Firetrol

Mark IIxg 1Ø Limited Service Electric Fire Pump Controllers

Description—Firetrol® FTA740 Single Phase 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.

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*.

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
  - REMOTE START
  - INTERLOCK ON
  - FAIL TO START
  - MOTOR OVERLOAD
  - EMERGENCY ISO SWITCH OFF (If unit ordered with Automatic Power Transfer Switch)
  - 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 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 enclosure (IEC IP22)
- 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
-E   Enclosure, NEMA Type 4 (IP66), Painted Steel
-F   Enclosure, NEMA Type 4X (IP66), #304 Stainless Steel, Brushed Finish
-FD   Enclosure, NEMA Type 4X (IP66), #316 Stainless Steel, Brushed Finish
-FDB Enclosure, NEMA Type 4X (IP66), #316 Stainless Steel, 12 Gauge, Seam Welded, Brushed Finish
-FDP Enclosure, NEMA Type 4X, (IP66), #316 Stainless Steel, Painted Finish
-FXP Enclosure, NEMA Type 4X (IP66), #304 Stainless Steel, Painted Finish
-G   Enclosure, NEMA Type 12 (IP54), Painted Steel
-T   Enclosure, NEMA Type 3R (IP24), Painted Steel

CIRCUIT BREAKER OPTION
-E   Intermediate withstand rating
      65,000 Amperes RMS Sym. at 200-240V

ANTI-CONDENSATION SPACE HEATERS
-H   Space Heater, 120V Externally Powered with Circuit Breaker
-J   Space Heater, 120V Externally Powered with Circuit Breaker and Thermostat
-K   Space Heater, 120V Externally Powered with Circuit Breaker and Humidistat
-L   Space Heater, 240V Externally Powered with Circuit Breaker
-M   Space Heater, 240V Externally Powered with Circuit Breaker and Thermostat
-N   Space Heater, 240V Externally Powered with Circuit Breaker and Humidistat

PRESSURE TRANSDUCERS
-B   Wetted Parts Including Pressure Sensor, 600 PSI (42 Bar), Fresh Water
-C   Wetted Parts Including Pressure Sensor, 300 PSI (21 Bar), Sea Water
-D   Wetted Parts Including Pressure Sensor, 600 PSI (42 Bar), Sea Water

COMBINED AUTOMATIC POWER TRANSFER SWITCHES
FTA976 - For use with generator set/second utility emergency source

ALARMS
-AC   Alarm Output Contacts Extra, Pump Operating (1 Set)
-AF   Alarm, Audible/Visible, Low Pump Room Temperature
-AG   Alarm, Audible/Visible, Reservoir Low
-AH   Alarm, Audible/Visible, Low Suction Pressure
-AM Alarm Output Contacts, Fail To Start
-AV   Alarm Output Contacts, Low Pump Room Temperature (Requires option -AF)
-AW Alarm Output Contacts, Reservoir Low (Requires option -AG)
-AY   Alarm Output Contacts, Low Suction Pressure (Requires option -AH)
-AZ   Thermostat, Low Pump Room Temperature, Mounted and Wired
-BY   Alarm Output Contacts, Pump Overload
-COM Alarm, Audible/Visible/Output Contacts, Low Suction Pressure with Manual Reset Option. Pressure Switch Not Included
-CTS Alarm, Audible/Visible/Output Contacts, Low Suction Pressure Shutdown with Manual Reset Option and Pressure Switch
-EG   Alarm, Audible/Visible, Relief Valve Discharge
-EH   Alarm Output Contacts, Relief Valve Discharge (Requires Option -AG)
-EJ   Alarm, Audible/Visible, Flow Meter On
-EK   Alarm Output Contacts, Flow Meter On (Requires option -EJ)
-JR   Visible Indicator, Jockey Pump Operating (Requires Jockey Pump To Be Ordered With Option (-AC)
-JT   Alarm, Visible, Jockey Pump Trouble (Requires Jockey Pump To Be Ordered With Option (-KH)
-KH   Alarm Output Contacts, Common Alarm
-PE   Alarm Output Contacts, Low System Pressure (Pump On Demand)

MISCELLANEOUS
-ED   Output Contacts, Load Shed
-EL   Series Pumping Operation, High Zone Controller
-EM Series Pumping Operation, Mid Zone Controller
-EN   Series Pumping Operation, Low Zone Controller
-IEC Marking, CE with External Wet Parts (Requires NEMA Type 12 (IP54) Enclosure as a minimum)
-IECI Marking, CE with Internal Wet Parts (Requires NEMA Type 12 (IP54) Enclosure as a minimum)
-OSP Marking, OSHPD Seismic Certification (State of California) (Requires Option -SEI)
-PY   Output Contacts, Motor Space Heater Circuit
-S   Tropicalization
-SEI   Marking, Seismic Certified
-USBX Data Port, External USB
-ZPA Scheduled Service Message
-ZPM Data Port, Serial Modbus RTU Over 2-Wire or 4-Wire RS485
-ZPN Data Port, Serial Modbus RTU Over Ethernet TCP/IP

      Export packaging (Wooden crating to conform to IPPC Standards)

*Weekly Test Timer - Standard

Firetrol, Inc.