

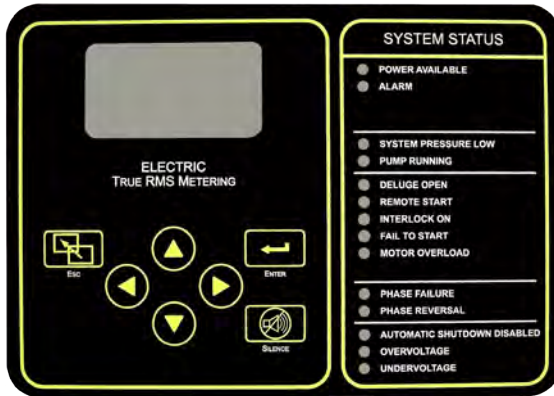


Product Description

FTA2000

Mark IIx6 Electric Fire Pump Controllers

Medium Voltage Across The Line Starting



Description—Firetrol® FTA2000 combined automatic and manual class E2 medium voltage controllers are intended for starting of squirrel cage motors driving listed fire pumps. Maximum ratings are as follows:

Max. HP	3-Phase Voltage
1500	2200 - 2500
2000	3200 - 3500
2500	4000 - 5000
3500	5000 - 7200

Approvals—Firetrol fire pump controllers are listed by Underwriters’ Laboratories, Inc., in accordance with UL218, *Standard for Fire Pump Controllers*, CSA, *Standard for Industrial Control Equipment*, and approved by Factory Mutual. They are built to meet or exceed the requirements of the approving authorities as well as NEMA and the latest editions of NFPA 20, *Installation of Centrifugal Fire Pumps*, and NFPA 70, *National Electrical Code*.

Standard Features—The following are included as standard with each controller:

- Isolating Switch - NEMA Rating, 7200 Volts, 400 Amps with external operating handle with electrical and mechanical interlocks to prevent opening of the medium voltage compartment door with the isolating switch or the main contactor closed. Interlocks prevent opening the isolating switch with the main contactor closed.
- Vacuum Contactor - NEMA Rating, 7200 Volts, 400 Amps

- Emergency Manual Run Mechanism to mechanically close motor contactor contacts in an emergency condition
- Built-in Start and Stop push-buttons to bypass automatic start circuits
- Normal-Off-Test Selector Switch - Internally mounted for functional test of control system only, requires that isolating switch be open and a separate 120 volt AC power source be supplied.
- Door mounted display/interface panel featuring a 128 x 64 pixel backlit LCD Graphical Display, Membrane Type User Control Push-buttons and easy to read LED Indicators for:
 - POWER AVAILABLE
 - ALARM
 - SYSTEM PRESSURE LOW
 - PUMP RUNNING
 - DELUGE OPEN
 - REMOTE START
 - INTERLOCK ON
 - FAIL TO START
 - MOTOR OVERLOAD
 - PHASE FAILURE
 - PHASE REVERSAL
 - AUTOMATIC SHUTDOWN DISABLED
 - OVERVOLTAGE
 - UNDERVOLTAGE
- Minimum Run Timer / Off Delay Timer
- Daylight Savings Time Option
- Weekly Test Timer
- Elapsed Time Meter
- Digital Pressure Display
- USB Host Controller and Port
- Solid State Pressure Transducer
- Data Log
- Event Log (3000 Events)
- True RMS Metering with simultaneous 3 phase display of amps and volts
- Disk Error message
- Disk Near Full message
- Pressure Error message
- Motor Over 320% message
- Local Start message
- Remote Start message
- Emergency Start message
- Fail To Start message
- Undervoltage message
- Overvoltage message
- NEMA Type 2 enclosure (IEC IP22)
- Suitable for use as Service Equipment

Product Description – Options & Modifications

SPECIAL ENCLOSURES

- E Enclosure, NEMA Type 4 (IP66), Painted Steel
- F Enclosure, NEMA Type 4X (IP66), #304 Stainless Steel, Brushed Finish
- FD Enclosure, NEMA Type 4X (IP66), #316 Stainless Steel, Brushed Finish
- FDB Enclosure, NEMA Type 4X (IP66), #316 Stainless Steel, 12 Gauge, Seam-Welded, Brushed Finish
- FDP Enclosure, NEMA Type 4X (IP66), #316 Stainless Steel, Painted Finish
- FXP Enclosure, NEMA Type 4X (IP66), #304 Stainless Steel, Painted Finish
- G Enclosure, NEMA Type 12 (IP54), Painted Steel
- T Enclosure, NEMA Type 3R (IP24), Painted Steel

ANTI-CONDENSATION SPACE HEATERS

- H Space Heater, 120V Externally Powered with Circuit Breaker
- J Space Heater, 120V Externally Powered with Circuit Breaker and Thermostat
- K Space Heater, 120V Externally Powered with Circuit Breaker and Humidistat
- L Space Heater, 240V Externally Powered with Circuit Breaker
- M Space Heater, 240V Externally Powered with Circuit Breaker and Thermostat
- N Space Heater, 240V Externally Powered with Circuit Breaker and Humidistat

PRESSURE TRANSDUCERS

- B Wetted Parts Including Pressure Sensor, 600 psi (42 Bar) Fresh Water
- C Wetted Parts Including Pressure Sensor, 300 psi (21 Bar) Sea Water
- D Wetted Parts Including Pressure Sensor, 600 psi (42 Bar) Fresh Water

ALARMS

- AC Alarm Output Contacts Extra, Pump Operating (1 Form A, 1 Form B)
- AF Alarm, Audible/Visible, Low Pump Room Temperature
- AG Alarm, Audible/Visible, Reservoir Low
- AH Alarm, Audible/Visible, Low Suction Pressure
- AM Alarm Output Contacts, Fail to Start
- AV Alarm Output Contacts, Low Pump Room Temperature (Requires option -AF)
- AW Alarm Output Contacts, Reservoir Low (Requires option -AG)
- AY Alarm Output Contacts, Low Suction Pressure (Requires option -AH)
- BW Alarm Output Contacts, Phase Failure/Phase Reversal

- BY Alarm Output Contacts, Pump Overload
- COM Alarm, Audible/Visible/Output Contacts, Low Suction Pressure with Manual Reset Option, Pressure Switch Not Included (Do Not Use Options AH or AY)
- CTS Alarm, Audible/Visible/Output Contacts, Low Suction Pressure Shutdown with Manual Reset Option and Pressure Switch (Do Not Use Options AH or AY)
- EG Alarm, Audible/Visible, Relief Valve Discharge
- EH Alarm Output Contacts, Relief Valve Discharge (Requires option -EG)
- EJ Alarm, Audible/Visible, Flow Meter On
- EK Alarm Output Contacts, Flow Meter On (Requires option -EJ)
- KH Alarm Output Contacts, Common Alarm
- JR Visible Indicator, Jockey Pump Operating
- JT Audible and Visible jockey pump trouble indication
- MZ Ground Bus (Earthing Bar)
- P 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)
- PK Terminal Blocks, Extra Remote Start
- 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)

MISCELLANEOUS

- AZ Thermostat, Low Pump Room Temperature, Mounted and Wired
- BAT Test Circuit, AC Input 240V Single Phase
- GZ Rating, 50 Hz
- IECI Marking, CE with Internal Wet Parts (Requires NEMA Type 12 (IP54) Enclosure as minimum)
- PY Output Contacts, Motor Space Heater Circuit, Externally Powered
- S Tropicalization
- SEI Marking, Seismic Certified (in accordance with IBC)
- USBX Data Port, External USB
- ZPA Scheduled Service Message (when factory programmed or programmed by Firetrol representative during start-up)
- ZPM Data Port, Serial Modbus RTU Over 2-Wire or 4-Wire RS485
- ZPN Data Port, Serial Modbus RTU Over Ethernet TCP/IP

*Weekly Test Timer – Standard

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