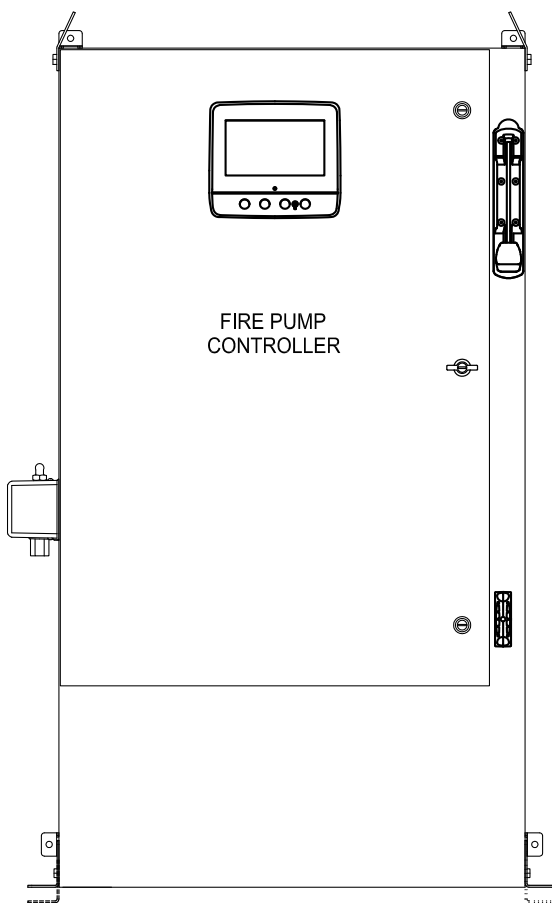


MARK^{III+} Electric Fire Pump Controller - Autotransformer Starting



(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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Dimensional Drawing Lookup Table



FTA1800

MARK^{III+} Electric Fire Pump Controllers - Autotransformer Starting

UNITS WITHOUT POWER TRANSFER SWITCH

SHORT-CIRCUIT (WITHSTAND) CURRENT RATING (See Chart Below)					
DWG NO	DD1800-70	DD1800-71	DD1800-72	DD1800-73	DD1000-842
LINE VOLTAGE	HP RANGE	HP RANGE	HP RANGE	HP RANGE	HP RANGE
208	5-30	40-60	75-150	N/A	200
220-240	5-30	40-75	100-200	N/A	250
380-400-415	5-60	75-125	150-300	350	400-450
440-480	5-60	75-150	200-450	N/A	500
600	5-75	100-200	250-500	N/A	N/A

UNITS WITH POWER TRANSFER SWITCH

SHORT-CIRCUIT (WITHSTAND) CURRENT RATING (See Chart Below)						
DWG NO	DD1800-80	DD1800-81	DD1800-82	DD1800-83	DD1800-84	DD1000-843
LINE VOLTAGE	HP RANGE	HP RANGE	HP RANGE	HP RANGE	HP RANGE	HP RANGE
208	5-30	40-60	75-100	125-150	N/A	200
220-240	5-30	40-75	100-125	150-200	N/A	250
380-400-415	5-60	75-125	150-200	250-300	350	400-450
440-480	5-60	75-150	200-250	300-400	450	500
600	5-75	100-200	250-350	400-500	N/A	N/A

MARK III SCCR SELECTION FTA1000, 1250, 1300, 1350, 1800, 1930

SCCR CODE	200-208V 5-150HP	220-240V 5-200HP	380-415V 5-350HP	440-480V 5-400HP	550-600V 5-500HP	200-208V 200HP	220-240V 250-400HP	380-415V 400-500HP	440-480V 450-500HP
M Standard	100kA	100kA	100kA	100kA	N/A	50kA	50kA	50kA	50kA
N Intermediate	150kA	150kA	150kA	150kA	N/A	N/A	N/A	N/A	N/A
P High	200kA	200kA	200kA	200kA	N/A	100kA	100kA	100kA	100kA
Q Intermediate	N/A	N/A	N/A	N/A	100kA	N/A	N/A	N/A	N/A
R Standard	N/A	N/A	N/A	N/A	50kA	N/A	N/A	N/A	N/A

Consult Factory for Voltages or Horsepowers Not Shown

	SIZE	A	BY	DATE	<p>© Firetrol, Inc. Not for construction. Subject to change without notice.</p>	REVISED VOLTAGE/POWER CHART		C	-	CIR	CIR	3-30-23
	DRAWN BY	JMW	12-16-19	REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE		
	FINAL APPROVAL	CIR	12-16-19	LOOKUP TABLE		FTA1800		DRAWING NUMBER				
	DIMENSIONAL DRAWING LOOKUP TABLE FOR AUTOTRANSFORMER FIRE PUMP CONTROLLERS WITH HP/VOLTAGE/WITHSTAND RATING					ED1800-10			DWG REV	C	ECN NO	-

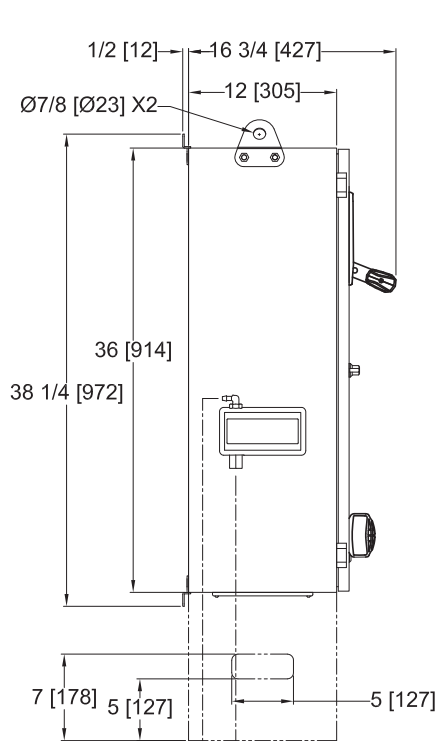
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Dimensions and Shipping Weight



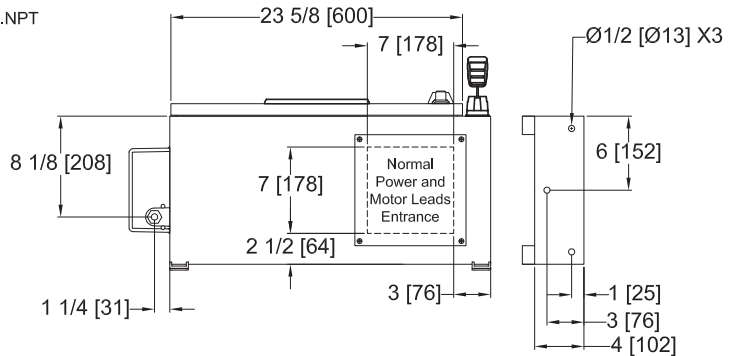
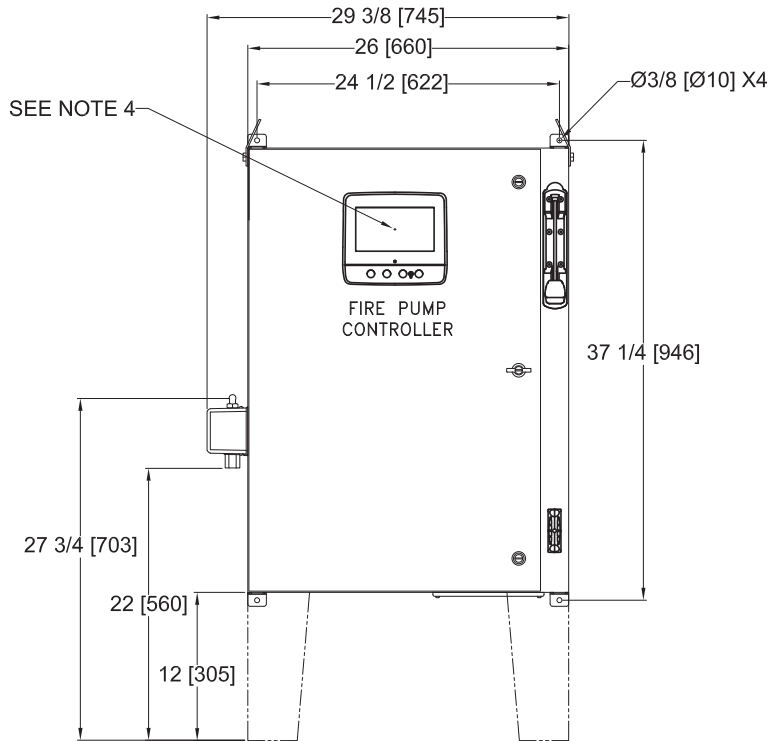
FTA1800

MARK^{III+} Electric Fire Pump Controllers - Autotransformer Starting



--- Sensing Line Connection - 1/2" F.NPT
 --- Drain - 3/8" M.TUBE

NOTE:
 DRAIN CONNECTION MUST BE PIPED TO WASTE DRAIN. FAILURE TO CONNECT TO A FLOOR DRAIN WILL RESULT IN UNSAFE CONDITIONS OF STANDING WATER AROUND CONTROLLER.



VOLTAGE/POWER TABLE	
LINE VOLTAGE	MOTOR HORSEPOWER
208	5-30
220-240	5-30
380-400-415	5-60
440-480	5-60
600	5-75
APPROX SHIPPING WT: 230 [104]	

- NOTES:**
- STANDARD: NEMA 2
 - STANDARD PAINT: TEXTURED RED RAL3002
 - ALL DIMENSIONS IN INCHES [MILLIMETERS]
SHIPPING WEIGHT IN POUNDS [KG]
 - CENTER OF MARK III + SCREEN: 29 5/8 [751] FROM BOTTOM OF ENCLOSURE (NO FEET)
 - BOTTOM CONDUIT ENTRANCE THROUGH REMOVABLE GLAND PLATE RECOMMENDED
 - USE WATERTIGHT CONDUIT AND CONNECTOR ONLY
 - PROTECT EQUIPMENT AGAINST DRILLING CHIPS
 - DOOR SWING EQUAL TO DOOR WIDTH
 - DRAWINGS FOR CONSTRUCTION PURPOSES MUST BE OBTAINED FROM FIRETROL OR THE LOCAL FIRETROL REPRESENTATIVE
 - SEISMIC MOUNTING TO BE RIGID WALL AND BASE ONLY

	SIZE A	BY	DATE	<p>© Firetrol, Inc. Not for construction. Subject to change without notice.</p>	REMOVED BELL AND UPDATED THE MARK ^{III} TO MARK ^{III} PLUS	A	-	CJR	CJR	10-27-21	
	DRAWN BY	CJR	11-5-19		REVISION DESCRIPTION	REV	ECN NO	BY	APP	DATE	
	FINAL APPROVAL	CJR	11-5-19		DIMENSIONS & SHIPPING WEIGHT	FTA1800	DRAWING NUMBER				
					AUTOTRANSFORMER FIRE PUMP CONTROLLER	DD1800-70					
					DWG REV	A	ECN NO	-	SHEET 1 OF 1		

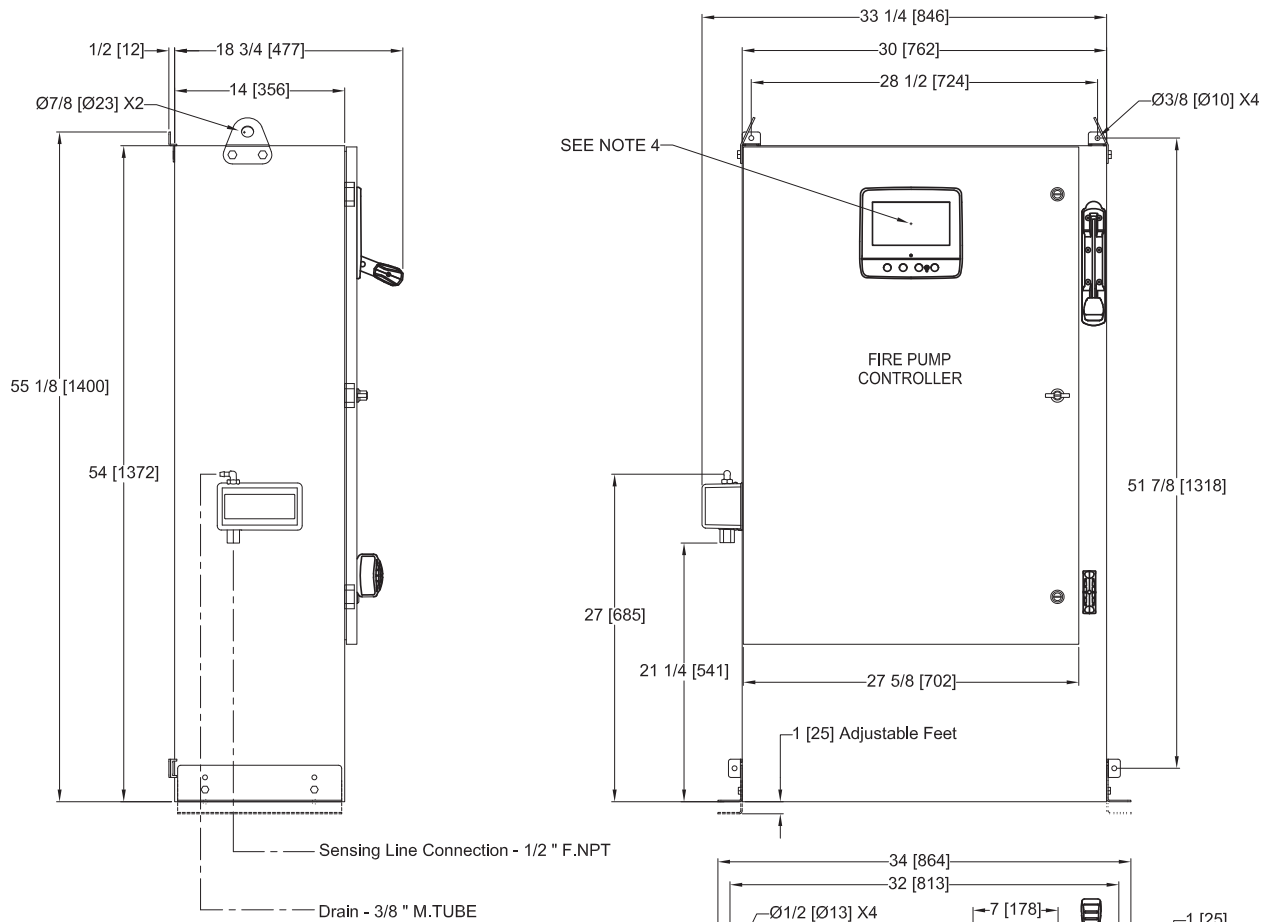
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Dimensions and Shipping Weight



FTA1800

MARK^{III+} Electric Fire Pump Controllers - Autotransformer Starting



NOTE:
DRAIN CONNECTION MUST BE PIPED TO WASTE DRAIN. FAILURE TO CONNECT TO A FLOOR DRAIN WILL RESULT IN UNSAFE CONDITIONS OF STANDING WATER AROUND CONTROLLER.

LINE VOLTAGE	MOTOR HORSEPOWER
208	40-60
220-240	40-75
380-400-415	75-125
440-480	75-150
600	100-200
APPROX SHIPPING WEIGHT: 350 [159]	

- NOTES:
- STANDARD: NEMA 2
 - STANDARD PAINT: TEXTURED RED RAL3002
 - ALL DIMENSIONS IN INCHES [MILLIMETERS] SHIPPING WEIGHT IN POUNDS [KG]
 - CENTER OF MARK III + SCREEN: 47 5/8 [1208] FROM BOTTOM OF ENCLOSURE
 - BOTTOM CONDUIT ENTRANCE THROUGH REMOVABLE GLAND PLATE RECOMMENDED
 - USE WATERTIGHT CONDUIT AND CONNECTOR ONLY
 - PROTECT EQUIPMENT AGAINST DRILLING CHIPS
 - DOOR SWING EQUAL TO DOOR WIDTH
 - DRAWINGS FOR CONSTRUCTION PURPOSES MUST BE OBTAINED FROM FIRETROL OR THE LOCAL FIRETROL REPRESENTATIVE
 - SEISMIC MOUNTING TO BE RIGID WALL AND BASE ONLY

THIRD ANGLE PROJECTION	SIZE	A	BY	DATE
	DRAWN BY	CIR	11-5-19	
	FINAL APPROVAL	CIR	11-5-19	



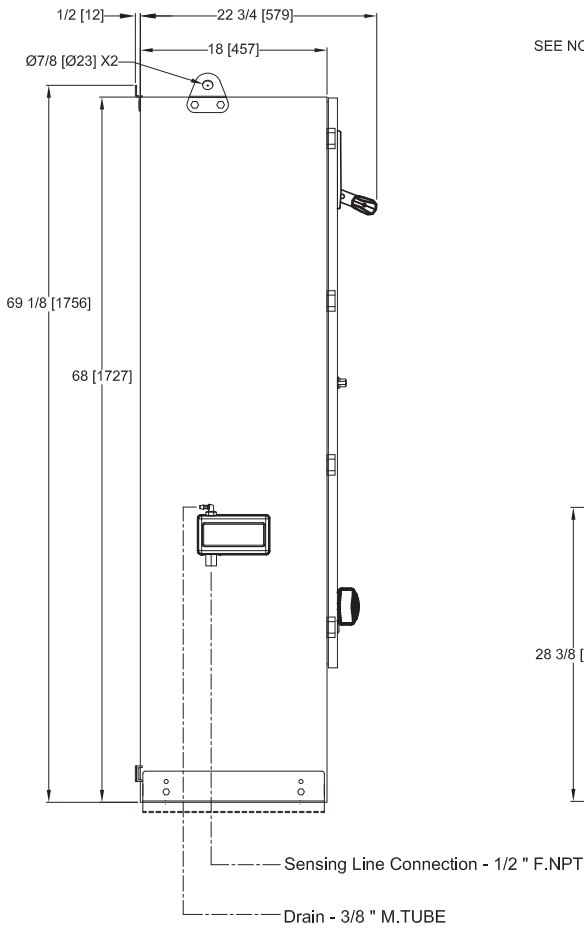
REMOVED BELL AND UPDATED THE MARKIII TO MARKIII PLUS		B	-	CIR	CIR	10-27-21
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
DIMENSIONS & SHIPPING WEIGHT		FTA1800		DRAWING NUMBER		
AUTOTRANSFORMER FIRE PUMP CONTROLLER				DD1800-71		
		DWG REV	B	ECN NO	-	SHEET 1 OF 1

Dimensions and Shipping Weight

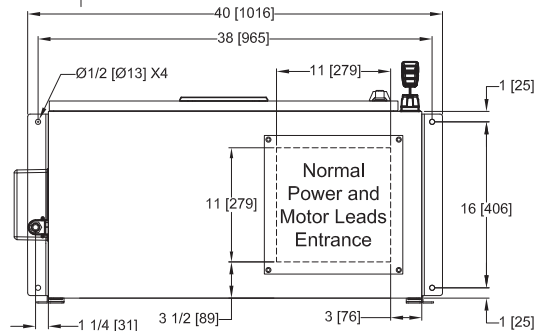
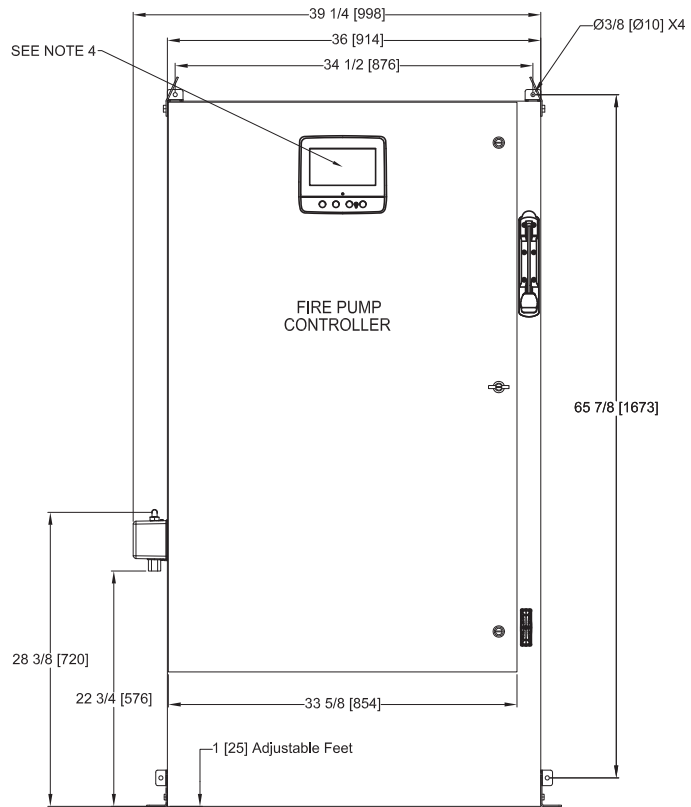


FTA1800

MARK^{III+} Electric Fire Pump Controllers - Autotransformer Starting



NOTE:
 DRAIN CONNECTION MUST BE PIPED TO WASTE DRAIN. FAILURE TO CONNECT TO A FLOOR DRAIN WILL RESULT IN UNSAFE CONDITIONS OF STANDING WATER AROUND CONTROLLER.



VOLTAGE/POWER TABLE	
LINE VOLTAGE	MOTOR HORSEPOWER
208	75-150
220-240	100-200
380-400-415	150-300
440-480	200-450
600	250-500
APPROX SHIPPING WEIGHT: 765 [347]	

- NOTES:**
- STANDARD: NEMA 2
 - STANDARD PAINT: TEXTURED RED RAL3002
 - ALL DIMENSIONS IN INCHES [MILLIMETERS] SHIPPING WEIGHT IN POUNDS [KG]
 - CENTER OF MARK III + SCREEN: 61 5/8 [1564] FROM BOTTOM OF ENCLOSURE
 - BOTTOM CONDUIT ENTRANCE THROUGH REMOVABLE GLAND PLATE RECOMMENDED
 - USE WATERTIGHT CONDUIT AND CONNECTOR ONLY
 - PROTECT EQUIPMENT AGAINST DRILLING CHIPS
 - DOOR SWING EQUAL TO DOOR WIDTH
 - DRAWINGS FOR CONSTRUCTION PURPOSES MUST BE OBTAINED FROM FIRETROL OR THE LOCAL FIRETROL REPRESENTATIVE
 - SEISMIC MOUNTING TO BE RIGID WALL AND BASE ONLY

THIRD ANGLE PROJECTION	SIZE	A	BY	CIR	DATE	11-5-19
	DRAWN BY	CIR	11-5-19			
	FINAL APPROVAL	CIR	11-5-19			



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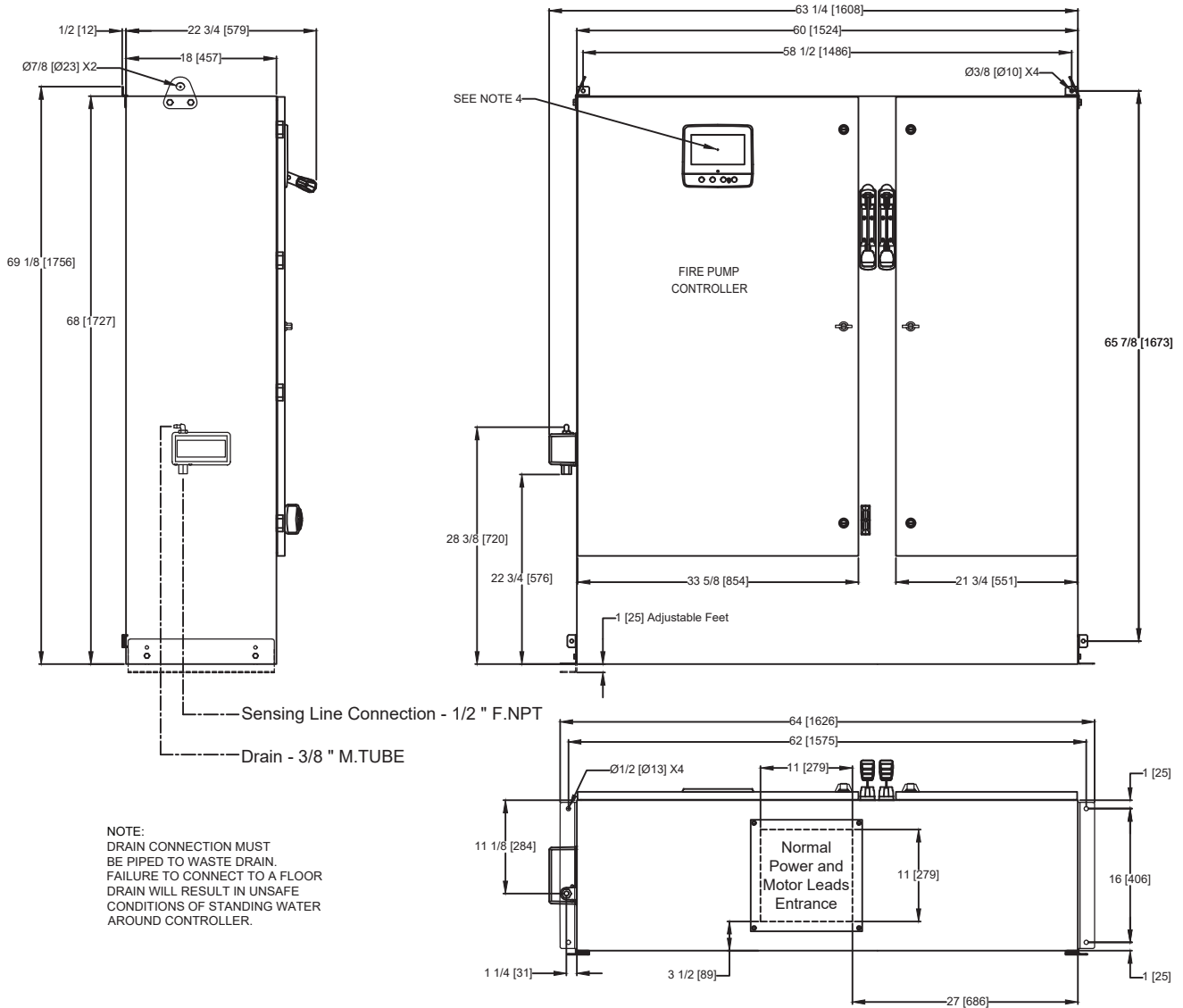
REMOVED BELL AND UPDATED THE MARKIII TO MARKIII PLUS		B	-	CIR	CIR	10-27-21
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
DIMENSIONS & SHIPPING WEIGHT		FTA1800		DRAWING NUMBER		
AUTOTRANSFORMER FIRE PUMP CONTROLLER		DD1800-72		CDL		
DWG REV	B	ECN NO	-	SHEET 1 OF 1		

Dimensions and Shipping Weight



FTA1800

MARK^{III+} Electric Fire Pump Controllers - Autotransformer Starting



NOTE:
DRAIN CONNECTION MUST BE PIPED TO WASTE DRAIN. FAILURE TO CONNECT TO A FLOOR DRAIN WILL RESULT IN UNSAFE CONDITIONS OF STANDING WATER AROUND CONTROLLER.

VOLTAGE/POWER TABLE	
LINE VOLTAGE	MOTOR HORSEPOWER
208	NA
220-240	NA
380-400-415	350
440-480	NA
600	NA
APPROX SHIPPING WT: 850 [386]	

NOTES:

- STANDARD: NEMA 2
- STANDARD PAINT: TEXTURED RED RAL3002
- ALL DIMENSIONS IN INCHES [MILLIMETERS]
SHIPPING WEIGHT IN POUNDS [KG]
- CENTER OF MARK III + SCREEN: 61 5/8 [1564] FROM BOTTOM OF ENCLOSURE
- BOTTOM CONDUIT ENTRANCE THROUGH REMOVABLE GLAND PLATE RECOMMENDED
- USE WATERTIGHT CONDUIT AND CONNECTOR ONLY
- PROTECT EQUIPMENT AGAINST DRILLING CHIPS
- DOOR SWING EQUAL TO DOOR WIDTH
- DRAWINGS FOR CONSTRUCTION PURPOSES MUST BE OBTAINED FROM FIRETROL OR THE LOCAL FIRETROL REPRESENTATIVE
- SEISMIC MOUNTING TO BE RIGID WALL AND BASE ONLY

	SIZE	A	BY	CIR	DATE	11-5-19	<p>© Firetrol, Inc. Not for construction. Subject to change without notice.</p>	REVISED VOLTAGE/POWER TABLE		C	-	CIR	CIR	3-30-23
	DRAWN BY	CIR	REVISION DESCRIPTION					REV	ECN NO	BY	APP	DATE		
	FINAL APPROVAL	CIR	DIMENSIONS & SHIPPING WEIGHT		FTA1800			DRAWING NUMBER		DD1800-73			CDL	
	AUTOTRANSFORMER FIRE PUMP CONTROLLER		DWG REV	C	ECN NO	-		SHEET 1 OF 1						



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BY		DD/MM/YY
DRAWN BY	ACD	07/02/23
FINAL APPROVAL	FC	23/02/23

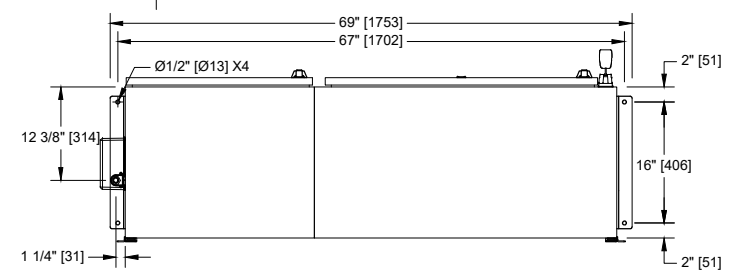
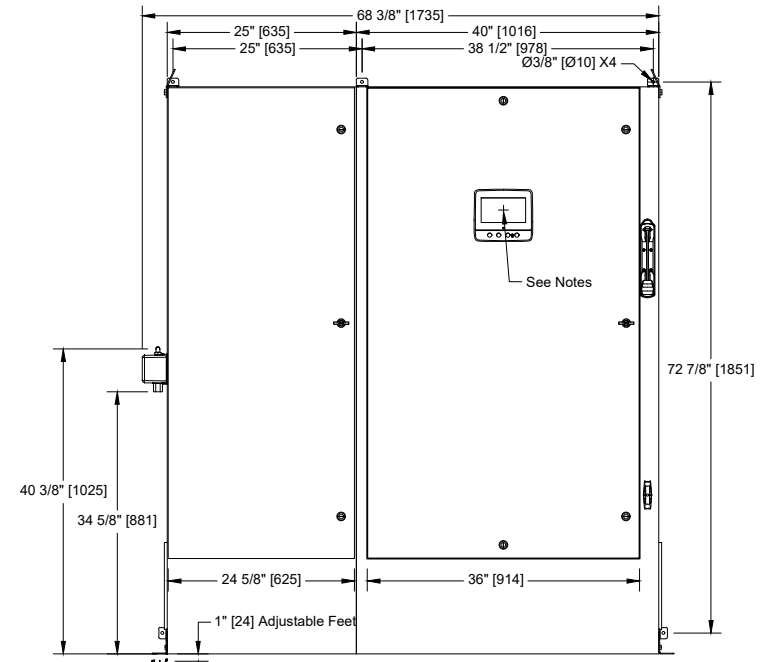
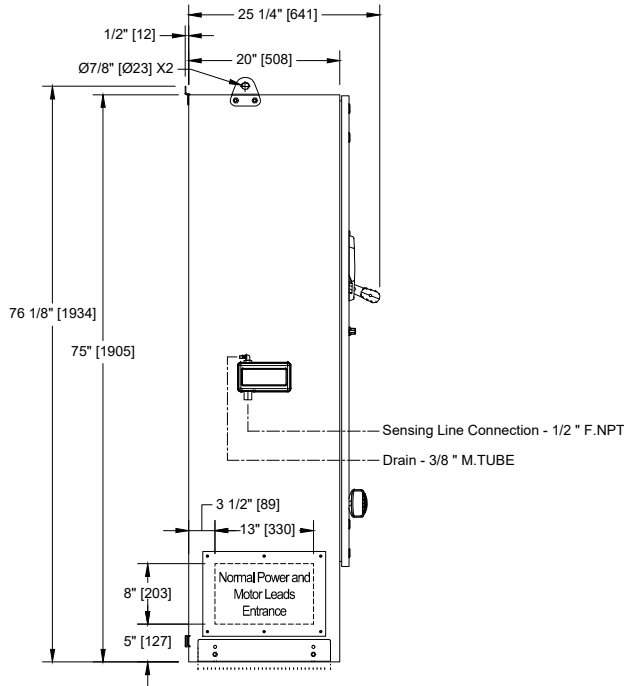
ELECTRIC FIRE PUMP CONTROLLER

MODEL: FTA1350/FTA1800/FTA1930

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
DD1000-842/E
DWG REV. 0
SHEET 1 OF 1

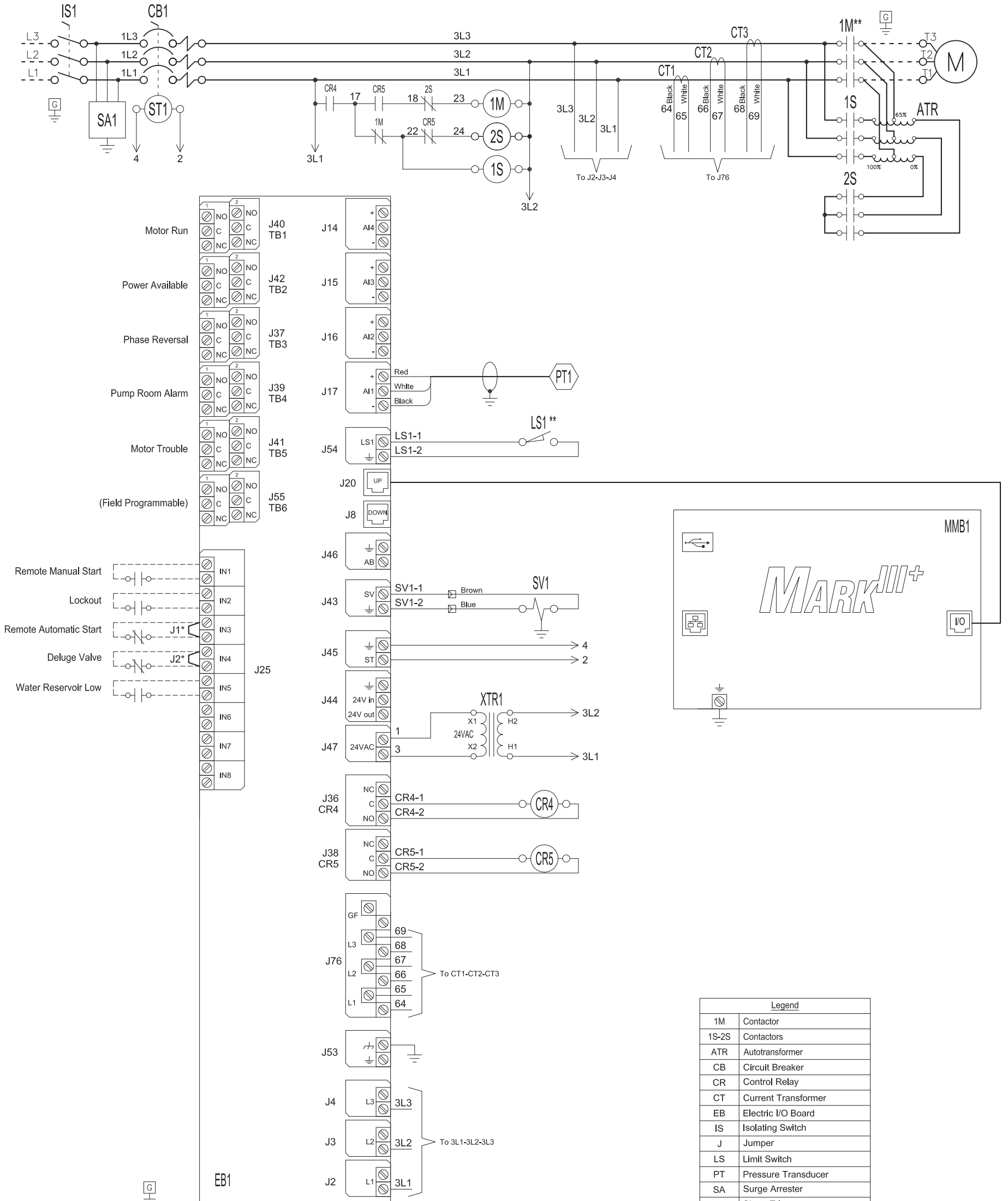


Voltage / Power Table		
Voltage	Min HP	Max HP
208	200	
220 - 240	250	
380 - 400 - 415	400	450
440 - 480	500	
600	Not Applicable	

Notes:

- Standard NEMA: NEMA 2
- Standard paint : textured red RAL 3002.
- All dimensions are in inches [millimeters].
- Center of the screen: 58-3/4" [1491] from bottom (no feet).
- Side conduit entrance through removable gland plate recommended.
- Use watertight conduit and connector only.
- Protect equipment against drilling chips.
- Door swing equal to door width.

MARK III+ Electric Fire Pump Controllers - Autotransformer Starting



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

Legend	
1M	Contactor
1S-2S	Contactors
ATR	Autotransformer
CB	Circuit Breaker
CR	Control Relay
CT	Current Transformer
EB	Electric I/O Board
IS	Isolating Switch
J	Jumper
LS	Limit Switch
PT	Pressure Transducer
SA	Surge Arrester
ST	Shunt Trip
SV	Solenoid Valve
MMB	Mark III Main Board
XTR	Transformer

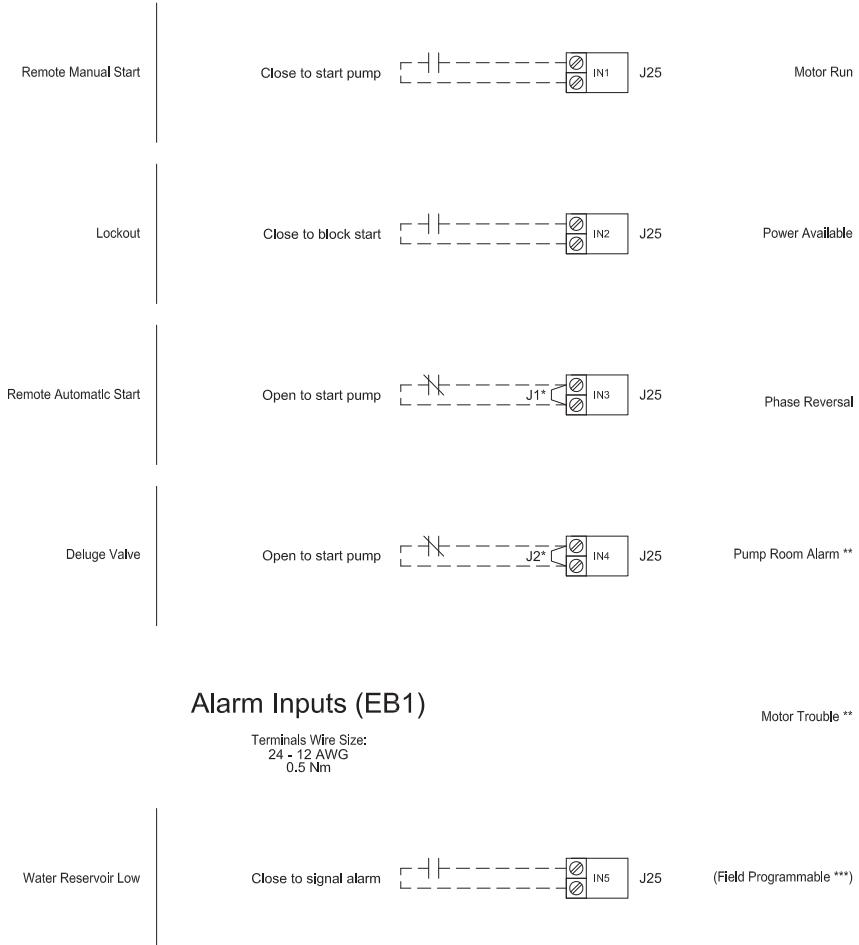
Drawing for information only.
 Manufacturer reserves the right to modify this drawing without notice.
 Contact manufacturer for "As Built" drawing.

	SIZE	B	BY	JMW	DATE	12/2/19	<p>© Firetrol, Inc. Not for construction. Subject to change without notice.</p>	UPDATED TO MARK III+ REVISION DESCRIPTION				A	-	TEF	TEF	10/27/21
	DRAWN BY	JMW	DATE	12/2/19	WIRING SCHEMATIC AUTOTRANSFORMER FIRE PUMP CONTROLLER			FTA1800	REV	ECN NO	BY	APP	DATE	DRAWING NUMBER WS1800-70		
	FINAL APPROVAL	CIR	DATE	12/2/19	AUTOTRANSFORMER FIRE PUMP CONTROLLER				DWG REV	A	ECN NO	-				SHEET 1 OF 1

MARK^{III+} Electric Fire Pump Controllers - Autotransformer Starting

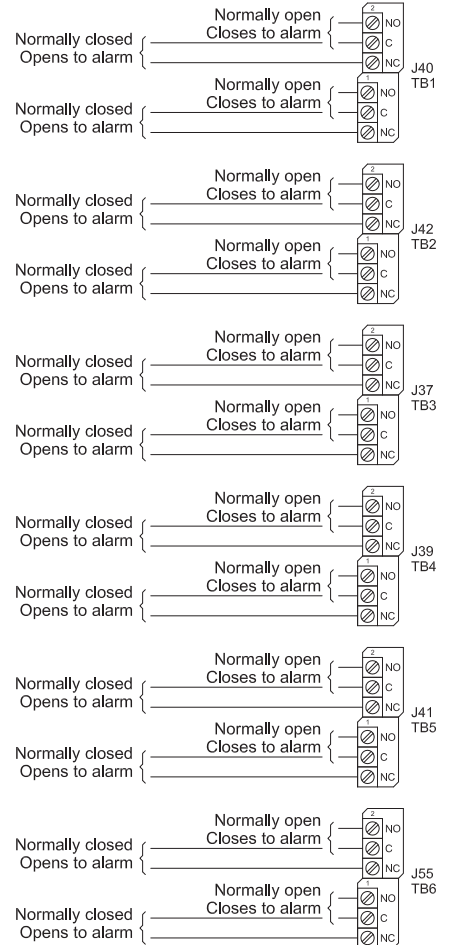
Control Terminals (EB1)

Terminals Wire Size:
24 - 12 AWG
0.5 Nm



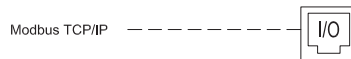
Remote Alarm Terminals (EB1)

Terminals Wire Size:
24 - 12 AWG
0.5 Nm



Network Connection (VMB1)

Shielded Female Connector RJ45



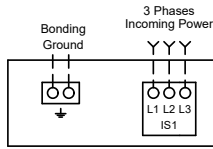
* Remove jumper to use this feature
** Re-assignable
*** Not available on FTA1930 models

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

	SIZE	A	BY	CJR	DATE	11-10-19	<p>© Firetrol, Inc. Not for construction. Subject to change without notice.</p>	RELEASED	-	-	CJR	CJR	11-11-19
	DRAWN BY	CJR	11-10-19	REVISION DESCRIPTION	REV	ECN NO		BY	APP	DATE			
	FIELD CONNECTIONS	FTA1800	DRAWING NUMBER		FC1800-60			CDL					
	FINAL APPROVAL	CJR	11-10-19	AUTOTRANSFORMER FIRE PUMP CONTROLLER		DWG REV		ECN NO	SHEET 1 OF 1				

MARK^{III+} Electric Fire Pump Controllers - Autotransformer 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.

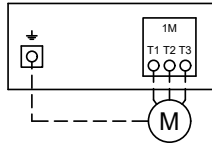
COPPER CONDUCTORS for Isolating Switch (IS1).

Field Wiring According to Bending Space (AWG or MCM). Terminals L1 - L2 - L3

Bending Space	5" (127 mm)							8" (203 mm)			
	HP	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 (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 (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 (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	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)						

Motor Terminals



COPPER CONDUCTORS for Motor Connection (1M).

Field Wiring According to Bending Space (AWG or MCM). Terminals T1 - T2 - T3

HP	5	7.5	10	15	20	25	30	40	50	60
	208	1x (10 to 2)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (4 to 2)	1x (3 to 2/0)	1x (2 to 2/0)	1x (1/0 to 3/0)	1x (3/0)
220 to 240	1x (10 to 2)	1x (10 to 2)	1x (8 to 2)	1x (6 to 2)	1x (4 to 2)	1x (4 to 2/0)	1x (3 to 2/0)	1x (1/0 to 3/0)	1x (2/0 to 3/0)	1x (3/0)
380 to 416	1x (10 to 2)	1x (10 to 2)	1x (10 to 2)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 1/0)	1x (4 to 2)	1x (3 to 2/0)	1x (1 to 2/0)
440 to 480	1x (10 to 2)	1x (10 to 2)	1x (10 to 2)	1x (10 to 2)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 2)	1x (4 to 2/0)	1x (3 to 2/0)
600	1x (10 to 2)	1x (10 to 2)	1x (10 to 2)	1x (10 to 2)	1x (10 to 2)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 2)	1x (4 to 2/0)

HP	75	100	125	150	200	250	300	350	400	450	500
	208	1x (300)	2x (2/0 to 300)	2x (4/0 to 300)	2x (250 to 300)	2x (400 to 600)	-----	-----	-----	-----	-----
220 to 240	1x (250 to 300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (350 to 500)	2x (500 to 600)	-----	-----	-----	-----	-----
380 to 416	1x (1/0 to 3/0)	1x (3/0)	1x (250 to 300)	1x (300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (300)	2x (400 to 500)	2x (500 to 600)	2x (600)	-----
440 to 480	1x (1 to 1/0)	1x (2/0 to 3/0)	1x (3/0)	1x (4/0 to 300)	2x (1/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (300)	2x (350 to 500)	2x (400 to 600)	2x (500 to 600)
600	1x (3 to 1/0)	1x (1 to 1/0)	1x (2/0 to 3/0)	1x (3/0)	1x (250 to 300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (250 to 300)	2x (300)	2x (350 to 500)

	SIZE	A	BY	DATE
	DRAWN BY	CIR	11-10-19	
	FINAL APPROVAL	CIR	11-10-19	



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REVISED TO AGREE W/ MANUFACTURING		A	-	CIR	CIR	1-29-21
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
FIELD CONNECTIONS		FTA1800		DRAWING NUMBER		
AUTOTRANSFORMER FIRE PUMP CONTROLLER				FC1800-61		
LINE AND MOTOR FIELD WIRE TERMINAL CAPACITY		DWG REV	A	ECN NO	-	SHEET 1 OF 1