Submittal Package

FTA1000-FTA1930

Mark^{III+} Full Service Electric Fire Pump Controller

Project Information

Project: _____

Customer: _____

Engineer: _____

Pump Manufacturer: _____

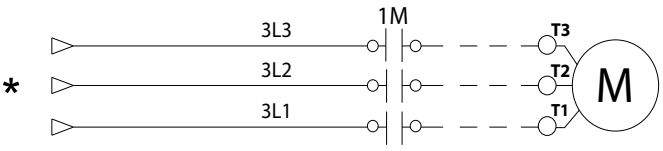
Note: The drawings included in this package are for controllers covered under our standard offering. Actual AS BUILT drawings may differ from what is shown in this package.

June 2026

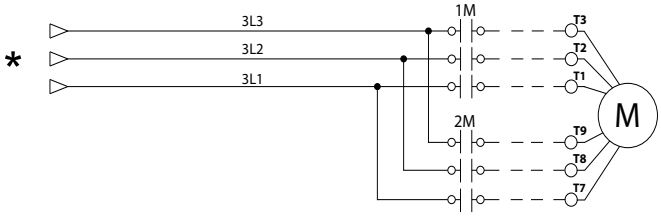
Full Service Electric Fire Pump Controller

Select starting method

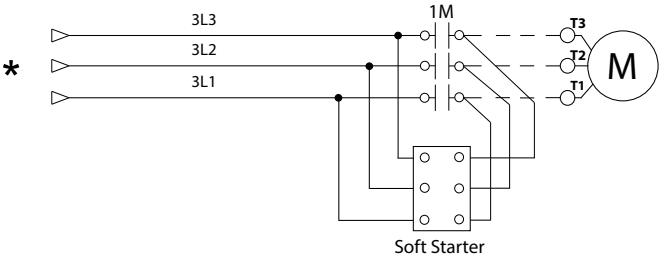
☐ FTA1000
Across the line



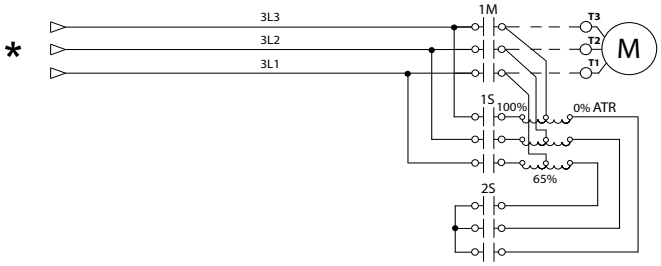
☐ FTA1250
Partwinding



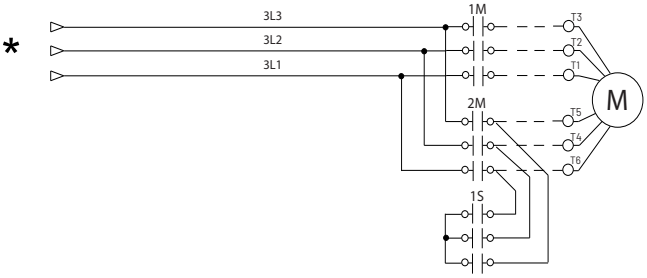
☐ FTA1930
Soft Start Soft Stop



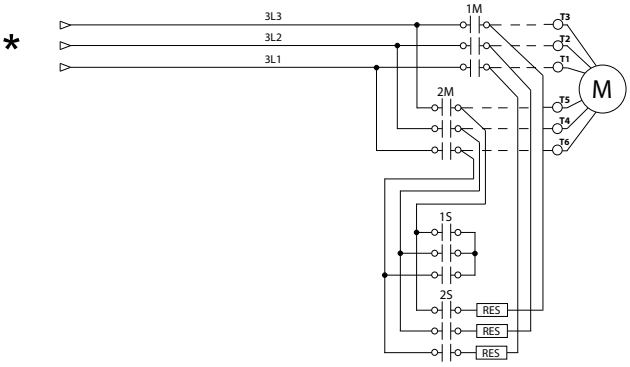
☐ FTA1800
Autotransformer



☐ FTA1300
Wye-Delta Open



☐ FTA1350
Wye-Delta Closed



*From normal incoming power through Disconnecting Means (IS/CB)
*For Disconnecting Means details see page 4

This is a Marketing document. Please consult factory for more information.
Manufacturer reserves the right to modify this information without notice

Model Number Selection Guide

Example: FTA1300-AM75HH-xx

Starting Method
- ☐ 1000 - Across-The-Line
- ☐ 1250 - Part Winding
- ☐ 1300 - Wye-delta, open transition
- ☐ 1350 - Wye-delta, closed transition
- ☐ 1800 - Autotransformer
- ☐ 1930 - Solid-State Soft Start/Stop

Start/Stop Options
- ☐ A - Automatic/Manual start with manual stop only (default). Field configurable to automatic start with timed permissive stop after minimum run time and manual start with manual stop only.
- ☐ C - For Manual only operation of Foam Controllers

Modifications

Three Phase Voltage
- ◯ A - 220-240 Volt, 60 Hertz (230V)
- ◯ AZ - 220-230 Volt, 50 Hertz
- ◯ B - 440-480 Volt, 60 Hertz (460 V)
- ◯ BZ - 415 Volt, 50 Hertz
- ◯ C - 550-600 Volt, 60 Hertz (575 V)
- ◯ F - 380 Volt, 60 Hertz
- ◯ FZ - 380 Volt, 50 Hertz
- ◯ FF - 400 Volt, 60 Hertz
- ◯ FX - 400 Volt, 50 Hertz
- ◯ H - 208 Volt, 60 Hertz
- ◯ HH - 200 Volt, 60 Hertz

Horsepower Rating
- ☐ 03 - 3 HP
- ☐ 05 - 5 HP
- ☐ 07 - 7 1/2 HP
- ☐ 10 - 10 HP
- ☐ 15 - 15 HP
- ☐ 20 - 20 HP
- ☐ 25 - 25 HP
- ☐ 30 - 30 HP
- ☐ 40 - 40 HP
- ☐ 50 - 50 HP
- ☐ 60 - 60 HP
- ☐ 75 - 75 HP
- ☐ 100 - 100 HP
- ☐ 125 - 125 HP
- ☐ 150 - 150 HP
- ☐ 200 - 200 HP
- ☐ 250 - 250 HP
- ☐ 300 - 300 HP
- ☐ 350 - 350 HP
- ☐ 400 - 400 HP
- ☐ 450 - 450 HP
- ☐ 500 - 500 HP

Select Short Circuit Current Rating

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

Code	200-208V 200 HP	220-240V 250-400 HP	380-415V 400-500 HP	440-480V 450-500 HP
M - Standard	☐ 50kA	☐ 50kA	☐ 50kA	☐ 50kA
N - Intermediate	N/A	N/A	N/A	N/A
P - High	☐ 100kA	☐ 100kA	☐ 100kA	☐ 100kA
Q - Intermediate	N/A	N/A	N/A	N/A
R - Standard	N/A	N/A	N/A	N/A

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Full Service Electric Fire Pump Controller

Standard, Listings, Approvals and Certifications	• **Built to NFPA 20** • **Underwriters Laboratory (UL) -** UL218 - Fire Pump Controllers • **FM Global -** Class 1321/1323	
Enclosure	**Protection Rating:** ☐ Standard: NEMA 2	
	Optional	
	☐ NEMA 12	☐ NEMA 4X-304 sst painted
	☐ NEMA 3	☐ NEMA 4X-304 sst brushed finish
	☐ NEMA 3R	☐ NEMA 4X-316 sst painted
	☐ NEMA 4	☐ NEMA 4X-316 sst brushed finish
	Accessories • Gland plate(s) • Lifting Lugs • Keylock handle	**Paint Specifications** • Red RAL3002 • Powder coating • Glossy textured finish
Ambient Temperature Rating	**Standard:** ☐ 4°C to 40°C / 39°F to 104°F	**Optional:** ☐ 4°C to 55°C / 39°F to 131°F
Surge Suppression	Surge arrestor rated to suppress surges above line voltage	
Disconnecting Means	• Isolating switch and circuit breaker assembly: - Door interlocked in the ON position - Isolating switch rated not less than 115% of motor full load current - Circuit breaker continuous rating not less than 115% of motor full load current - Overcurrent sensing non-thermal type, magnetic only - Instantaneous trip setting of not more than 20 times the motor full load current • Common flange mounted operating handle	
Service Entrance Rating	Suitable as service entrance equipment (not applicable for installations in Canada).	
Emergency Start Handle	• Flange mounted • Pull and latch activation	• Integrated limit switch • Across the line start (direct on line)
Locked Rotor Protector	• Operate shunt trip to open circuit breaker • Factory set at 600% of motor full load current	• Trip between 8 and 20 seconds
Electrical Readings	• Voltage phase to phase (normal power) • Amperage of each phase when motor is running	
Pressure Readings	• Continuous system pressure display • Cut-in and Cut-out pressure settings	

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Full Service Electric Fire Pump Controller

Pressure and Event recorder	• Pressure readings with date stamp • Event recording with date stamp • Under regular maintained operation, events are stored in memory for the life of the controller. • Data viewable on operator interface display screen • Downloadable by USB port to external memory device or wireless connection to manufacturers App (mobile device).
Pressure Sensing	• Pressure transducers and run test solenoid valve assembly for fresh water application • Pressure sensing line connection 1/2" Female NPT • Drain connection 3/8" • Rated for 0-500PSI working pressure (standard display at 0-300PSI) • Externally mounted with protective cover
Audible Alarm	Alarm buzzer - 85dB at 3 meters
Visual Indications	• Power available • Motor run • Periodic test • Manual start • Deluge valve start • Remote automatic start • Remote manual start • Emergency start • Pump on demand/Automatic start • Pump room temperature (°F or °C) • Lockout
Visual & Audible Alarms	**Visual** • Control voltage not healthy • Invalid cut-in • Lock rotor current • Loss of power • Low ambient temperature • Low water level • Motor trouble • Phase reversal (normal power) • Overcurrent • Overvoltage • Phase loss L1 • Phase loss L2 • Phase loss L3 • Phase unbalanced • Pressure transducer fault detected • Pump on demand • Pump room alarm • Service required • Undercurrent • Undervoltage • Check weekly test solenoid • Weekly test cut-in reached **Visual and audible** • Fail to start

Remote Alarm Contacts	**DPDT-8A-250V.AC**
	• Power available
	• Phase reversal
	• Motor run
	• Common pump room alarm (field re-assignable)**
	  • Overvoltage
	  • Undervoltage
	  • Phase unbalance
	  • Low pump room temperature
	  • High Pump room temperature
	• Common motor trouble (field re-assignable)**
	  • Overcurrent
	  • Fail to start
	  • Undercurrent
	  • Ground fault
	• Free (field programmable)**

**Firetrol reserves the right to use any of these three alarm points for special specific application requirements.

Full Service Electric Fire Pump Controller

Mark^{III+} Operator Interface	• Embedded microcomputer with software PLC logic • 7.0" color touch screen (HMI technology) • Upgradable software • Multi-language		
Communication Protocol Capability	• Protocol: Modbus • Connection type: Shielded female connector RJ45 • Frame Format: TCP/IP • Addresses: See Technical Bulletin - Modbus TCP/IP Communication Protocol for Electric Fire Pump Controllers		
Operation	**Automatic Start**	• Start on pressure drop • Remote start signal from automatic device • Deluge valve start	
	Manual Start	• Start pushbutton • Run test pushbutton • Remote start from manual device	
	Stopping	• Manual with Stop pushbutton • Automatic after expiration of minimum run timer ***	
	Timers	Field Adjustable & Visual Countdown	• Minimum run timer ***(off delay) • Sequential start timer (on delay) • Periodic test timer
	Actuation	Visual Indication	• Pressure • Non-pressure
	Mode		• Automatic • Non-automatic

***Can only be used if approved by the AHJ

This is a Marketing document. Please consult factory for more information.
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Options & Modifications

ANTI-CONDENSATION SPACE HEATERS (POWER SOURCE BY OTHERS)

Option	Description
☐ - J	Space Heater, 120V Externally Powered with Circuit Breaker & Thermostat
☐ - K	Space Heater, 120V Externally Powered with Circuit Breaker & Humidistat
☐ - M	Space Heater, 240V Externally Powered with Circuit Breaker & Thermostat
☐ - N	Space Heater, 240V Externally Powered with Circuit Breaker & Humidistat
☐ - JKP	Space Heater, 120V Externally Powered with Circuit Breaker, Thermostat andHumidistat in Parallel
☐ - MNP	Space Heater, 240V Externally Powered with Circuit Breaker, Thermostatand Humidistat in Parallel

PRESSURE TRANSDUCERS, SOLENOID VALVES, PLUMBING

Option	Description
☐ - B1	Wetted Parts including Pressure Sensor and Test Solenoid, 500 PSI (34.5 Bar) Fresh Water (For Factory Calibration Purposes Only)
☐ - C1	Wetted Parts including Pressure Sensor and Test Solenoid, 300 PSI (20.4 Bar), Sea Water
☐ - D1	Wetted Parts including Pressure Sensor and Test Solenoid, 500 PSI (34.5 Bar), Sea Water
☐ - SP1	Low Suction Pressure Transducer, Fresh Water, 0-300 PSI (20.4 Bar) with Visible Indication and Output Contacts
☐ - SP2	Low Suction Pressure Transducer, Sea Water, 0-300 PSI (20.4 Bar) with Visible Indication and Output Contacts

FOAM PUMP APPLICATIONS

Option	Description
Required for Foam	
☐ - LR1	Extra Alarm Output Contacts, Pump Operating (2 Form-C)
☐ - LK1	Alarm Output Contacts, Fail to Start
☐ - LK2	Alarm Output Contacts, Low Pump Room Temperature
☐ - LK3	Alarm Output Contacts, Reservoir Low
Optional for Foam	
☐ - DVC	Operation, Dump Valve Control

Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.

ALARMS

Option	Description
☐ - AC	Extra Alarm Output Contacts, Pump Operating (2 Form-C)
☐ - AM	Alarm Output Contacts, Fail to Start
☐ - AV	Alarm Output Contacts, Low Pump Room Temperature
☐ - AW	Alarm Output Contacts, Reservoir Low
☐ - AYI	Configurable Low Suction Pressure, Visible/Output Contacts with External Digital Input
☐ - BW1	Extra Alarm Output Contacts, Phase Failure/Phase Reversal
☐ - BY1	Alarm Output Contacts, Overcurrent
☐ - CTS1	Configurable Low Suction Pressure, Visible/Output Contacts with Suction Pressure Transducer
☐ - EG1	Alarm Visible, Main Relief Valve Open with Alarm Output Contacts
☐ - EJ1	Flow Meter On External Dry Contact Input, Visual Indication and Alarm Contacts
☐ - JR	Visible Indicator, Jockey Pump Operating
☐ -JT	Alarm, Audible/Visible, Jockey Pump Trouble
☐ - KH	Alarm Output Contacts, Common Alarm
☐ - P1	Alarm, Audible/Visible, Built-In 120V Supervisory System (Includes Visible Supervisory Voltage Normal Indication and Audible Pump Operating, Phase Failure and Phase Reversal Indication
☐ - PE	Alarm Output Contacts, Low System Pressure (Pump on Demand)
☐ - PT	Alarm, Audible/Visible, Built-In 240V Supervisory System (Includes Visible Supervisory Voltage Normal Indication and Audible Pump Operating, Phase Failure and Phase Reversal Indication

Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.

MISCELLANEOUS

Option	Description
☐ - ED2	Normal Source Load Shedding with Adjustable Time Delay to Remove Non-Critical Loads Before Starting
☐ - EL	Series Pumping Operation, High Zone Controller
☐ - EM	Series Pumping Operation, Mid Zone Controller
☐ - EN	Series Pumping Operation, Low Zone Controller
☐ - IEC	Marking, CE with External Wet Parts (Requires NEMA Type 12 (IP54) Enclosure as Minimum)
☐ - MZN	Neutral Lug, Service Entrance, Non-Insulated Bonded to Enclosure
☐ - OSP	Seismic Certification compliant to OSHPD (CA) for rigid base or wall mount only
☐ - PK	Terminal Blocks, Extra Remote Start
☐ - PY	Output Contacts, Motor Space Heater, Externally Powered
☐ - S	Tropicalization
☐ - SEI	Seismic Certification compliant to CBC 2019, IBC 2018 for rigid base or wall mount only
☐ - USBX	Data Port, External USB
☐ - Y55	Controller Temperature Rating, 55°C (131°F) Ambient Temperature
☐ - ZPM1	Data Port, RS-485 Modbus RTU
☐ - XCR	Export Packaging (Wooden Crating to Conform to IPPC Standards)

OTHER OPTIONS

Option	Description
☐	
☐	
☐	
☐	

Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.

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	BY	DD/MM/YY
DRAWN BY	MLC	04/10/24
FINAL APPROVAL	FC	07/11/24

ELECTRIC FIRE PUMP CONTROLLER

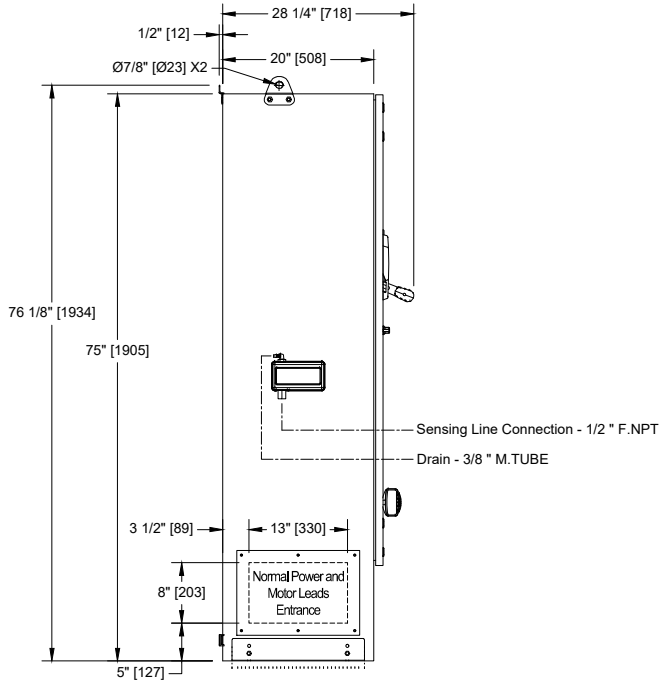
MODEL:FTA1350/FTA1800/FTA1930

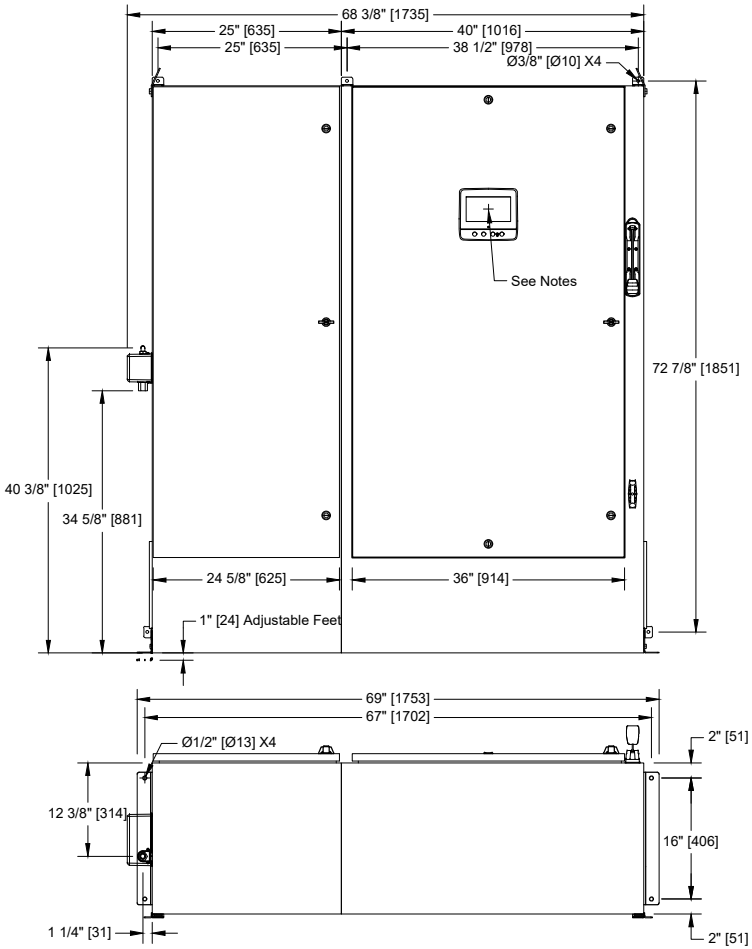
BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

NYC Dpt of Building Approved

THIRD ANGLE PROJECTION

DRAWING NUMBER DD1000-958/E
DWG REV. 0
SHEET 1 OF 1





Voltage / Power Table		
Voltage	Min HP	Max HP
208	200	
220 - 240	250	
380 - 400 - 415	350	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.

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	BY	DD/MM/YY
DRAWN BY	ACD	11/01/24
FINAL APPROVAL	FC	11/01/24

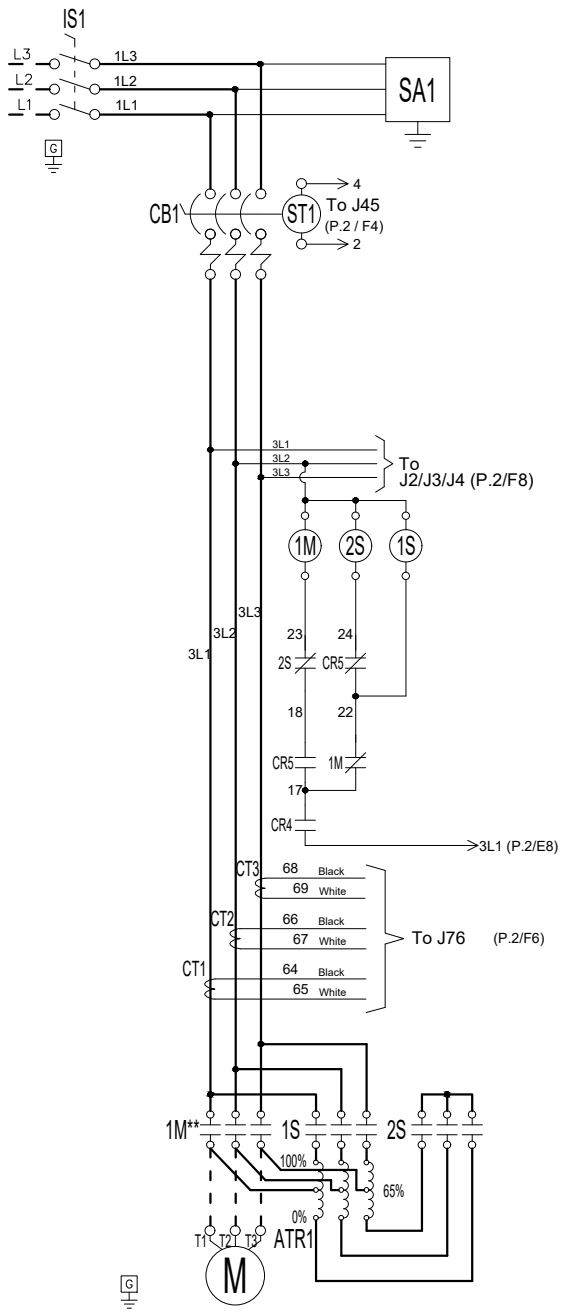
ELECTRIC FIRE PUMP CONTROLLER
REDUCED VOLTAGE / AUTOTRANSFORMER

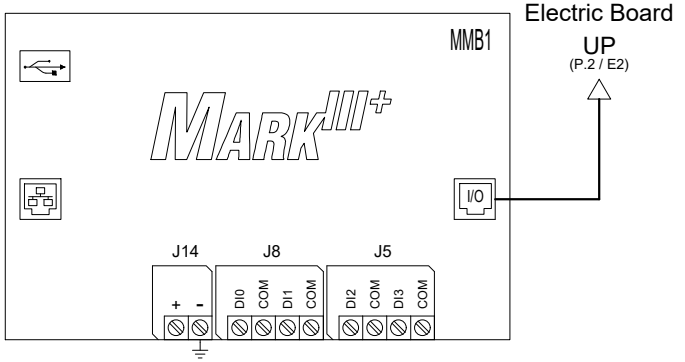
MODEL:FTA1800

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

NYC Dpt of Building Approved

DRAWING NUMBER WS1800-800/E
DWG REV. 1
SHEET 1 OF 2





Legend	
1M	Contactor
1S-2S	Contactors
AB	Alarm Bell
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	Main Board
XTR	Transformer

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	BY	DD/MM/YY
DRAWN BY	ACD	11/01/24
FINAL APPROVAL	FC	11/01/24

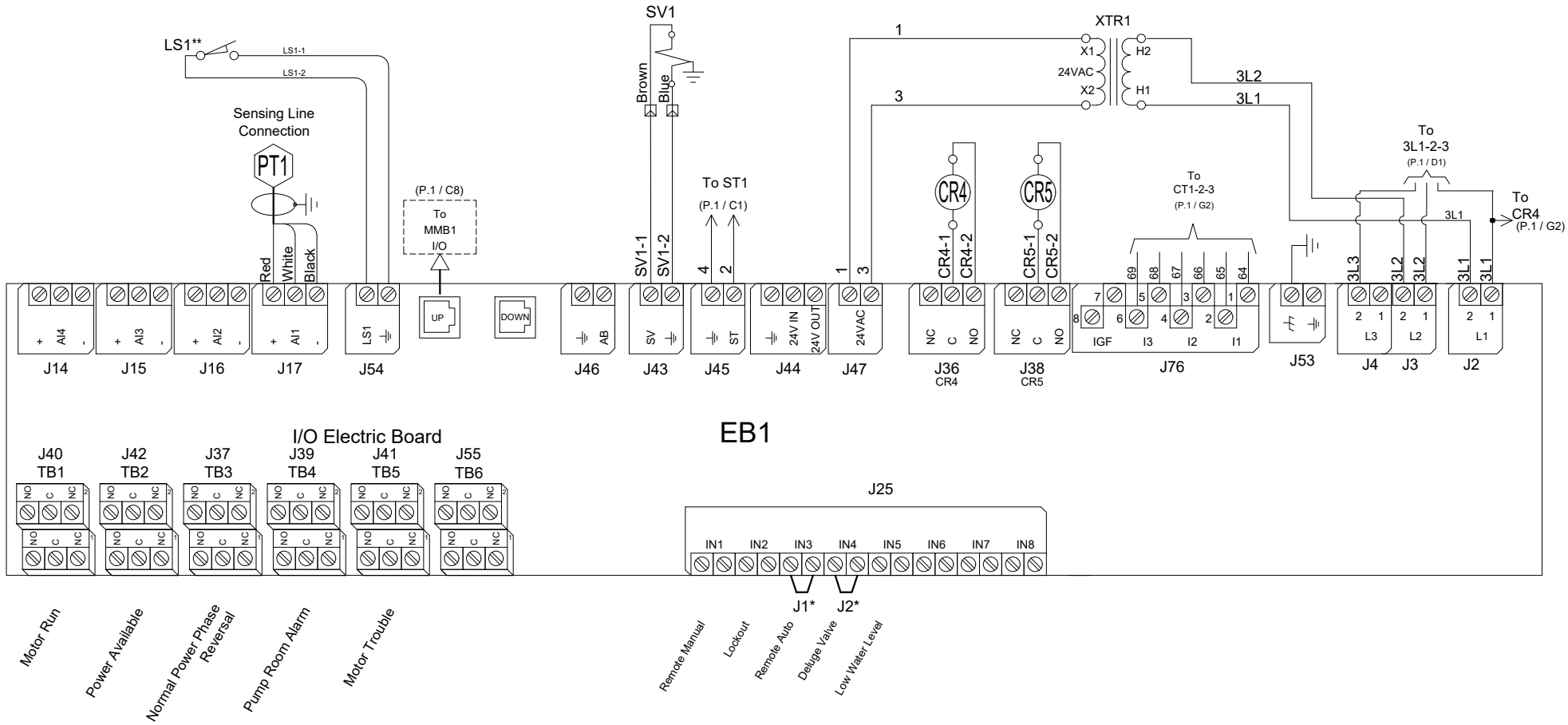
ELECTRIC FIRE PUMP CONTROLLER
REDUCED VOLTAGE / AUTOTRANSFORMER

MODEL:FTA1800

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

NYC Dpt of Building Approved

DRAWING NUMBER WS1800-800/E
DWG REV. 1
SHEET 2 OF 2



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

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		BY	DD/MM/YY
DRAWN BY		MLC	04/10/24
FINAL APPROVAL		FC	07/11/24

ELECTRIC FIRE PUMP CONTROLLER

MODEL:FTA1350/FTA1800/FTA1930

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

NYC Dpt of Building Approved

DRAWING NUMBER FC1000-908/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

Bending Space	5 " (127 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 (4 to 1/0)	1x (3 to 1/0)	1x (1 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 / 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 350)	1x (3/0 to 350)	1x (250)	1x (300 to 500)	1x (500)	2x (4/0 to 500)	2x (300 to 500)	3x (4/0 to 500)	3x (250 to 500)	4x (3/0 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 350)	1x (2/0 to 350)	1x (3/0 to 350)	1x (250 to 500)	1x (350 to 500)	1x (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).***

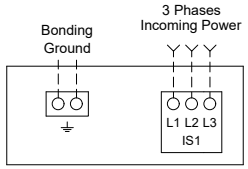
Field Wiring According to Bending Space (AWG or MCM). Terminals L1 - L2 - L3

Bending Space	5 " (127 mm)							8 " (203 mm)		10 " (254 mm)
HP / Voltage	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)

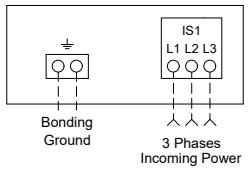
Bending Space	12 " (305 mm)				16 " (406 mm)***						
HP / Voltage	75	100	125	150	200	250	300	350	400	450	500
208	2x (2/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (350 to 500)	3x (300 to 500)	--------	--------	--------	--------	--------	--------
220 to 240	1x (350) ** N/A	2x (3/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (500)	3x (400 to 500)	--------	--------	--------	--------	--------
380 to 416	1x (3/0 to 250)	1x (250)	Consult Factory	1x (500)	Consult Factory	2x (300 to 500)	2x (500)	3x (300 to 500)	3x (350 to 500)	3x (400 to 500)	--------
440 to 480	1x (1/0 to 3/0)	1x (3/0)	1x (250)	1x (300 to 350)** 1x (250) 90°C *	2x (3/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (400 to 500)	2x (500)	2x (500) 90°C *	3x (350 to 500)
600	1x (1 to 1/0)	1x (2/0 to 250)	1x (4/0 to 250)	1x (4/0 to 250)	1x (350 to 500)	1x (500)	Consult Factory	2x (300 to 500)	2x (350 to 500)	2x (400 to 500)	2x (500)
Bending Space	5 " (127 mm)	8 " (203 mm)			12 " (305 mm)						

*For standard enclosure, use 90°C aluminium wire. Consult Factory for Use of Conductors Rated Lower than 90°C.
** Consult Factory
*** Aluminum is not permitted in Canada.

Power Terminals



***Only for 16"(406 mm) bending space



Notes:
1 - For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.
2 - Controller suitable for use as service equipment in USA.
3 - Controller use as service equipment prohibited in Canada.
4 - For more accurate motor connections refer to motor manufacturer or motor nameplate.
5 - 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.

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		BY	DD/MM/YY
DRAWN BY		MLC	04/10/24
FINAL APPROVAL		FC	07/11/24

ELECTRIC FIRE PUMP CONTROLLER

MODEL:FTA1800

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

NYC Dpt of Building Approved

DRAWING NUMBER FC1000-905/E
DWG REV. 1
SHEET 1 OF 1

COPPER CONDUCTORS for Motor Connection (1M).
Field Wiring According to Bending Space (AWG or MCM). Terminals T1 - T2 - T3

HP / Voltage	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)	1x (4/0 to 300)
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 to 3/0)	1x (2/0 to 3/0)	1x (3/0)
380 to 416	1x (10 to 2/0)	1x (10 to 2/0)	1x (10 to 2/0)	1x (8 to 2/0)	1x (8 to 2/0)	1x (6 to 2/0)	1x (6 to 2/0)	1x (4 to 2/0)	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 2/0)	1x (10 to 2/0)	1x (10 to 2/0)	1x (10 to 2/0)	1x (10 to 2/0)	1x (8 to 2/0)	1x (8 to 2/0)	1x (6 to 2/0)	1x (6 to 2/0)	1x (4 to 2/0)

HP / Voltage	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 to 600)	2x (400 to 600)	2x (500 to 600)	2x (600)	--------
440 to 480	1x (1 to 2/0)	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 500)	2x (500 to 600)
600	1x (3 to 2/0)	1x (1 to 3/0)	1x (2/0 to 300)	1x (3/0 to 300)	2x (1 to 300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 600)	2X (250 to 600)	2x (300 to 600)	2x (350 to 600)

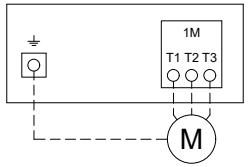
ALUMINUM CONDUCTORS for Contactor (1M).***
Field Wiring According to Bending Space (AWG or MCM). Terminals T1 - T2 - T3

HP / Voltage	5	7.5	10	15	20	25	30	40	50	60
208	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (3 to 2/0) **	1x (1 to 2/0) **	1x (1/0 to 2/0) **	1x (2/0) 90°C *	Consult Factory	1x (300)
220 to 240	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (4 to 2/0) **	1x (3 to 2/0) **	1x (2 to 2/0) **	1x (1 to 2/0) **	1x (2/0)	1x (3/0) 90°C *	Consult Factory
380 to 416	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (4 to 2/0) **	1x (2 to 2/0) **	1x (1 to 2/0) **	1x (1/0 to 2/0)
440 to 480	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (2 to 1/0)	1x (1 to 1/0)
600	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (8 to 2/0) **	1x (8 to 2/0) **	1x (4 to 2/0) **	1x (4 to 2/0) **	1x (2 to 2/0)

HP / Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (300) 90°C *	2x (4/0 to 300)	2x (300)	2x (300) 90°C *	2x (600)	--------	--------	--------	--------	--------	--------
220 to 240	1x (300) 90°C *	2x (3/0 to 300)	2x (250 to 300)	2x (300)	2x (500)	2x (600)	--------	--------	--------	--------	--------
380 to 416	1x (3/0)	Consult Factory	1x (300) 90°C *	Consult Factory	2x (4/0 to 300)	2x (300)	2x (500 to 600)	2x (600)	2x (600) 90°C *	2x (600) 90°C *	--------
440 to 480	1x (1/0 to 2/0)	1x (3/0)	Consult Factory	1x (300)	2x (3/0 to 300)	2x (250 to 300)	2x (300)	2x (300) 90°C *	2x (500)	Consult Factory	2x (600) 90°C *
600	1x (1 to 2/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (4/0 to 300)	2x (1/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (300 to 600)	2x (350 to 600)	2x (400 to 600)	2x (500 to 600)

*For standard enclosure, use 90°C aluminium wire. Consult Factory for Use of Conductors Rated Lower than 90°C.
** Option V659 required.
*** Aluminum is not permitted in Canada.

Motor Terminals



Models: FTA1800

Notes:
1 - For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.
2 - Controller suitable for use as service equipment in USA.
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		BY	DD/MM/YY
DRAWN BY		ACD	18/12/23
FINAL APPROVAL		FC	19/12/23

ELECTRIC FIRE PUMP CONTROLLER

MODEL:FTA1000

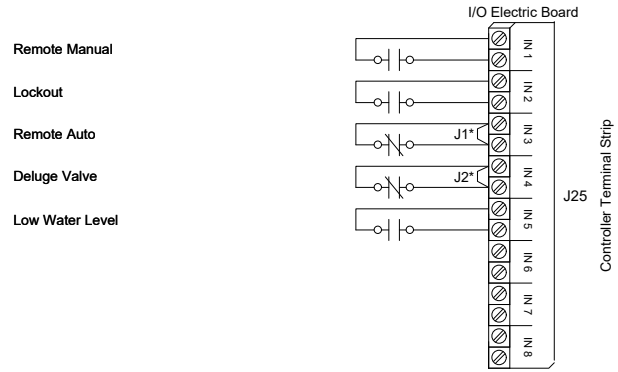
BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

NYC Dpt of Building Approved

DRAWING NUMBER FC1000-803/E
DWG REV. 0
SHEET 1 OF 1

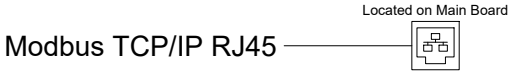
Field Connections

Terminals Wire Size:
24 - 12 AWG
0.5 Nm



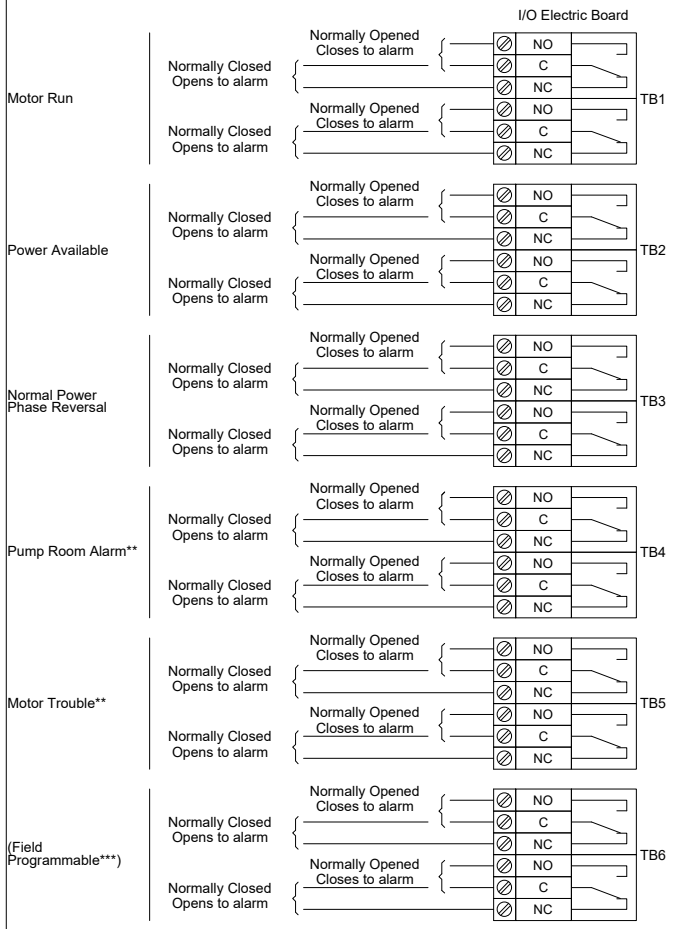
Network Connections

Terminals Wire Size:
Shielded Female Connector RJ45



Alarm Contacts

Terminals Wire Size:
24 - 12 AWG
0.5 Nm



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

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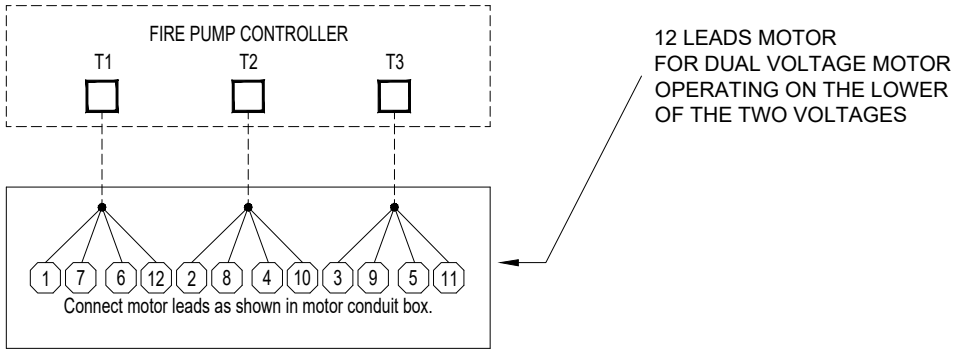
	BY	DD/MM/YY
DRAWN BY	ACD	21/11/24
FINAL APPROVAL	FC	21/11/24

ELECTRIC FIRE PUMP CONTROLLER MOTOR CONNECTIONS

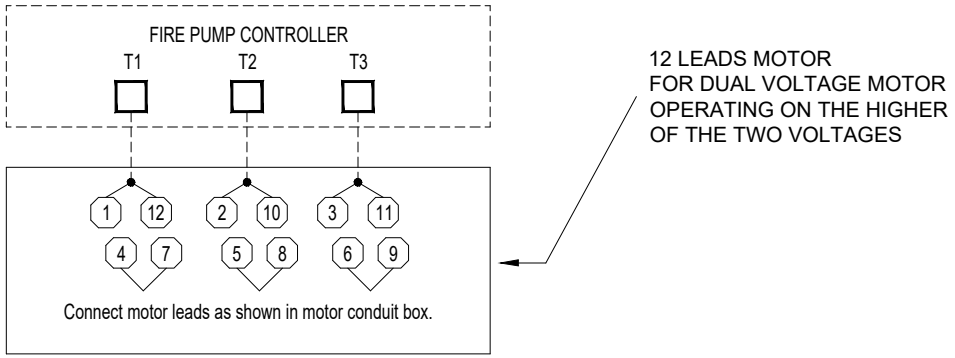
MODEL: FTA1000/FTA1800/FTA1930

DRAWING NUMBER MC1000-001/E
DWG REV. 2
SHEET 1 OF 1

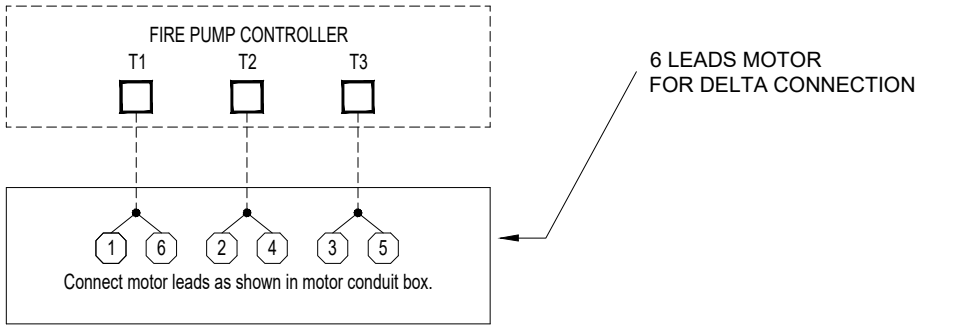
IMPORTANT : - NFPA 20-2022 Art. 9.5.3.2 :
A MOTOR TERMINAL CONNECTING DIAGRAM FOR MULTIPLE LEAD MOTORS SHALL BE FURNISHED BY THE MOTOR MANUFACTURER.



12 LEADS MOTOR
FOR DUAL VOLTAGE MOTOR
OPERATING ON THE LOWER
OF THE TWO VOLTAGES



12 LEADS MOTOR
FOR DUAL VOLTAGE MOTOR
OPERATING ON THE HIGHER
OF THE TWO VOLTAGES



6 LEADS MOTOR
FOR DELTA CONNECTION

Firetrol ASSUMES NO LIABILITY FOR INCORRECT WIRING OF THE MOTOR TO THE CONTROLLER

WARNING :
- THIS DRAWING IS FOR GENERAL INFORMATION.
- CONSULT MOTOR MANUFACTURER BEFORE CONNECTING TO CONTROLLER.
- CONNECT MOTOR LEADS AS SHOWN IN MOTOR CONDUIT BOX

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