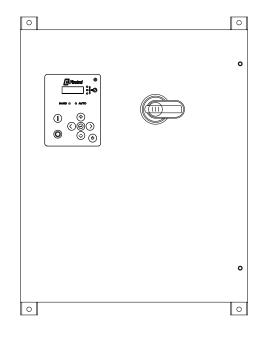


FTA560E

Project Information



(DRAWINGS INCLUDED IN THIS PACKAGE ARE FOR STANDARD CONTROLLERS. ACTUAL "AS BUILT" DRAWINGS MAY DIFFER FROM THOSE SEEN HERE).

Firetrol, Inc.

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Publication SBP560E Rev. C

Firetrol Jockey Pump Controller

FTA560E - Full Voltage Starting

Specifications

1.0 Jockey 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 steel, wall mounted enclosure (UL50E Construction).

1.3 Withstand Ratings (Short Circuit Current Ratings w/Circuit Breaker)

The jockey shall have standard short circuit current ratings of: 65kA @ 480 Volts Max. (3-Phase) 14kA @ 600 Volts (3-Phase) 5kA @ 240 Volts Max. (1-Phase)

1.4 Construction

The jockey pump controller shall be full voltage starting. The controller shall incorporate a circuit breaker and horsepower rated motor starter, control circuit transformer with 24VAC secondary and 200-600V multi-tap primary, 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 4 digit digital display. LED indication of pressure above stop setting (Green), pressure between stop and start settings (Yellow), and pressure below the start setting (Red). LED indication of motor run (manual start and automatic start). Start/Stop and Off/Automatic push-buttons. 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.

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 jockey 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 digitally displayed 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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Product Description



FTA560E

Jockey Pump Controllers



Description—Firetrol® FTA560E Jockey 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.

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*. They are built to meet or exceed the requirements of the approving authorities as well as NEMA and the latest edition NFPA 70, *National Electrical Code*.

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
- Suitable for use as service equipment
- OFF-AUTO push-buttons
- Minimum run timer
- On-Delay timer
- Control circuit transformer with 24VAC secondary
- 0-600 psi (0-42 bar) solid state pressure transducer
- Visual Indication, Controller in AUTO

- Door mounted pressure display/user interface.
- LED indication for pressure above stop setting (green), pressure between start and stop setting (yellow), and pressure below start setting (red).
- Start and Stop push-buttons
- Rotary style door mounted disconnect handle
 with door interlock

NOTE: FTA560E Jockey Pump Controllers are available as standard in the voltage/ horsepower combinations shown below. For other combinations and options, please consult your Firetrol representative or the factory.							
VOLTAGE 3-PHASE MAX HP Short Circuit (50/60 Hertz) Current Rating							
-A -F -B	200 - 208V 220 - 240V 380 - 415V 440 - 480V 550 - 600V	25 30 40 50 50	65kA 65kA 65kA 65kA 14kA				
(50/	VOLTAGE 1-PHASE* MAX HP Short Circuit (50/60 Hertz) Current Rating						
-T	110-120V 200-208V 220-240V	5 15 15	5kA 5kA 5kA				
* Single phase units supplied standard with fusible disconnect switch and fuses							

NOTE: Firetrol Brand Jockey Pump controllers DO NOT CONTAIN MERCURY filled pressure switches.

For Model # Information and Options & Modifications see Publication SD560E-01

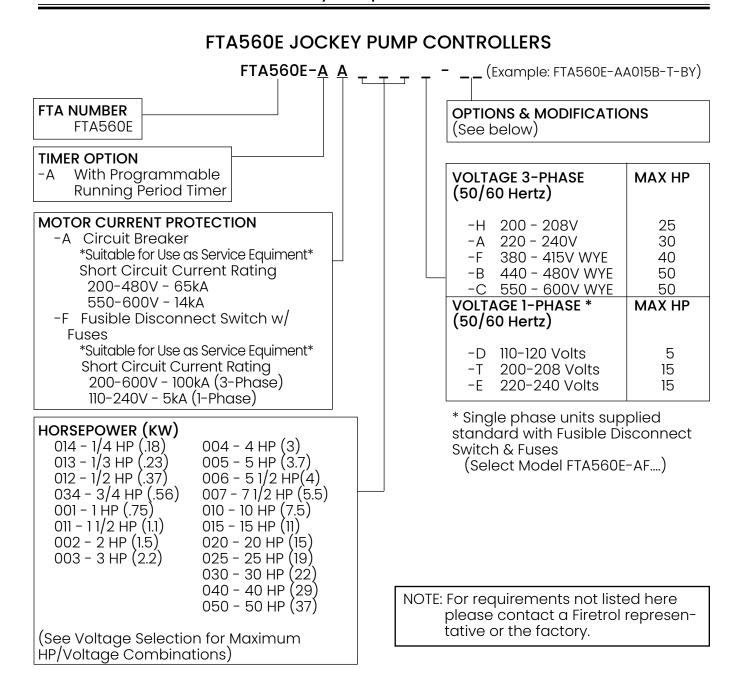
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FTA560E

Jockey Pump Controllers



Options and Modifications

Option	PRESSURE TRANSDUCERS Description					
	Wetted Parts Including Pressure Sensor, 600 PSI (42 bar), Fresh Water					
-D	Wetted Parts Including Pressure Sensor, 600 PSI (42 bar), Sea Water					

SPECIAL ENCLOSURES

Description

	Enclosure, NEMA Type 2 (IEC IP22), Painted Steel (Standard)
-E	Enclosure, NEMA Type 4 (IEC IP65), Painted Steel
-F	Enclosure, NEMA Type 4X (IEC IP66), #304 Stainless Steel, Brushed Finish
-FD	Enclosure, NEMA Type 4X (IEC IP66), #316 Stainless Steel, Brushed Finish
-FDB	Enclosure, NEMA Type 4X (IEC IP66), #316 Stainless Steel, Seam Welded, Brushed Finish
-FDP	Enclosure, NEMA Type 4X (IEC IP66), #316 Stainless Steel, Painted Finish
-FXP	Enclosure, NEMA Type 4X (IEC IP66), #304 Stainless Steel, Painted Finish
-G	Enclosure, NEMA Type 12 (IEC IP54), Painted Steel
-T	Enclosure, NEMA Type 3R (IEC IP24), Painted Steel

Option

Option

ANII-CONDENSATION SPACE HEATERS (power source by others) Description

None	
-H	Space Heater, 120V Externally Powered with Circuit Breaker
- J	Space Heater, 120V Externally Powered with Circuit Breaker & Thermostat
-K	Space Heater, 120V Externally Powered with Circuit Breaker & Humidistat
-L	Space Heater, 240V Externally Powered with Circuit Breaker
-M	Space Heater, 240V Externally Powered with Circuit Breaker & Thermostat
-N	Space Heater, 240V Externally Powered with Circuit Breaker & Humidistat

HIGHER SHORT CIRCUIT CURRENT RATING Description

Fusible Disconnect Switch with Fuses 200-600/3-100kA | 110-240/1-5kA AF

ALARMS

Option

Option

Description

-AC	Alarm Output Contacts, Pump Operating (1 Set)
-AG	Alarm, Audible/Visible, Reservoir Low
-AM	Alarm Output Contacts, Fail To Start
-AW	Alarm Output Contacts, Reservoir Low (Requires Option -AG)
-BW1	Alarm Output Contacts/Visual Indication, Phase Failure/Phase Reversal
-BY	Alarm Output Contacts, Pump Overload
-EF1	Alarm Output Contacts, Controller Not In Auto (1 set)
-HV	Alarm, Audible
-KH	Alarm Output Contacts, Common Alarm
-PE	Alarm Output Contacts, Low System Pressure

MISCELLANEOUS Description

-AST	Input Terminals, Automatic Start
-NZ	Input Terminals, Shutdown Interlock
-S	Tropicalization
-ZPJ1	Serial Modbus TCP/IP Ethernet, Includes MarkIII+
-ZPJ2	Serial Modbus RTU RS485, Includes MarkIII+

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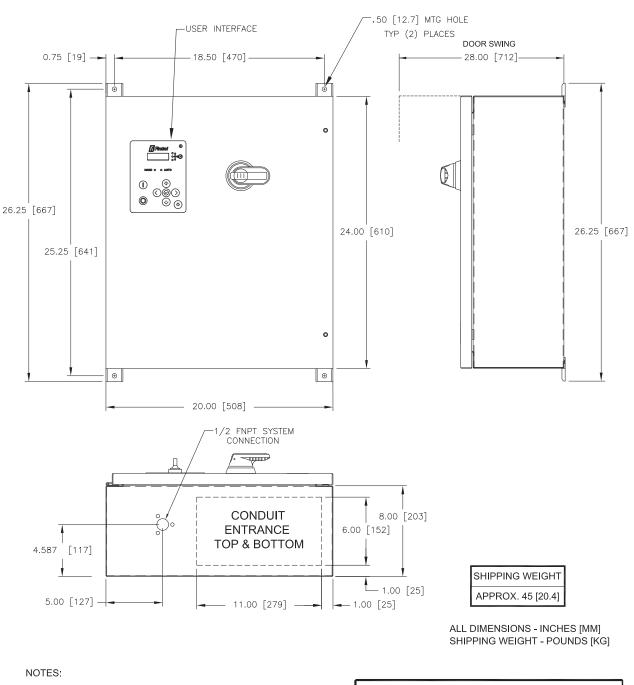
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Dimensions and Shipping Weight



FTA560E



FOR ADDITIONAL HORSEPOWER RATINGS CONSULT FACTORY. DIMENSIONS SHOWN ON THIS DRAWING ARE APPLICABLE FOR NEMA TYPES 2 - 3R - 4 - 4X - 12 USE WATERTIGHT CONDUIT AND CONNECTOR ONLY.

MAXIMUM MOTOR HORSEPOWER							
200-208V	220-240V	380-415V	440-480V	550 - 600V			
25	30	40	50	50			

THIRD ANGLE PROJECTION	SIZE A	BY	DATE		REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
	DRAWN BY	TEF	10/26/21		DIMENSIONS AND SHIPPING WEIGHT	FTA560E	DD560-05				
					FTA560E JOCKEY PUMP CONTROLLER		DD000 00				
	F I NAL APPROVAL	TEF	10/26/21				DWG REV -	ECN -		SH	IEET 1 OF 1
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Wiring Schematic



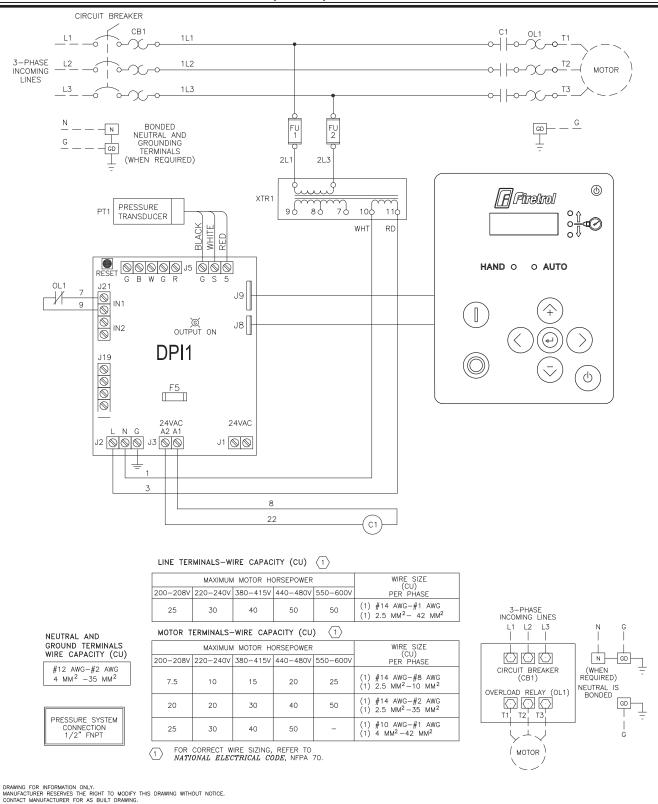
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DATE

SHEET 1 OF 1

onsent of Firetrol Inc

Jockey Pump Controllers



ECN NO BY APP REV REVISION DESCRIPTION SIZE A DATE ΒY RAWING NUMBER ∋⊕ WIRING SCHEMATIC Firetrol, Inc. FTA560E DRAWN BY 10/25/21 TEF WS560-05 THIRD ANGLE PROJECTION FTA560E JOCKEY PUMP CONTROLLER © Firetrol, Inc. Not for construction. Subject to change without notice. FINAL APPROVAL 10/25/21 DWG ECN NO TEF In are the sole procenty of Frietrol. Inc. Cooles are communicated to the reduction in strict confidence and may not be retransmitted, published, reproduced, cooled or used in any manor, including as the basis for the manufacture or sale of any products, without the express prior write All rights rese rved. The drawlon and the denicter