



## Mark IIx6 Electric Fire Pump Controllers

## Product Description FTA3100M, 3110M, 3130M with FTA950 (Opt. -TSA) Variable Speed Starting with Power Transfer Switch



**Description** – Firetrol® Variable Speed Electric Fire Pump Controllers provide a variable frequency drive (VFD) in a PID process control loop to control the speed of a centrifugal pump for the purpose of limiting system pressure in a fire sprinkler system. These controllers are available in the following configurations:

FTA3100M – VFD with Across-the-Line Bypass

FTA3110M – VFD with Autotransformer Bypass

FTA3130M – VFD with Digital Soft Start Bypass

Power Transfer Switches are completely assembled with Firetrol Electric Fire Pump Controllers. The power transfer switches are built for use with generator set or 2nd utility use. The entire package of power transfer switch and controller is completely factory assembled, wired, tested and shipped as a complete unit for easy field connection to the power sources and the fire pump motor.

**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*. They are built to meet or exceed the requirements of the approving authorities as well as NEMA, the latest editions of NFPA 20, *Installation of Centrifugal Fire Pumps*, NFPA 70, *National Electrical Code* and are approved by Factory Mutual.

The power transfer switches are listed by Underwriters' Laboratories, Inc., in accordance with UL218, *Standard for Fire Pump Controllers*; UL1008, *Automatic Transfer Switches*; UL508, *Industrial Control Equipment*; 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:

- Voltage surge protector
- Main Disconnect Switch sized for connected motor horsepower and voltage
- Fire pump Circuit Breaker
- Single handle Isolating Disconnect Switch/Circuit Breaker mechanism
- Motor contactor
- 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
- Minimum Run Timer / Off Delay Timer
- Daylight Savings Time Option
- Weekly Test Timer
- Elapsed Time Meter
- 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
- 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, Volts, Frequency, Pressure and Alarm Messages
- 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 12 enclosure (IEC IP54)
- Suitable for use as Service Equipment
- Each standard controller comes with user configurable options for:
  - Interlock Alarm • Low Pressure Audible
  - Low Suction • Pump Run
  - User Defined Input • Weekly Test
- Drive Ready pilot light
- Bypass Active pilot light
- Normal / Bypass selector switch

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

- Visual indication of the following: Alternate Power Lock Rotor Current • Alternate Power Phase Reversal • Automatic Transfer Switch Trouble
- Audible and Visible indication of: Alternate Power Circuit Breaker OFF or Tripped • Alternate Power Isolating Switch Tripped/Open
- Transfer Switch test push-button
- Bypass for re-transfer and generator shutdown
- The following adjustable time delays are provided: Momentary Normal Power Outage Override • Emergency Power Available Delay • Transfer Trouble Delay • Retransfer to Normal • Generator Cooldown
- Remote Alarm Contacts For: Emergency Isolating Switch Off • Transfer Switch in Normal Position • Transfer Switch in Emergency Position

FOR MODEL # INFORMATION SEE  
PUBLICATION SD3100-61

FOR OPTIONS AND MODIFICATIONS SEE  
PUBLICATION OP3100-72

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