



## Product Description

FTA3100S, 3130S

MarkIII+ Electric Fire Pump Controllers

Variable Speed Starting



**Description** – Firetrol® Variable Speed Electric Fire Pump Controllers provide a variable frequency drive (VFD) 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:

FTA3100S – VFD with Across-the-Line Bypass

FTA3130S – VFD with Digital Soft Start Bypass

**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.

**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 Option
- Elapsed Time Meter
- 7" LCD color touch screen with Embedded microcomputer with software PLC Logic. Keypad type push-buttons for Start/Stop/Test
- The screen shall display:
  - Voltage and amperage using true RMS technology
  - Motor Frequency (Hz)
  - Pump Running
  - Starting Cause
  - Time and Date
  - Shutdown Method
  - Pump Room Temperature
  - Pressure gauge showing start/stop/current pressure reading

Visual Indication for:

- VFD Fault
- VFD Bypass
- Locked Rotor Current
- Failed to Start
- Under/Over Current
- Under/Over Voltage
- Phase Imbalance
- Transducer Fault
- Motor Trouble
- Pump Room Alarm
- Phase Reversal
- Power/Phase Loss
- Low Water Level
- Pump on Demand
- Low Pump Room Temp.
- Service Required

### Pressure and Event Recording

- Logs Pressure Data and Operational Events with time and date stamp.
- Data can be retrieved via USB port or via Wi-Fi using the M3Sync App.

### Wet Parts

- Controller supplied with 2 pressure transducers and a test solenoid rated for 500 psi working pressure. Part shall be externally mounted with have a protective cover. Pressure sensing line to be 1/2" FNPT.

FOR MODEL # INFORMATION SEE  
PUBLICATION SD3100S-10

FOR OPTIONS AND MODIFICATIONS SEE  
PUBLICATION OP3100S-10

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