

Jockey_{XG} Pump Controllers

FTA550E Series & FTA556E Series (Wye-Delta Open Transition)



Firetrol[®]


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Network Power

Firetrol® FTA550E Series JockeyXG Pump Controllers are intended for use with fire pump systems. They are used for pressure maintenance in fire pump installations to prevent unnecessary operation of the main fire pump. FTA556E Series are basically the same as the FTA550E Series except they utilize wye-delta open transition starting instead of across the line starting.

Approvals— Firetrol Jockey Pump Controllers are listed by Underwriters Laboratories, Inc., in accordance with UL508A, Standard for Industrial Controls, and CSA, Standard for Industrial Control Equipment (cUL). They are built to meet or exceed the requirements of the approving authorities as well as NEMA and the latest edition of NFPA 70, National Electrical Code.

Enclosures— The standard enclosures are NEMA Type 2 (IEC IP22), drip-proof, for installation in areas protected from direct sunlight with an ambient temperature above 41°F (5° C).

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

- NEMA Type 2 (IEC IP22) Painted Steel Enclosure
- Circuit Breaker
- Horsepower Rated Motor Starter(s)
- Suitable for use as service equipment
- HAND-OFF-AUTO selector switch
- Minimum run timer
- On-Delay timer
- Pump restart timer
- Run/Start transition timer (FTA556E only)
- Control circuit transformer with 24VAC secondary
- 0-300 psi (0-20.7 bar) stainless steel solid state pressure transducer
- Overpressure indication
- Low Pressure indication
- Failed to start indication
- Main switch not in “Auto” alarm

- Pressure recording
- Event log (3000 events stored in controller memory)
- Data log (including cycle counter)
- Door mounted display/user interface featuring a 128 x 64 pixel backlit LCD Graphical Display, Membrane Type User Controller Push-buttons and LED indication for:
 - Power ON
 - Pump Running
 - Alarm
- 2 lines of user selectable display information

FTA550 Series Jockey Pump Controllers

The FTA550E Jockey Pump Controller utilizes across the line, full voltage starting. Full voltage is applied to the motor as soon as the controller is actuated, and the motor supplies its rated torque. When using full voltage starting, the power source must have sufficient KVA capacity to handle motor locked rotor current and prevent the line voltage from dropping below acceptable levels.

FTA556E Jockey Pump Controllers utilize wye-delta open transition starting. Upon a call to start the starting contactor is engaged, after 2 seconds, the run contactor is engaged, bringing the motor to full speed.

When the controller is actuated, either by a drop in system pressure (in the “Auto” mode), or by placing the HAND-OFF-AUTO switch in the “Hand” position, the pump will start. In the “Auto” mode, the pump will continue to run until the pressure returns to a normal level and the minimum run timer has expired, whichever occurs last. In the “Hand” mode, the pump will continue to run until the HAND-OFF-AUTO selector switch is moved from the “Hand” position.

The stainless steel pressure transducer is mounted inside the enclosure and is piped to a fitting on the bottom of the enclosure.

Options and Modifications—Refer to the Product Description sheet for a complete listing of Options and Modifications.

Emerson Network Power - Global Headquarters

1050 Dearborn Drive
Columbus, OH 43085
Tel +1 614 888 0246

EmersonNetworkPower.com

ASCO Power Technologies - Firetrol Brand Products

111 Corning Road, Suite 120
Cary, NC 27518
Tel +1 919 460 5200 • Fax +1 919 460 5250

Firetrol.com

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