

Limited Service Electric Fire Pump Controllers



Firetrol[®]


EMERSON[™]
Network Power

Description

Firetrol® Limited Service Controllers may be used for the automatic control of small electrically driven fire pumps and booster pumps where they are acceptable to the authority having jurisdiction. They are available in single phase (FTA740 Model) and 3 phase(FTA750 Model) configurations.

Approvals

Firetrol Limited Service Controllers are listed by Underwriters' Laboratories, Inc., in accordance with UL218, Standard for Fire Pump Controllers, and CSA, Standard for Industrial Control Equipment (cUL). 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.

Enclosures

The standard enclosures are NEMA Type 2 (IEC IP22), drip-proof for installation in areas protected from direct sunlight with an ambient temperature above 41°F (5°C). Optional enclosure types include:

- NEMA Type 3R - Raintight, weatherproof (IEC IP14)
 - NEMA Type 4 - Watertight, (Painted Steel) (IEC IP56)
 - NEMA Type 4X - Watertight, corrosion resistant (#304 stainless steel) (IEC IP56)
 - NEMA Type 12 - Industrial use, dust-tight, oiltight (IEC IP52)
- NEMA enclosures listed meet or exceed referenced IEC designations.

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

- Voltage surge protector
- Main Thermal-Magnetic circuit breaker for assigned horsepower and voltage
- 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**
 - **TRANSFER SWITCH NORMAL** (If unit ordered with Automatic Power Transfer Switch)
 - **TRANSFER SWITCH EMERGENCY** (If unit ordered with Automatic Power Transfer Switch)
 - **SYSTEM PRESSURE LOW**
 - **PUMP RUNNING**
 - **DELUGE OPEN**

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- **REMOTE START**
- **INTERLOCK ON**
- **FAIL TO START**
- **MOTOR OVERLOAD**
- **EMERGENCY ISO SWITCH OFF** (If unit ordered with Automatic Power Transfer Switch)
- **PHASE FAILURE (Model FTA750 Only)**
- **PHASE REVERSAL (Model FTA750 Only)**
- **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 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 2 (IEC IP22) enclosure
- Suitable for use as Service Equipment
- Each standard controller comes with user set options for:
 - Interlock Alarm
 - Low Pressure Audible
 - Low Suction
 - Pump Run
 - User Defined Input
 - Weekly Test

Controller Short Circuit Current Rating

Firetrol Limited Service Controllers are available with the following short circuit current ratings:

- Standard**
- 200-240V - 10,000 Amps, RMS Sym. (FTA740 Model Only)
 - 200-240V - 65,000 Amps, RMS Sym.
 - 380-480V - 25,000 Amps, RMS Sym.
 - 550-600V - 14,000 Amps, RMS Sym.
- Optional**
- 200-240V - 65,000 Amps, RMS Sym. (FTA740 Model Only)
 - 200-240V - 85,000 Amps, RMS Sym.
 - 380-480V - 65,000 Amps, RMS Sym.
 - 550-600V - 25,000 Amps, RMS Sym.

Power Transfer Switches

See Power Transfer Switches literature for information on compatible equipment for limited service controllers.

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