FTA1800 Autotransformer Starting Electric Fire Pump Controllers **Product Description**



Description—Firetrol® FTA1800 Autotransformer Starting Fire Pump Controllers use an autotransformer to supply reduced voltage when starting the motor. The control-ler is of the closed circuit type where the motor circuit remains closed during the transition from start to run resulting in minimum line disturbance.

The controller monitors, displays and records fire pump system information.

The autotransformer has three taps for selection of starting current and torque; 50% tap for 150% current and 25% torque, 65% tap (factory setting) for 250% current and 42% torque and the 80% tap for 384% current and

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:

- 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 con-
- Built-in Start and Stop push-buttons to bypass automatic start circuits
- Minimum Run Timer / Off Delay Timer

- **Daylight Savings Time Option**
- Wéekly 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
 - REMOTE START
 - INTERLOCK ON
 - FAIL TO START
 - MOTOR OVERLOAD
 - EMERGENCY ISO SWITCH OFF (If unit ordered with Automatic Power Transfer Switch)
 - 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 Mes-
- 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





| SPECIAL ENCLOSURES | -AY | Contacts for remote indication, low suction pressure (Re- |
|---|---|---|
| -T NEMA Type 3R (IEC IP22), Painted Steel -E NEMA Type 4 (IEC IP66), Painted Steel | -AZ | quires option -AH) Low pump room temperature switch, mounted and wired |
| -F NEMA Type 4X (IEC IP66), #304 Stainless Steel, | -BW | Extra contacts for remote indication. |
| Untinished * * | | nhase tailure/nhase reversal |
| -FXP NEMA Type 4X (IEC IP66), #304 Stainless Steel, Painted Finish | -BY -COM | Contacts for remote indication, pump overload |
| -FD NEMA Type 4X (IEC IP66), #316 Stainless Steel, | COIVI | Contacts for remote indication, pump overload Low Suction Pressure Alarm, (Includes selectable auto/ manual reset, audible, visible and remote alarms, initiating pressure switch NOT included) |
| Unfinished** | CTC. | pressure switch NOT included) |
| -FDB NEMA Type 4X (IEC IP66), 12 Gauge, Seam Welded, #316 Stainless Steel, Polished and | -CTS | Built-in Low Suction Pressure Álarm Panel (Includes selectable auto/manual reset, audible, vis- |
| Brushed Finish | | ible and remote alarms and wired and mounted pressure |
| -FDP NEMA Type 4X (IEC IP66), #316 Stainless Steel | F.C | switch) |
| Painted Finish -G NEMA Type 12 (IEC IP54), Painted Steel | -EG -EH | Audible and Visible relief valve discharge alarm Contacts for remote indication, relief valve discharge (Re- |
| ** Unfinished (Not painted, polished or brushed). | L., | quires option -EG) |
| | -EJ -EK | Audible and Visible flow meter on alarm |
| CIRCUIT BREAKER OPTION -N Intermediate withstand rating | -EK | Contacts for remote indication, flow meter on (Requires option -EJ) |
| 150.000 Amps RMS Svm. | -KH | Contacts for remote indication, common output for any |
| -P High withstand rating 200,000 Amps RMS Sym | ID | alarm |
| Note: Intermediate and High withstand ratings may not be | -JR -JT -P | Visible jockey pump running indication Audible and Visible jockey pump trouble indication |
| available for all horsepowers and voltages. Consult factory for avail- | -þ | Built-in alarm system (Includes visible supervisory voltage normal indication and audible pump operating, phase |
| ability. | | normal indication and audible pump operating, phase |
| ANTI-CONDENSATION SPACE HEATERS | -PE | failure and phase reversal indication) Contacts for remote indication, low system pressure (pump |
| -H 120 Volt Space Heater | | on demand) |
| -J 120 Volt Space Heater With Thermostat | -PT | Built-in alarm system, 220 VAC supervisory power (Includes visible supervisory voltage normal indication and audible |
| | | |
| -K 120 Volt Space Heater With Humidistat -L 240 Volt Space Heater | | pump operating, phase failure and phase reversal |
| -L 240 Volt Space Heater -M 240 Volt Space Heater With Thermostat | | pump operating, phase failure and phase reversal indication) |
| -L 240 Volt Space Heater | MISCFII | pump operating, phase failure and phase reversal indication) |
| -L 240 Volt Space Heater -M 240 Volt Space Heater With Thermostat -N 240 Volt Space Heater With Humidistat PRESSURE TRANSDUCERS | MISCELI -ED | pump operating, phase failure and phase reversal indication) L ANEOUS Load shed circuits (Selectable power source and adjustable |
| -L 240 Volt Space Heater -M 240 Volt Space Heater With Thermostat -N 240 Volt Space Heater With Humidistat PRESSURE TRANSDUCERS -B 0-600 psi (0-42.25 bar) Pressure Transducer for | -ED | pump operating, phase failure and phase reversal indication) LANEOUS Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) |
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