

**MARK<sup>III</sup> Medium Voltage Electric Fire Pump Controllers – Across The Line Starting**



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:

Voltage	Maximum Horsepower
2200-2300	1000
3000-3300	1500
4000-4160	2000
4800-5500	2500
6000	3500
6300-6900	4000
7200	4500

**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:
- Current Limiting Fuses designed to hold 600% of motor full load current for minimum 100 sec.
  - Locked Rotor Protection set at 600% of motor full load current designed to trip between 8 and 20 seconds
  - Vacuum Type Motor Contactor
  - Flange Mounted 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 back, top and bottom removable gland plates, lockable handle and controller lifting lugs
  - 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) • Low Discharge Pressure • Pump Room Temp. • Lockout

- The controller displays visual indication for the following alarm conditions: Control Voltage Not Healthy • Fail To Start • Invalid Cut-In • Locked Rotor • Loss of Power • Low Ambient Temp. • Low Water Level • Motor Trouble • Phase Reversal • Under/Over current • Under/Over voltage • Phase Loss L1 / L2 / L3 • Phase Unbalanced • Pressure Transducer Fault Detected • Pump Room Alarm • Service Required • 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 Unbalance / 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

For Model # Information see Publication SD2000-60

For Controller Options and Modifications, see publication OP2000-71

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