FTA902, FTA903 Separately Mounted Power Transfer Switches Product Description

Description—Firetrol® Separately Mounted Power Transfer Switches are designed for use when pump room size constraints will not allow an integral controller/transfer switch configuration, or where a transfer switch is now being required on an existing installation. The power transfer switches are built in two configurations for use when the alternate (emergency) source is a generator set:

FTA902 — For use when the normal power source is a utility and the emergency power source is a generator set. The disconnecting means and overcurrent protective devices required for the normal side of the transfer switch are NOT supplied.

FTA903 — For use when the normal power source is a utility and the emergency power source is a generator set. The disconnecting means and overcurrent protective devices required for the normal side of the transfer switch are supplied as part of the transfer switch package.

The power transfer switch is completely factory assembled, wired, tested and shipped as a complete unit for field connection to the power sources and the fire pump controller.

Approvals—Firetrol® Separately Mounted Fire Pump Automatic Transfer Switches are listed by Underwriters' Laboratories, Inc., for transfer switch service and also meet the requirements of NFPA 20, *Standard for the Installation of Stationary Pumps for Fire Protection* and NFPA 70, *National Electrical Code*. The transfer switches are listed by Underwriters Laboratories, Inc. under UL-1008, *Automatic Transfer Switches*, as well as UL-508, *Industrial Control Equipment*.

Standard Features—The following are included as standard with each transfer switch:

- Emergency power source disconnect switch sized for connected motor horsepower and voltage
- (FTA903 only) Normal Source Isolating Switch and Circuit Breaker
- 3-pole, double throw transfer switch mechanism, electrically operated, mechanically held
- Control module providing for the following:
  -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 in Normal Pilot Light
- Transfer Switch in Emergency Pilot Light
- Emergency Isolating Switch Open Pilot Light
- Normal Source Accepted Pilot Light
- Emergency Source Accepted Pilot Light
- Retransfer Delay Bypass / Transfer Test Selector 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
- Standard Withstand Rating, emergency side only
  FTA902 (Generator set equipped with molded case circuit breaker)
  100-150A, 22,000A RMS Sym., 200-480V;
  10,000A RMS Sym., 550-600V
  260-400A, 35,000A RMS Sym ., 200-480 V;
  10,000A RMS Sym., 550-600 V
  600-800A, 50,000A RMS Sym., 200-480V;
  10,000A RMS Sym., 550-600V
  FTA903 - 200-600V - 100,000 Amps, RMS Sym.
  (See *Options* for higher ratings)
- NEMA Type 2 enclosure (IEC IP22)

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Options—
The following are available as options to **FTA903** Separately Mounted 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

-N Intermediate withstand rating
200-600V - 150,000 Amps, RMS Sym.

-P High withstand rating
200-600V - 200,000 Amps, RMS Sym.

Modifications—The following are available as modifications to FTA902 or FTA903 Separately Mounted Power Transfer Switches:

Special Enclosures

-T NEMA Type 3R (IEC IP22), Painted Steel
-E NEMA Type 4 (IEC IP66), Painted Steel
-F NEMA Type 4X (IEC IP66), #304 Stainless Steel, Natural Finish (Not painted, polished or brushed)
-FXP NEMA Type 4X (IEC IP66), #304 Stainless Steel, Painted Finish
-FD NEMA Type 4X (IEC IP66), #316 Stainless Steel, Natural Finish (Not painted, polished or brushed)
-FDB NEMA Type 4X (IEC IP66), #316 Stainless Steel, 12 Gauge, Seam Welded, Polished and Brushed Finish
-FDP NEMA Type 4X (IEC IP66), #316 Stainless Steel, Painted Finish
-G NEMA Type 12 (IEC IP54)

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

Miscellaneous

-TN 5150 Ethernet Connectivity Module (ASCO Option 72E)
-S Tropicalization

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