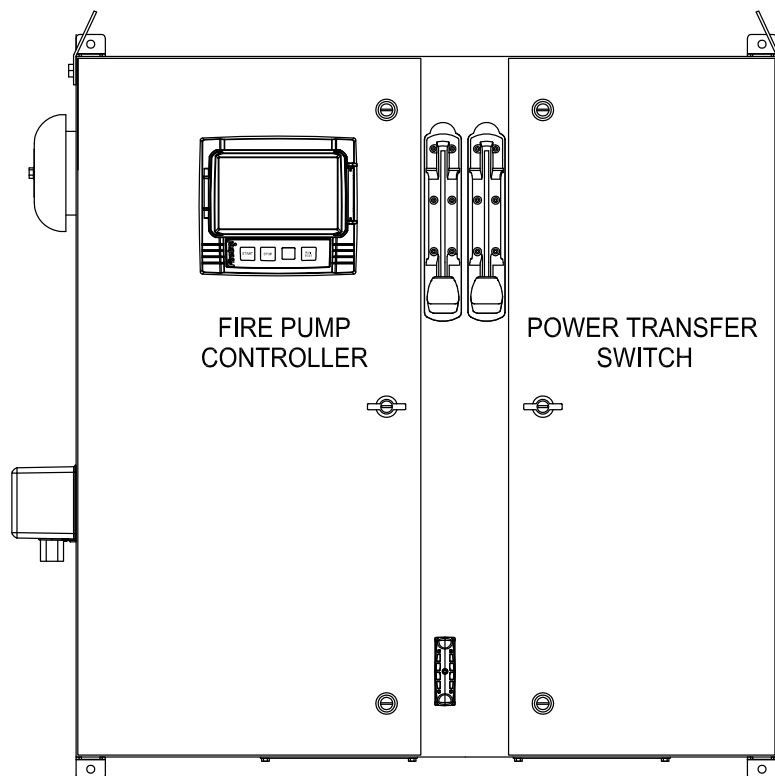


MARK^{III} Limited Service Electric Fire Pump Controller – Across The Line Starting
with Power Transfer Switch



(DRAWINGS INCLUDED IN THIS PACKAGE ARE FOR STANDARD
CONTROLLERS. ACTUAL "AS BUILT" DRAWINGS MAY DIFFER
FROM THOSE SEEN HERE).

Firetrol, Inc.

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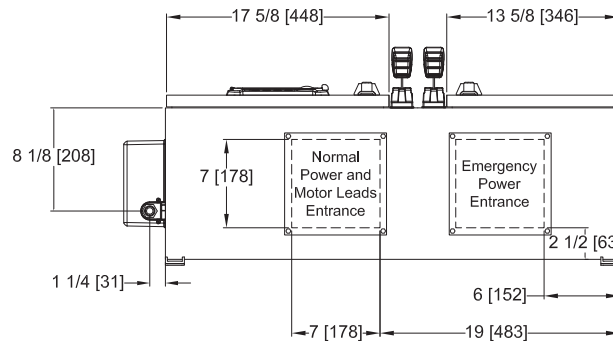
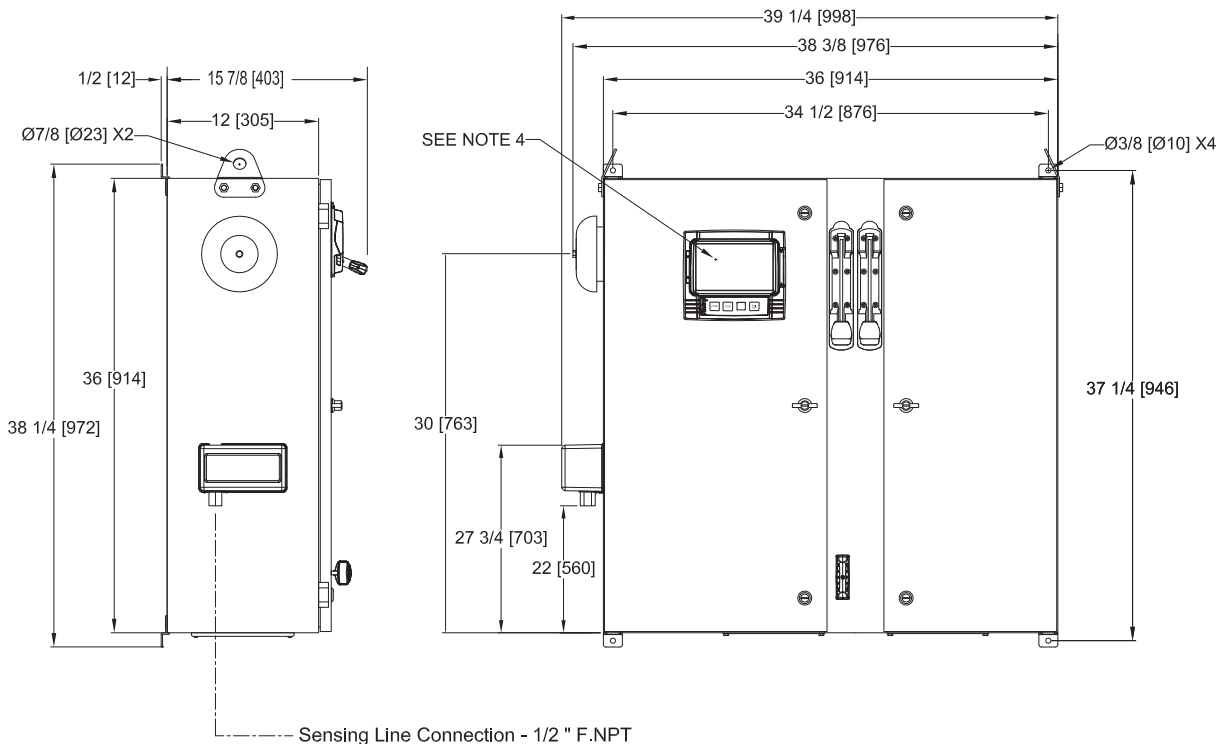
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Dimensions and Shipping Weight



FTA750/976

MARK^{III} Limited Service Electric Fire Pump Controllers – Across The Line Starting With Power Transfer Switch





VOLTAGE/POWER TABLE

LINE VOLTAGE/HZ	MOTOR HORSEPOWER
200-208/50-60	3-30
230-240/50-60	3-30
380-415/50-60	3-30
440-480/50-60	3-30
575-600/60	3-30
APPROX SHIPPING WT: 180 [82]	

NOTES:

1. STANDARD: NEMA 2
2. STANDARD PAINT: TEXTURED RED RAL3002
3. ALL DIMENSIONS IN INCHES [MILLIMETERS]
SHIPPING WEIGHT IN POUNDS [KG]
4. CENTER OF MARK III SCREEN: 29 5/8 [751] FROM
BOTTOM OF ENCLOSURE
5. BOTTOM CONDUIT ENTRANCE THROUGH
REMOVABLE GLAND PLATE RECOMMENDED
6. USE WATERTIGHT CONDUIT AND CONNECTOR ONLY
7. PROTECT EQUIPMENT AGAINST DRILLING CHIPS
8. DOOR SWING EQUAL TO DOOR WIDTH
9. DRAWINGS FOR CONSTRUCTION PURPOSES
MUST BE OBTAINED FROM FIRETROL OR THE LOCAL
FIRETROL REPRESENTATIVE

 THIRD ANGLE PROJECTION	SIZE A	BY	DATE	 Firetrol, Inc. © Firetrol, Inc. Not for construction. Use without change without notice.	RELEASED		-	-	CIR	CIR	11-5-19	
	DRAWN BY	CIR	11-5-19		REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE	
	FINAL APPROVAL	CIR	11-5-19		DIMENSIONS AND SHIPPING WEIGHT		FTA750 WITH FTA976		DRAWING NUMBER DD750-80			
			LIMITED SERVICE FIRE PUMP CONTROLLER WITH POWER TRANSFER SWITCH		DWG REV -		ECN NO -		SHEET 1 OF 1			

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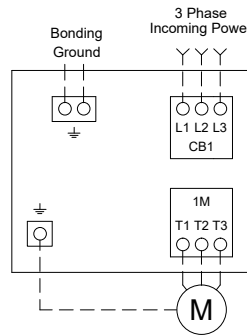
Field Connections Line & Motor Wire Terminal Capacity



FTA750

MARK^{III} Limited Service Electric Fire Pump Controllers – Across The Line Starting

Line Terminals





- 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.
 - 5 - Field wiring and lug sizes are based on copper conductors only.
Do not use aluminium conductors.

Circuit Breaker (CB) Field Wiring according to Bending Space (AWG or MCM). TERMINALS L1 - L2 - L3

Bending Space	3 " (76 mm)						
	(Use Copper Conductors Only)						
HP Voltage	5	7.5	10	15	20	25	30
208	1x (10 to 1)	1x (8 to 1)	1x (8 to 1)	1x (6 to 1)	1x (4 to 1)	1x (3 to 1)	1x (2 to 1)
220 to 240	1x (10 to 1)	1x (10 to 1)	1x (8 to 1)	1x (6 to 1)	1x (4 to 1)	1x (4 to 1)	1x (3 to 1)
380 to 416	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (8 to 1)	1x (8 to 1)	1x (6 to 1)	1x (6 to 1)
440 to 480	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (8 to 1)	1x (8 to 1)	1x (6 to 1)
600	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (8 to 1)	1x (8 to 1)

Wiring Size for motor connection for FTA750 Models (AWG or MCM). TERMINALS T1 - T2 - T3

HP Voltage	5	7.5	10	15	20	25	30
208	1x (10)	1x (10)	1x (8 to 2)	1x (6 to 2)	1x (4 to 1)	1x (3 to 1)	1x (2 to 1)
220 to 240	1x (12 to 10)	1x (10)	1x (8 to 2)	1x (6 to 2)	1x (4 to 1)	1x (4 to 1)	1x (3 to 1)
380 to 416	1x (14 to 10)	1x (12 to 10)	1x (8 to 2)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 1)
440 to 480	1x (14 to 10)	1x (14 to 10)	1x (12 to 10)	1x (10)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)
600	1x (14 to 10)	1x (14 to 10)	1x (14 to 10)	1x (12 to 10)	1x (10)	1x (8 to 2)	1x (8 to 2)

<div> THIRD ANGLE PROJECTION</div>	SIZE	A	BY	DATE	<div>Firetrol, Inc. © Firetrol, Inc. Not for construction. Subject to change without notice.</div>	RELEASED			-	-	CIR	CIR	11-12-19
	DRAWN BY	CIR	11-12-19	REVISION DESCRIPTION			REV	ECN NO	BY	APP	DATE		
	FINAL APPROVAL	CIR	11-12-19	FIELD CONNECTIONS		FTA750		DRAWING NUMBER					
				LIMITED SERVICE FIRE PUMP CONTROLLER			FC750-70						
							DWG REV	-	ECN NO	-	SHEET 1 OF 1		



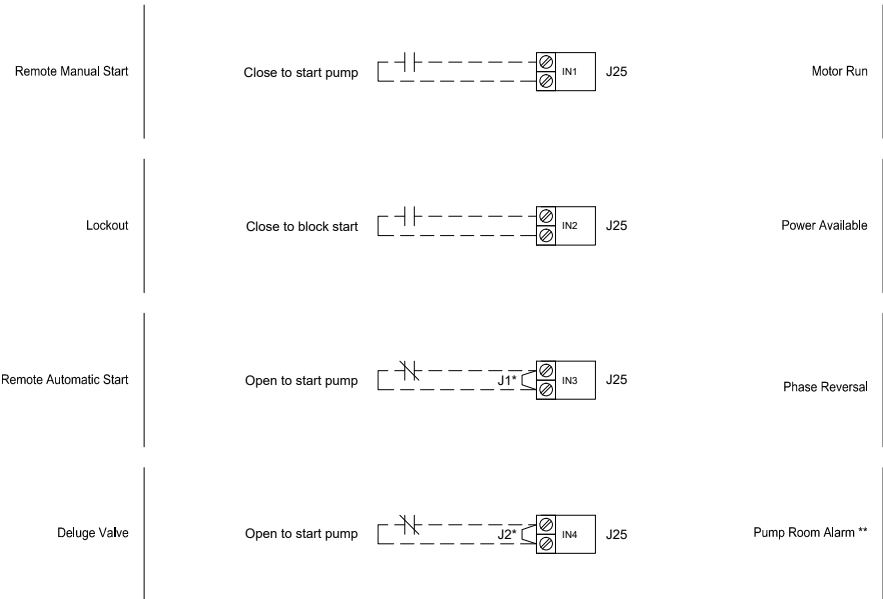
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MARK^{III} Limited Service Electric Fire Pump Controllers – Across The Line Starting

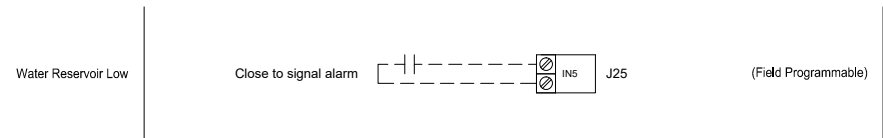
Control Terminals (EB1)

Terminals Wire Size:
24 - 12 AWG
0.5 Nm



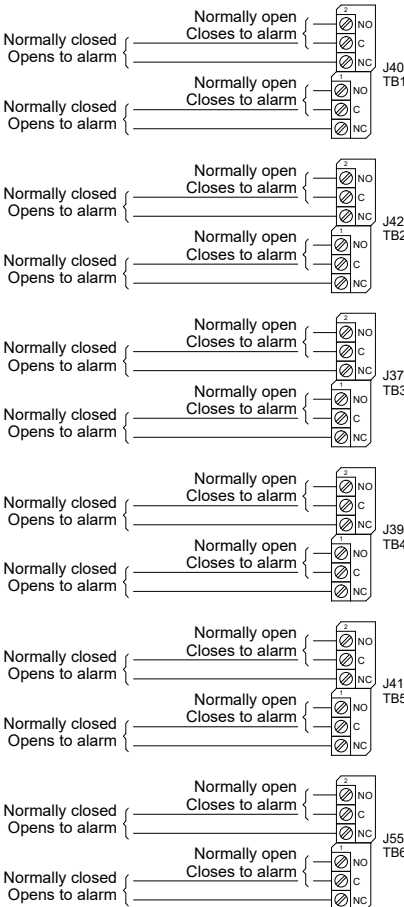
Alarm Inputs (EB1)

Terminals Wire Size:
24 - 12 AWG
0.5 Nm



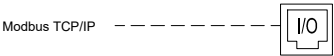
Remote Alarm Terminals (EB1)

Terminals Wire Size:
24 - 12 AWG
0.5 Nm





Network Connection (VMB1)

Shielded Female Connector RJ45



* Remove jumper to use this feature
** Re-assignable

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Contact manufacturer for "As Built" drawing.

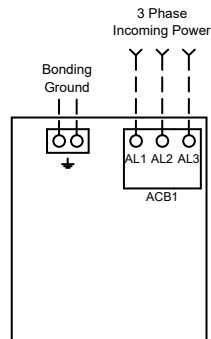
 THIRD ANGLE PROJECTION	SIZE	A	BY	DATE	 Firetrol, Inc. © Firetrol, Inc. Not for construction. Subject to change without notice.	RELEASED		-	-	CIR	CIR	11-12-19
	DRAWN BY	CIR	11-12-19	REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE		
	FINAL APPROVAL	CIR	11-12-19	FIELD CONNECTIONS		FTA750		DRAWING NUMBER				
	LIMITED SERVICE FIRE PUMP CONTROLLER					FC750-71						
						DWG REV		-	ECN NO	-	SHEET 1 OF 1	

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Power Transfer Switch For Use With MARK^{III} Limited Service Electric Fire Pump Controllers

Power Terminals



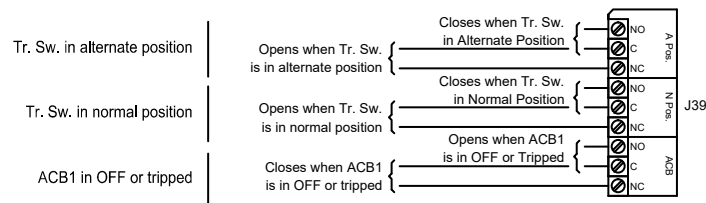
- Notes:
- 1 - Controller is phase sensitive. Incoming lines must be connected in ABC sequence.
 - 2 - Field wiring and lug sizes are based on copper conductors only. Do not use aluminium conductors.

Circuit Breaker (CB) Field Wiring according to Bending Space (AWG or MCM). TERMINALS L1 - L2 - L3

Bending Space	3 " (76 mm)						
	(Use Copper Conductors Only)						
HP Voltage	5	7.5	10	15	20	25	30
208	1x (10 to 1)	1x (8 to 1)	1x (8 to 1)	1x (6 to 1)	1x (4 to 1)	1x (3 to 1)	1x (2 to 1)
220 to 240	1x (10 to 1)	1x (10 to 1)	1x (8 to 1)	1x (6 to 1)	1x (4 to 1)	1x (4 to 1)	1x (3 to 1)
380 to 416	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (8 to 1)	1x (8 to 1)	1x (6 to 1)	1x (6 to 1)
440 to 480	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (8 to 1)	1x (8 to 1)	1x (6 to 1)
600	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (10 to 1)	1x (8 to 1)	1x (8 to 1)

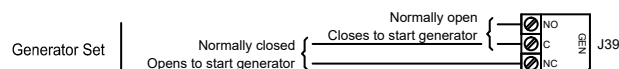
Remote Alarm Terminals (TSB1)



Terminals Wire Size:
24 - 12 AWG
0.5 Nm



Control Terminals (TSB1)

Terminals Wire Size:
24 - 12 AWG
0.5 Nm



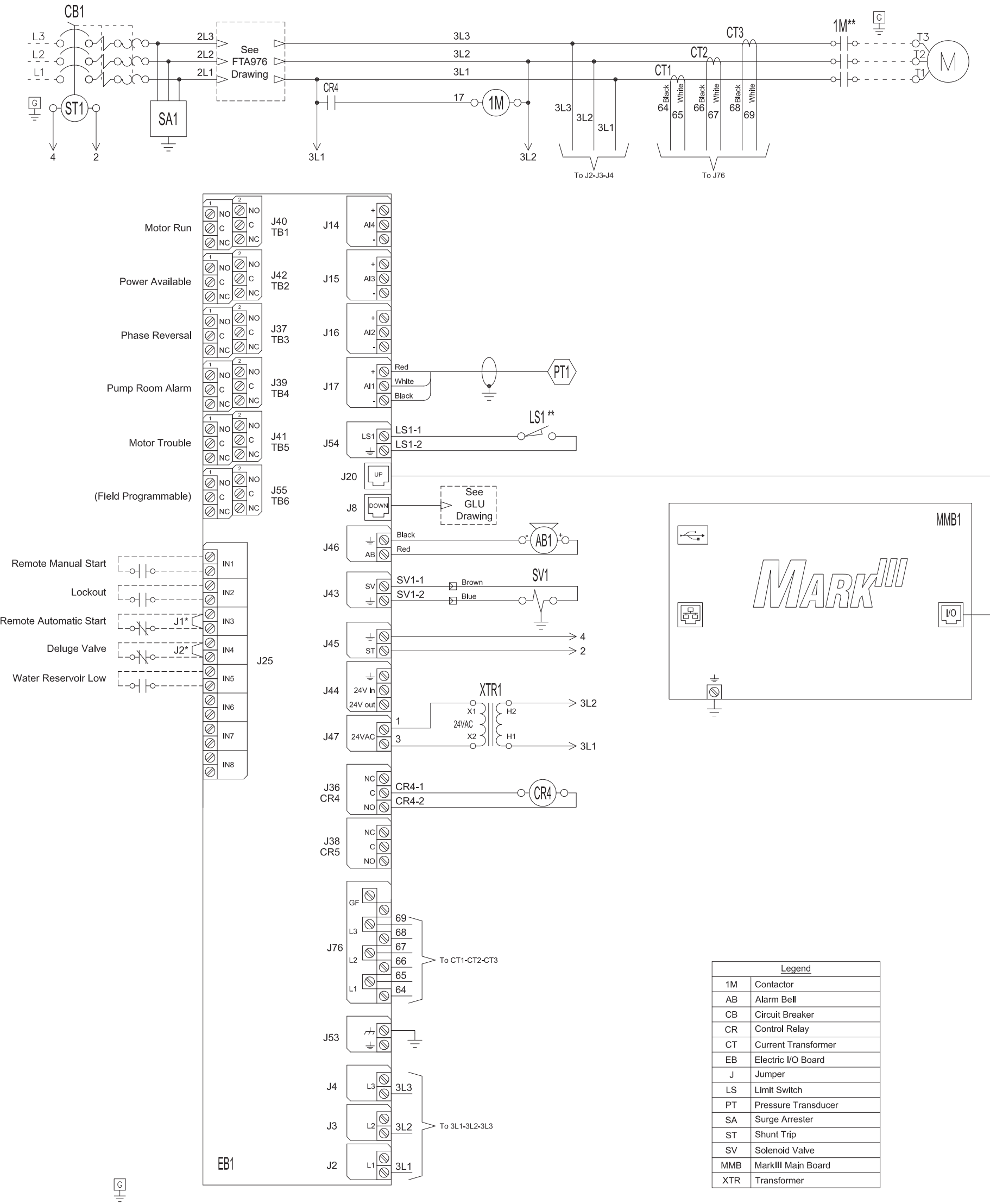
 THIRD ANGLE PROJECTION	SIZE	A	BY	DATE	 Firetrol, Inc. © Firetrol, Inc. Not for construction. Subject to change without notice.	RELEASED		-	-	CIR	CIR	11-11-19
	DRAWN BY	CIR	11-10-19	REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE		
	FINAL APPROVAL	CIR	11-10-19	FIELD CONNECTIONS		FTA976		DRAWING NUMBER				
	LIMITED SERVICE CONTROLLER POWER TRANSFER SWITCH FOR GEN-SET AND SECOND UTILITY POWER SOURCE		FC976-61			DWG REV	-	ECN NO	-	SHEET 1 OF 1		

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MARK^{III} Limited Service Electric Fire Pump Controllers - Across The Line Starting With Power Transfer Switch



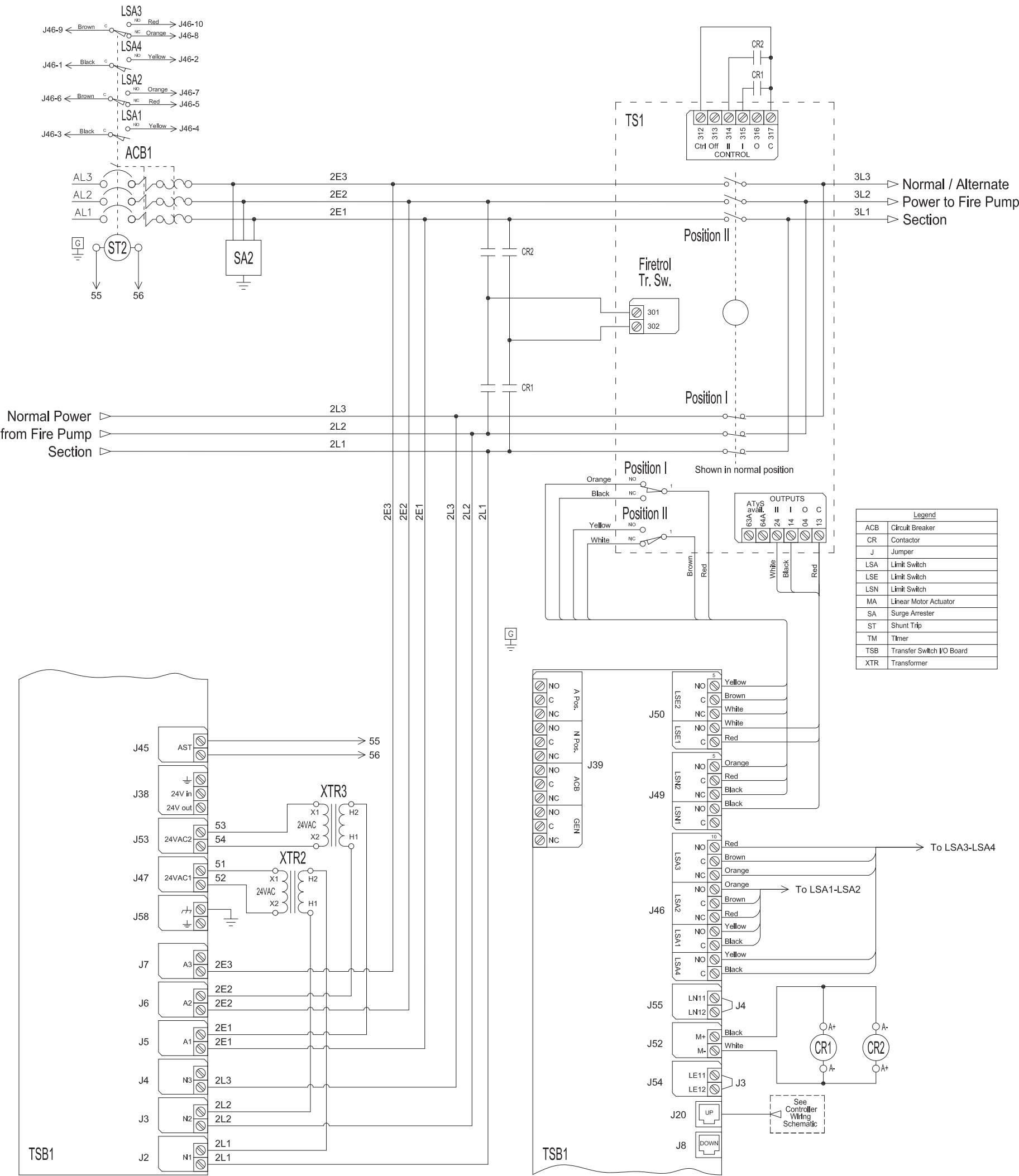
* Remove jumper to use this feature
** Contact closes when emergency start is in "ON" position

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 THIRD ANGLE PROJECTION	SIZE B	BY	DATE	 Firetrol, Inc. © Firetrol, Inc. Not for construction. Subject to change without notice.	REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE	
	DRAWN BY	JMW	12-2-19		WIRING SCHEMATIC		FTA750 WITH FTA976		DRAWING NUMBER WS750-80			
	FINAL APPROVAL	CIR	12-2-19		LIMITED SERVICE FIRE PUMP CONTROLLER WITH POWER TRANSFER SWITCH		CDL		DWG REV -		ECN NO -	SHEET 1 OF 1

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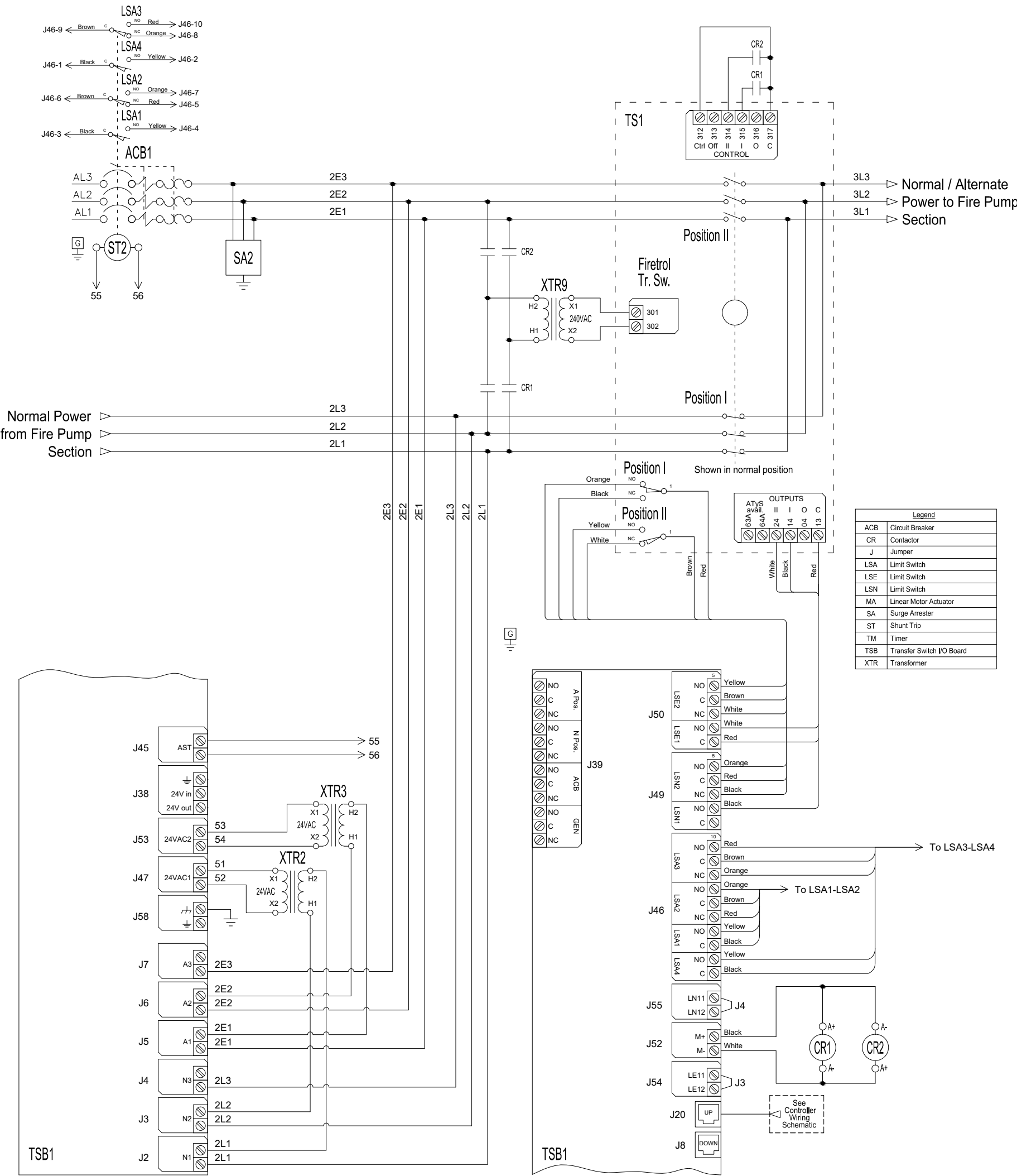
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 THIRD ANGLE PROJECTION	SIZE B	BY	DATE	 Firetrol, Inc. © Firetrol, Inc. Not for construction. Subject to change without notice.	REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE	
	DRAWN BY	JMW	12/10/19		WIRING SCHEMATIC	FTA976		DRAWING NUMBER WS976-61				
	FINAL APPROVAL	CIR	12/10/19		LIMITED SERVICE CONTROLLER POWER TRANSFER SWITCH FOR GEN-SET AND SECOND UTILITY POWER SOURCE, 220-240V, 3 PHASE		DWG REV -		ECN NO -		SHEET 1 OF 1	

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