

Firetrol Limited Option Jockey Pump Controller

FTA570F – Full Voltage Starting

Specifications

1.0 Main Fire Pump Controller

The auxiliary jockey pump controller, if required and specified on the plans and specifications, shall be factory assembled, wired, and tested and specifically designed for this type of service. This controller shall be of the same manufacturer as the main fire pump controller.

1.1 Standards, Listings & Approvals

The controller shall conform to all the requirements of the latest editions of: NFPA 70, *National Electrical Code*.

The controller shall be listed by:

Underwriters Laboratories, Inc., in accordance with UL508A, *Standard for Industrial Controls*
 Canadian Standards Association CSA-C22.2, *Standard for Industrial Control Equipment* (cUL)

1.2 Enclosure

The controller components shall be housed in a NEMA Type 2 (IEC IP22), painted wall mountable enclosure.

1.3 Withstand Ratings (Short Circuit Current Ratings)

The jockey pump controller shall have standard short circuit current ratings as follows:

VOLTAGE 3-PHASE (50/60 HERTZ) RATING		MAX HP	SHORT CIRCUIT CURRENT
-H	200 - 208V	7.5	1/4-3 HP - 65kA 4-7 1/2 HP - 42kA
-A	220 - 240V	10	1/4-3 HP - 65kA 4-10 HP - 42kA
-F	380 - 415V - WYE	15	1/4-5 1/2 HP - 65kA 7 1/2-15 HP - 42kA
-B	440 - 480V - WYE	20	1/4-7 1/2 HP - 65kA 10-20 HP - 42kA
-C	550 - 600V - WYE	25	1/4-10HP - 10kA 15-25 HP - 5kA
VOLTAGE 1-PHASE (50/60 HERTZ) RATING		MAX HP	SHORT CIRCUIT CURRENT
-D	110 - 120V	2	1/4 -1/2 HP- 65kA 3/4-2 HP - 42kA
-T	200 -208V	5	1/4-2 HP - 65kA 3-5 HP - 42kA
-E	220 - 240V	5	1/4-2 HP - 65kA 3-5 HP - 42kA

1.4 Construction

The jockey pump controller shall be full voltage starting, rated for wye-connected power systems above 240V. The controller shall incorporate a horsepower rated manual circuit protector and starting contactor, control circuit transformer with 24VAC secondary, main disconnect switch, and a 0-600 psi (0-42 bar) solid state pressure transducer.

1.5 Operator Interface

The jockey pump controller shall feature an operator interface with user keypad. The interface shall feature a digital display. The controller shall feature a Hand-Off-Auto Selector Switch and provide indication of motor run (manual start and automatic start). User settings such as start/stop pressure settings, timer settings and units of measure shall be programmable from the user interface without opening the enclosure door.

The interface shall provide visual indication of the Start Pressure setting, Stop Pressure setting, current System Pressure and if a Motor Overload occurred.

1.6 Solid State Pressure Transducer

The controller shall be supplied with a solid state pressure transducer with a range of 0-600 psi (0-42 bar) ± 1 psi. The solid state pressure switch shall be used for both display of the system pressure and control of the fire pump controller. Systems using analog pressure devices or mercury switches for operational control will not be accepted.

The START, STOP and SYSTEM PRESSURE shall be visually indicated and adjustable through the user interface. The pressure transducer shall be mounted inside the controller to prevent accidental damage. The pressure transducer shall be directly pipe mounted to a bulkhead pipe coupling without any other supporting members. Field connections shall be made externally at the controller coupling to prevent distortion of the pressure switch element and mechanism.

1.7 Controller Operation

A digitally set On Delay (Sequential Start) timer shall be provided as standard. The controller shall include a Minimum Run Timer to allow the motor to run for a set period of timer after starting. The timer shall be programmable through the user interface.

The disconnect switch shall be mechanically interlocked so that the enclosure door cannot be opened with the handle in the ON position except by a hidden tool operated defeater mechanism. The disconnect switch shall be capable of being padlocked in the OFF position for installation and maintenance safety.

1.8 Manufacturer

The controller shall be a Firetrol brand.

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