

MARKIII Limited Service Electric Fire Pump Controllers - Across The Line Starting With Power Transfer Switch



**Description**—Firetrol® FTA750 Limited Service Controllers are intended for use with small electric motor driven fire pumps where the capacity of the power source permits full voltage starting. Full voltage is applied to the motor as soon as the controller is actuated. The controller monitors, displays and records fire pump system information.

Limited Service Controllers may be used where they are acceptable to the authority having jurisdiction.

Power Transfer Switches are completely assembled with Firetrol Electric Fire Pump Controllers; full or reduced voltage types. 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, and CSA, Standard for Industrial Control Equipment. 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.

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
- Circuit Breaker (Inverse Time Non Adjustable rated between 150% and 250% of Motor Full Load Current
- Single Handle Circuit Breaker mechanism
- Single Handle 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
- Daylight Savings Time Option
- Elapsed Time Meter
- 7.0" LCD color touch screen (HMI technology) software upgradeable operator interface powered by an embedded microcomputer with software PLC logic.
- 500 PSI Pressure Transducer (calibrated for 300 PSI (20.7 Bar)) and Test Solenoid for fresh water applications, externally mounted with protective cover
- Audible Alarm Bell
- Pump Room Ambient Temperature Switch, Display and Alarms

- Pressure and Event Recording with Date Stamp to System Memory Accessible VIA The User Interface and Downloadable to a USB Flash Drive
- Modbus Communications with TCP/IP frame format and a shielded female RJ45 connector
- NEMA Type 2 (IEC IP22) enclosure with bottom entry gland plate and lifting lugs
- Suitable for use as Service Equipment
- The controller supplies visual indication of the following: 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 Temp. Lockout
- The controller displays visual indication for the following alarm conditions:
   Control Voltage Not Healthy Invalid Cut-In Lock Rotor Current Loss of Power Low Ambient Temp. Low Water Level Motor Trouble Phase Reversal Overcurrent Overvoltage Phase Loss L1 / L2 / L3 Phase Unbalanced Pressure Transducer Fault Detected Pump On Demand Pump Room Alarm Service Required Undercurrent Undervoltage Check Test Solenoid Weekly Test Cut-In Reached
- Audible and Visible Indication for Fail To Start.
- DPDT 8A, 250VAC remote alarm contacts are provided for: Power Available
   Phase Reversal Motor Run
  - Common Pump Room Alarm (Overvoltage / Undervoltage / Phase Unbal-

For Model # Information See Publication SD750-61
For Options and Modifications See Publication OP750-62

- ance / Low Pump Room Temp. / High Pump Room Temp)
- Common Motor Trouble (Overcurrent / Fail To Start / Undercurrent / Ground Fault)
- Field Adjustable Timers with Visual Countdown for Minimum Run (Off Delay), Sequential Start (On Delay) and Weekly Test
- Seismic Certification per IBC 2015, CBC 2016

(Consult Factory for Verification)

## **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

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