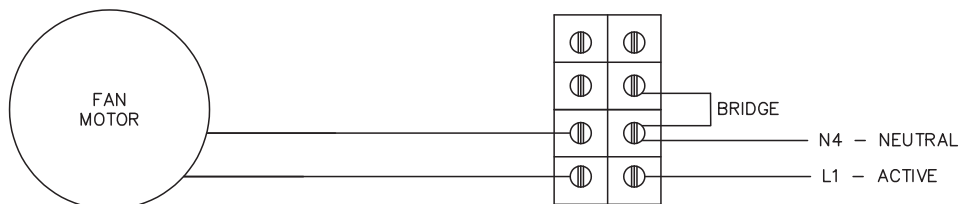
LOW SPEED OPERATION



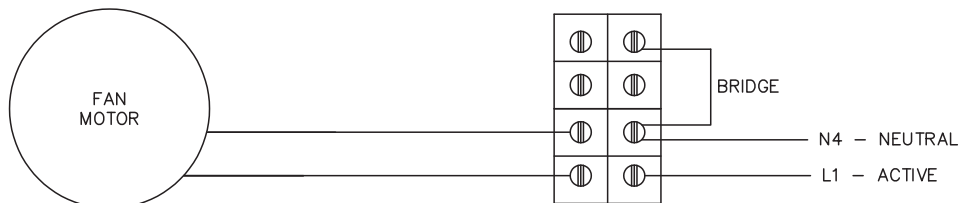
NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
2. CONNECT ACTIVE TO EITHER LOW SPEED OR HIGH SPEED LINE
3. DO NOT CONNECT ACTIVE TO BOTH LOW AND HIGH SPEED LINES.

28

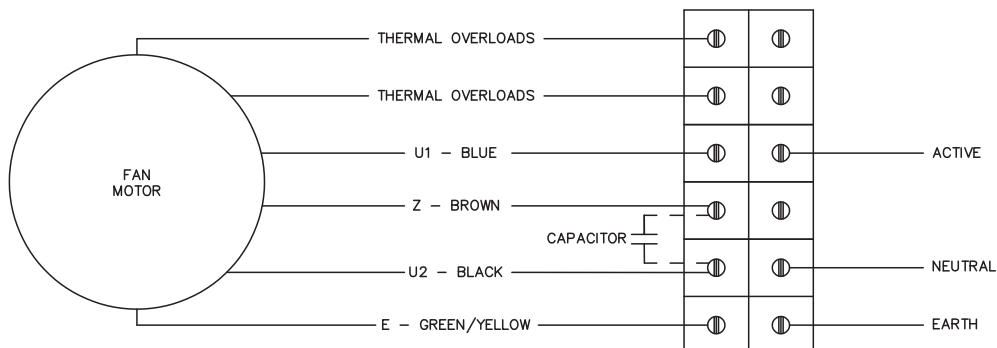
WIRING FOR SUPPLY MODE



WIRING FOR EXTRACTION MODE

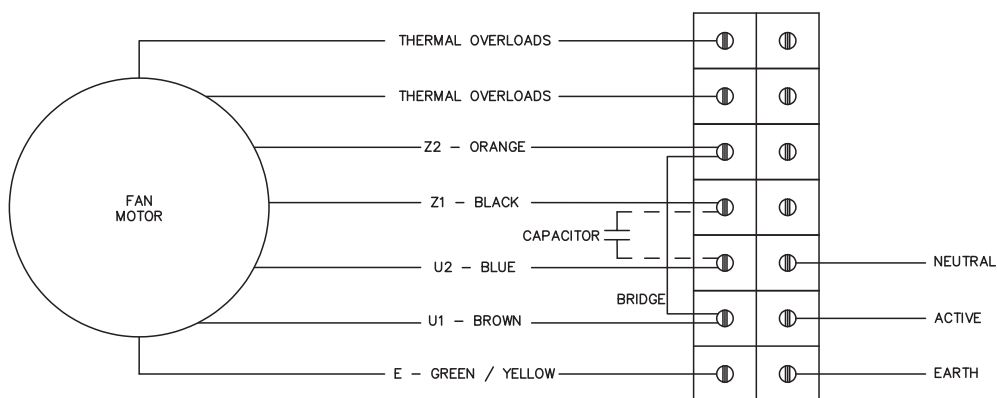


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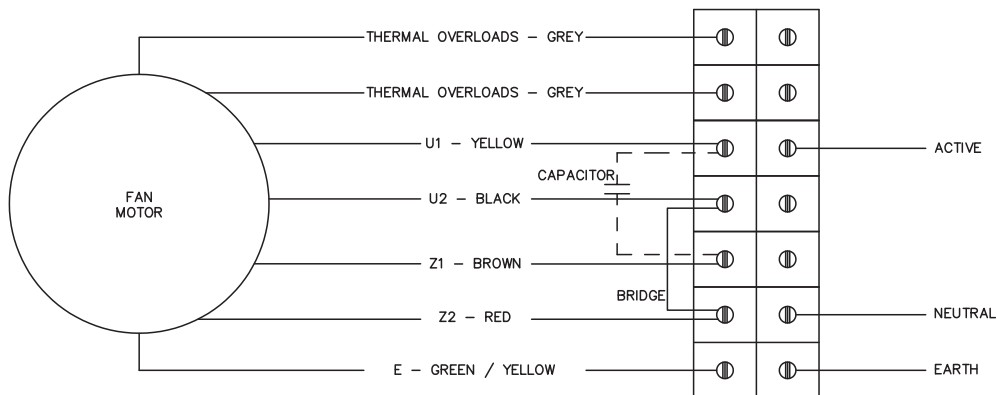
NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
2. PLEASE ENSURE THERMAL OVERLOADS IS CONNECTED (OR WARRANTY IS VOID)

30



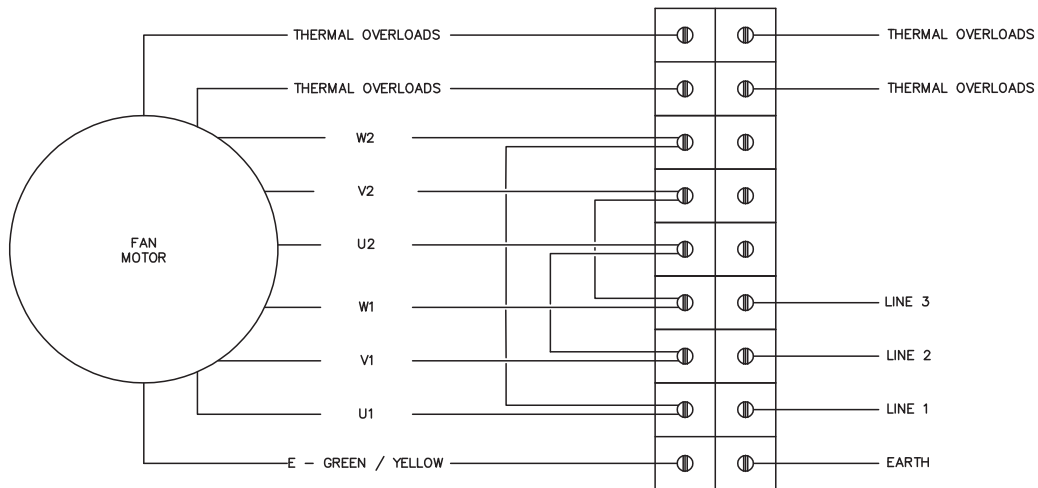
NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
2. PLEASE ENSURE THERMAL OVERLOADS IS CONNECTED (OR WARRANTY IS VOID)

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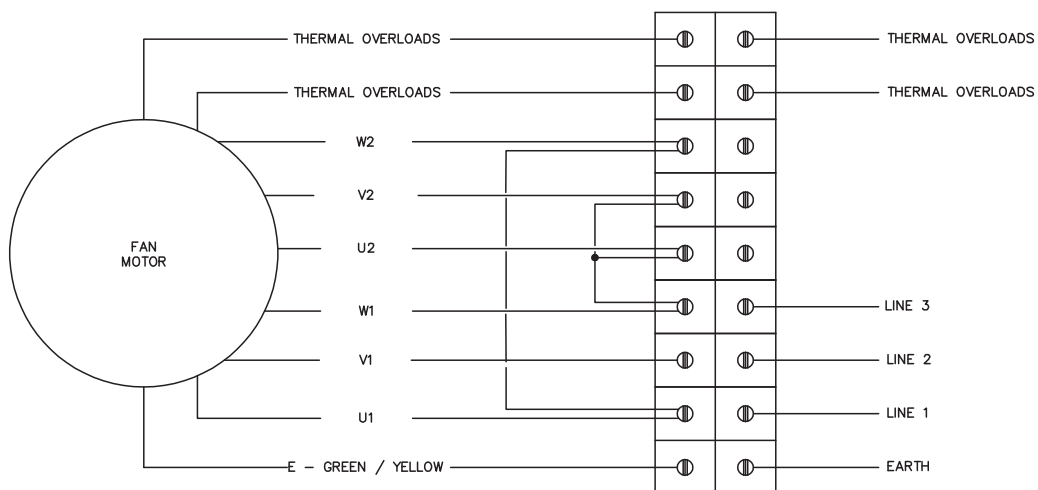


NOTE: 1. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
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DELTA CONNECTION



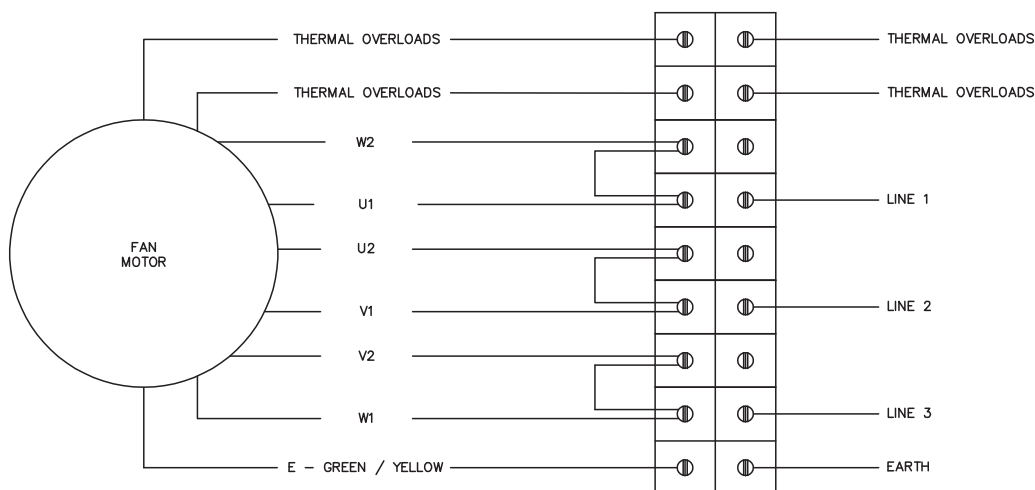
STAR CONNECTION



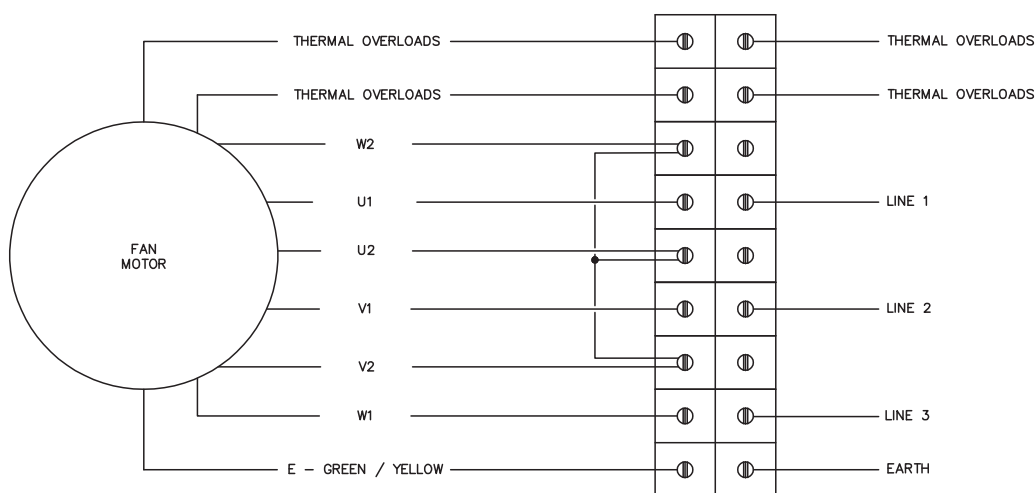
- NOTE: 1. WIRE IN EITHER DELTA OR STAR CONNECTIONS. NOT BOTH
 3. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
 4. CHANGE ROTATION OF DIRECTION BY INTERCHANGING 2 PHASES
 5. PLEASE ENSURE THAT THERMAL OVERLOAD IS CONNECTED (OR WARRANTY IS VOID)

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DELTA CONNECTION



STAR CONNECTION



NOTE: 1. WIRE IN EITHER DELTA OR STAR CONNECTIONS. NOT BOTH
 3. CHECK ROTATION OF UNIT IS AS PER LABEL ON FAN (OR WARRANTY IS VOID)
 4. CHANGE ROTATION OF DIRECTION BY INTERCHANGING 2 PHASES
 5. PLEASE ENSURE THAT THERMAL OVERLOAD IS CONNECTED (OR WARRANTY IS VOID)