

# FTA950 Power Transfer Switch for Electric Fire Pump Controllers

## Product Description



**Description**—Firetrol® Power Transfer Switches are available 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 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 transfer switch:

- Emergency power source disconnect switch sized for connected motor horsepower and voltage

- Fire pump circuit breaker
- Mark II monitors for overcurrent tripping (non-thermal) of circuit breaker and alarm indicator for phase failure/phase reversal
- 3-pole, double throw transfer switch mechanism, electrically operated, mechanically held
- ASCO® Group 5 Control module providing for the following:
  - Door mounted operator interface panel with 4 line LCD display
  - In-phase monitor
  - Programmable engine exerciser
  - Transfer switch data logging
  - Differential voltage sensing on all phases of the normal power source
  - Voltage sensing of the emergency power source
  - Frequency sensing of the emergency power source
  - Transfer time delay to compensate for momentary power outages of the normal source
  - Retransfer from emergency to normal source is automatically delayed unless the emergency source fails
  - Cool-down timer for unloaded running of the generator set after retransfer to the normal power source
  - Instantaneous retransfer to normal if the emergency source fails and the normal source is available
  - 3 second transfer restart delay to reduce current surges when transferring to or from the emergency source
  - NO and NC engine control contacts to start the generator set when the normal power source fails
- Transfer Switch Normal LED
- Transfer Switch Emergency LED
- Emergency Isolating Switch Open LED
- Test Selector Switch
- Transfer By-pass Switch
- Silence Alarm Push-button
- Emergency Isolating Switch Open and Transfer Switch in Emergency Audible Alarms
- Output contacts (NO and NC) for Generator Start, Emergency Isolating Switch Open and Transfer Switch position indicators
- NEMA Type 2 enclosure (IEC IP22)

**Options**—The following are available as options to FTA950 Power Transfer Switches: (Note: The short circuit current rating for the normal power source and the emergency power source side of the power transfer switch will be the same as the rating of the fire pump controller assembled with the power transfer switch.)

*Circuit Breaker Option*

- M Standard withstand rating  
200-600V - 100,000 Amps, RMS Sym.
- N Intermediate withstand rating  
200-600V - 150,000 Amps, RMS Sym.
- P High withstand rating  
200-600V - 200,000 Amps, RMS Sym.
- Q Standard intermediate withstand rating  
200-480V - 65,000 Amps RMS Sym.
- R Standard low withstand rating  
550-600V - 42,000 Amps RMS Sym.

**Modifications**—The following are available as modifications to all transfer switches:

*Special Enclosures*

- T NEMA Type 3R (IEC IP22)
- E NEMA Type 4 (painted steel) (IEC IP66)
- F NEMA Type 4X (#304 stainless steel) (IEC IP66)
- G NEMA Type 12 (IEC IP54)  
Special finish paint—consult factory  
Special finish color—consult factory

*Anti-condensation Space Heaters*

- H 120 Volt space heater
- J 120 Volt space heater with thermostat
- K 120 Volt space heater with humidistat
- L 240 Volt space heater
- M 240 Volt space heater with thermostat
- N 240 Volt space heater with humidistat

*Alarms*

- EC Extra contacts for remote indication, transfer switch position
- BX Contacts for remote indication, second utility source phase failure/phase reversal (FTA950 only)

*Miscellaneous*

- ED Load shed circuits
- TN As above, with serial communications port
- S Tropicalization

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