0	1		2	3		4		5		6	7		8	
		BY	DD/MM/YY						MO	DEL: FTA10	00			
firetrol	DRAWN BY	ACD	28/02/23	ELECTRIC FII	RE PU	MP CONTI	ROLLER		BUILT	TO THE LATEST EDITI	ON OF THE NFPA2	0 & NFPA	DRAWING NUMBER	CDL
© Firetrol, Inc. Not for construction. Subject to change without notice.	FINAL APPROVAL	FC	28/02/23						. (b)	NYC Dpt of Building Approved			FC1000-800 /E DWG REV. 0 SHEET 1 OF 1	_

COPPER CONDUCTORS for Isolating Switch (IS1). Field Wiring According to Bending Space (AWG or MCM). Terminals L1 - L2 - L3

440 to 480 1x (1/0 to 3/0)

** Consult Factory

600

Bending

Space

1x (1 to 1/0)

5 " (127 mm)

1x (3/0)

1x (2/0 to 3/0)

в

Bending Space				5 " (1	27 mm)			8 " (203 mm	8 " (203 mm)			
HP Voltage	5	7.5	10 15		20	25	30	40	50	60		
208	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1/0 to 3/0)	1x (3/0 to 250)	1x (4/0 to 250)		
220 to 240	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0 to 250)		
380 to 416	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0) 1x (8 to 1/0)		1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0) 1x (6 to 1/0)		1x (4 to 1/0) 1x (3 to 1/0)		1x (3 to 1/0)	
440 to 480	1x (10 to 1/0)	1x (10 to 1/0) 1x (10 to 1/0) 1x (10 to 1/0) 1x (10 to 1/0)		1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)			
600	1x (10 to 1/0)	1x (10 to 1/0) 1x (10 to 1/0) 1x (10 to 1/0) 1x (10 to 1/0)		1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)			
Bending Space	12 " (305 mm)				16 " (406 mm)							
HP Voltage	75	100	125	150	200	250	300	350	400	450	500	
208	2x (1/0 to 500)	2x (2/0 to 500)	2x (4/0 to 500)	2x (250 to 500)	3x (4/0 to 500)							
220 to 240	1x (250)	2x (2/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (350 to 500)	3x (250 to 500)						
380 to 416	1x (1/0 to 3/0)	1x (3/0 to 250)	1x (250)	2x (1/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (400 to 500)	3x (250 to 500)	3x (300 to 500)		
440 to 480	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0 to 250)	1x (4/0 to 250)	2x (1/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (350 to 500)	2x (400 to 500)	3x (250 to 500	
600	1x (3 to 1/0)	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0 to 250)	1x (250)	2x (2/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (350 to 500	
Bending Space	5 " (127 mm)		8 " (203 mm)			12 " (305 mm)						

ALUMINUM CONDUCTORS for Isolating Switch (IS1). Field Wiring According to Bending Space (AWG or MCM). Terminals L1 - L2 - L3

1x (250)

1x (3/0) 90°C *

8 " (203 mm)

1x (250) 90°C

1x (4/0 to 250)

*For standard enclosure, use 90°C aluminium wire. Consult Factory for Use of Conductors Rated Lower than 90°C.

2

Bending Space				5 " (1	27 mm)			8 " (2	203 mm)	10 " (254 mm)	
HP /oltage	5	7.5	10	15	20	25	30	40	50	60	
208	1x (10 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 1/0)	1x (1/0)	1x (3/0)	1x (4/0 to 250)	1x (300) ** or 1x (250) 90°C *	
220 to 240	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1 to 1/0)	1x (2/0 to 3/0)	1x (3/0) 90°C *	1x (250)	
380 to 416	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (2 to 1/0)	1x (1 to 1/0)	1x (1/0)	
440 to 480	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (2 to 1/0)	1x (1 to 1/0)	
600	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (2 to 1/0)	
Bending Space		12 '	' (305 mm)				16 "	(406 mm)			
HP /oltage	75	100	125	150	200	250	300	350	400	450	
208	2x (2/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (350 to 500)	3x (300 to 500)						
220 to 240	1x (350) ** N/A	2x (3/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (500)	3x (400 to 500)					
380 to 416	1x (3/0)	1x (250 to 350)	N/A	2x (3/0 to 500)	2x (4/0 to 500)	0) 2x (300 to 500) 2x (500) 2x (500) 0°C * 3x (350 to 500) 3x (3x (400 to 500)			
140 to 100	1x (1/0 to 3/0)	1x (3/0)		1x (300 to 350)**	214 (2/0 to E00)	214 (250 to 500)	2x (300 to 500)		2x (500)	2x (500) 90°C *	3x (35

2x (3/0 to 500) 2x (250 to 500) 2x (300 to 500) 2x (400 to 500)

3

1x (350 to 500) 2x (3/0 to 500) 2x (4/0 to 250) 2x (300 to 500) 2x (350 to 500) 2x (400 to 500)

12 " (305 mm)

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2x (500)

4

2x (500) 90°C * 3x (350 to 500)

5

2x (500)

Power Terminals 3 Phases

G

1

Bonding	Incoming Power
Ground	YYY
÷	600 L1 L2 L3 IS1

Notes: 1 - For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.

2 - Controller suitable for service entrance in USA.

3 - For more accurate motor connections refer to motor manufacturer or

motor nameplate.

4 - Controller is phase sensitive. Incoming lines must be connected in ABC

sequence.



Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice. Contact manufacturer for "As Built" drawing.