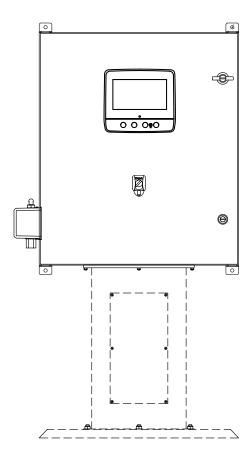


MARKIII+ Diesel Engine Fire Pump Controller



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

Firetrol, Inc.

3412 Apex Peakway Apex, North Carolina 27502 P 919 460 5200 F 919 460 5250 www.firetrol.com

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	BY	DD/MM/YY
DRAWN BY	ACD	28/02/23
FINAL APPROVAL	FC	28/02/23

DIESEL ENGINE FIRE PUMP CONTROLLER 12VDC OR 24VDC NEGATIVE GROUND

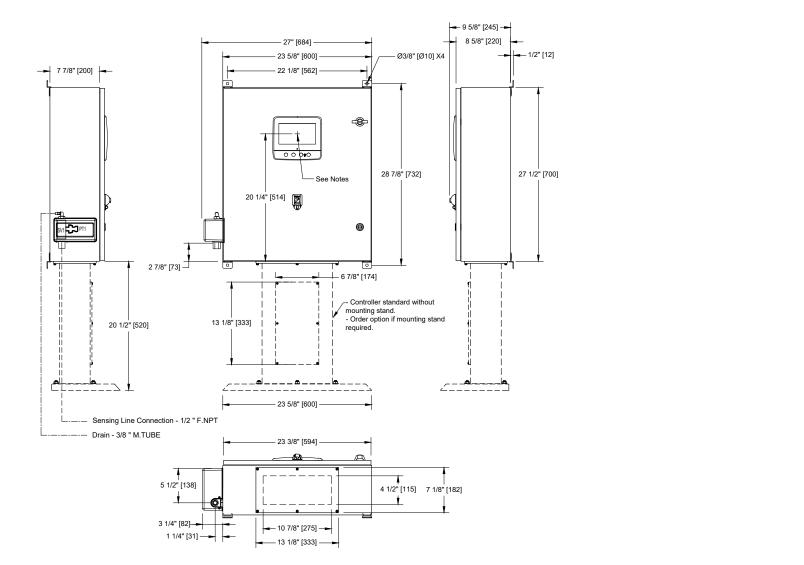
MODEL: FTA1100

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70





DRAWING NUMBER DD1100-800/E DWG REV. 0 SHEET 1 OF 1



- Standard: NEMA 2
- Standard paint : textured red RAL 3002.
- All dimensions are in inches [millimeters]
- Center of ViZiTouch screen: 20-1/4" [514] from bottom (no feet).
- Bottom conduit entrance through removable gland plate recommended.
- Use watertight conduit and connector only.
 Protect equipment against drilling chips.
 Door swing equal to door width.



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DIESEL ENGINE FIRE PUMP CONTROLLER 12VDC OR 24VDC NEGATIVE GROUND

MODEL: FTA1100

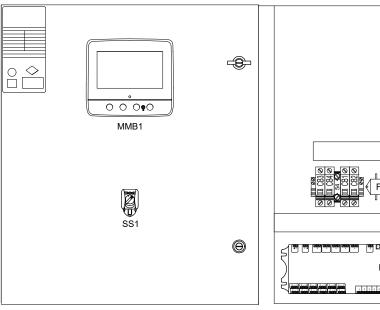
BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

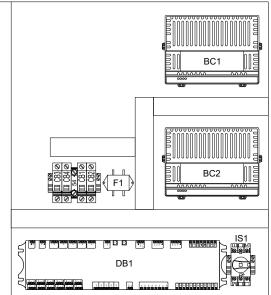




DRAWING NUMBER
LY1100-800/E
N DWG REV: 0
SHEET 1 OF 1

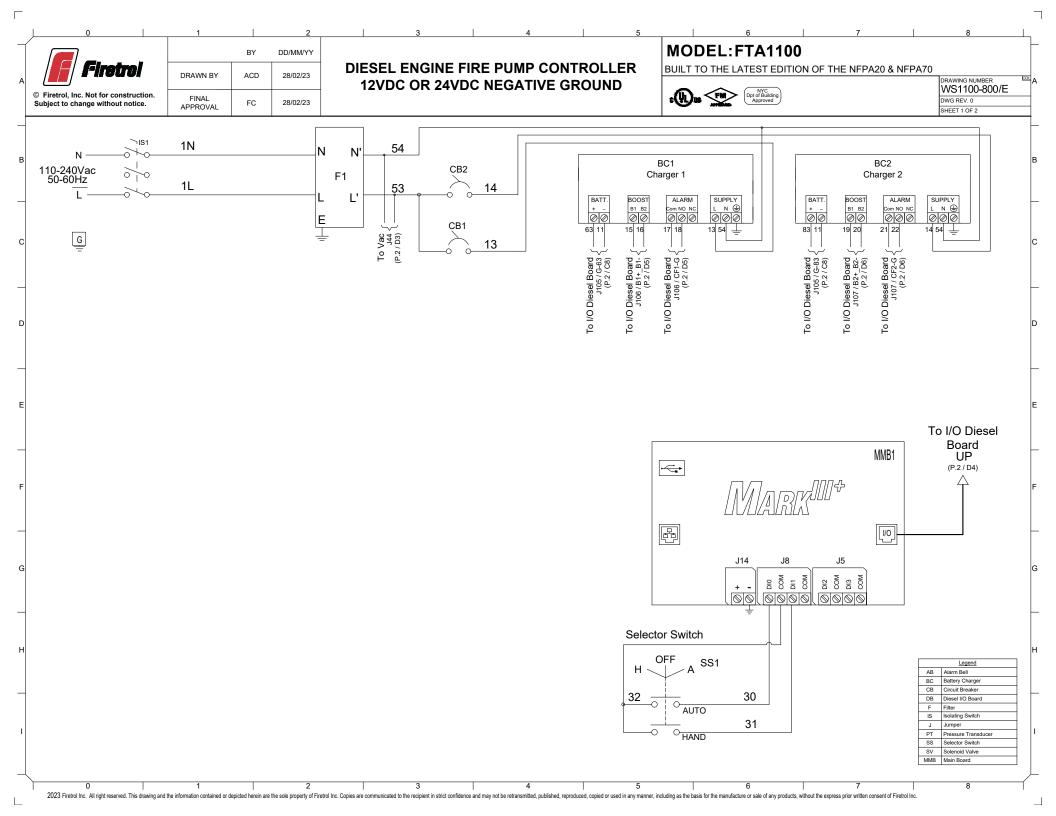
Designation	<u>Description</u>
BC1-BC2	Battery Charger #1 and #2
CB1-2	Magnetic Breaker 1 Pole 10 A
CB3-4	Magnetic Breaker 1 Pole 16 A
DB1	I/O Diesel Board
F1	Filter
IS1	Isolating Switch
SS1	Lockable 3 Position Selector Switch
MMB1	Main Board

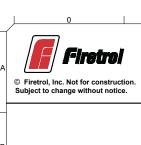




Front Door Layout

Internal Layout





* Remove this jumper to use this feature

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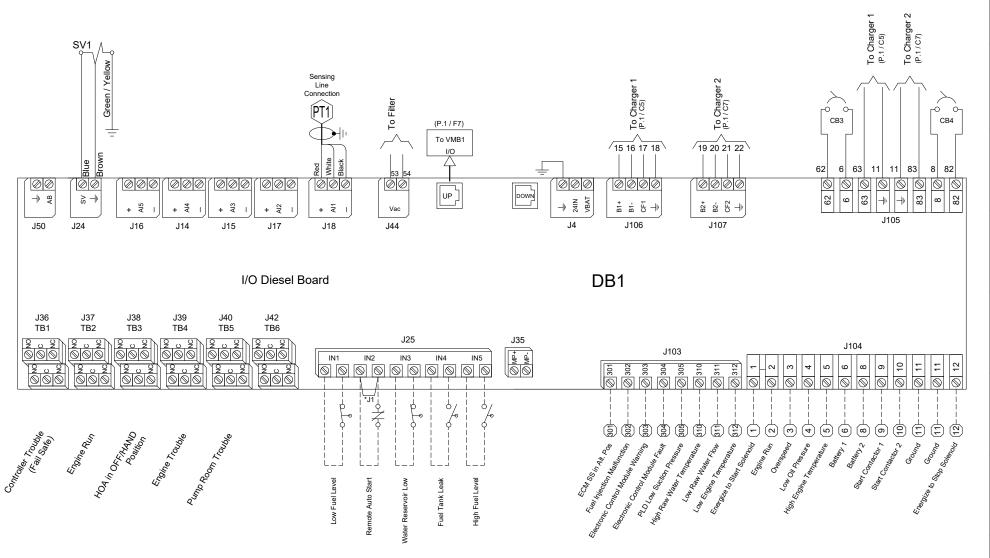
DIESEL ENGINE FIRE PUMP CONTROLLER 12VDC OR 24VDC NEGATIVE GROUND

MODEL: FTA1100

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
WS1100-800/E
DWG REV. 0
SHEET 2 OF 2





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DIESEL ENGINE FIRE PUMP CONTROLLER 12VDC OR 24VDC NEGATIVE GROUND

Low Fuel Level

Fuel Tank Leak

High Fuel Level

Remote Auto Start

Water Reservoir Low

MODEL: FTA1100

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



Pump Room Trouble**

(Field

Programmable)

** Re-assignable

DRAWING NUMBER FC1100-800/E DWG REV. 0 SHEET 1 OF 1

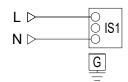
TB4

---- TB5

Power Supply

Terminals Wire Size: 14 - 6 AWG 1.8-2 Nm

110-240Vac 50-60Hz



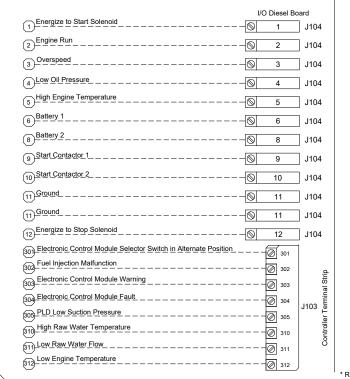
Engine Connections

All wiring between the controller and diesel engine shall be stranded (NFPA20) Wiring between controller and engine (terminals 301, 302, 303, 304, 305, 310, 311, 312, 2, 3, 4, 5) must be #14AWG as minimum.

Wiring between controller and engine (terminals 12 [rated at 10A or 22A for 20 seconds] 1, 9, 10 [rated at 10A]) must be stranded #10AWG as minimum.

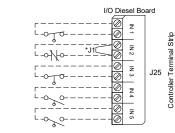
Wiring between controller and engine (terminals 6, 8, 11 [rated at 30A]) must be stranded and sized according to distance.

> 0-5' (0-1.5m) - 12 AWG (4 mm2) 6-10' (1.8-3m) - 10 AWG (6 mm2) 11-15' (3.3-4.5m) - 8 AWG (10 mm2) 16-20' (4.8-6m) - 2x10 AWG (2x6 mm2) 21-32' (6.4-9.75m) - 2x8 AWG (2x10 mm2)



Field Connections

Terminals Wire Size: 24 - 12 AWG 0.5 Nm



Network Connections

Terminals Wire Size: Shielded Female Connector RJ45

Located on Main Board Modbus TCP/IP----



Alarm Contacts

Terminals Wire Size: 24 - 12 AWG 0.5 Nm

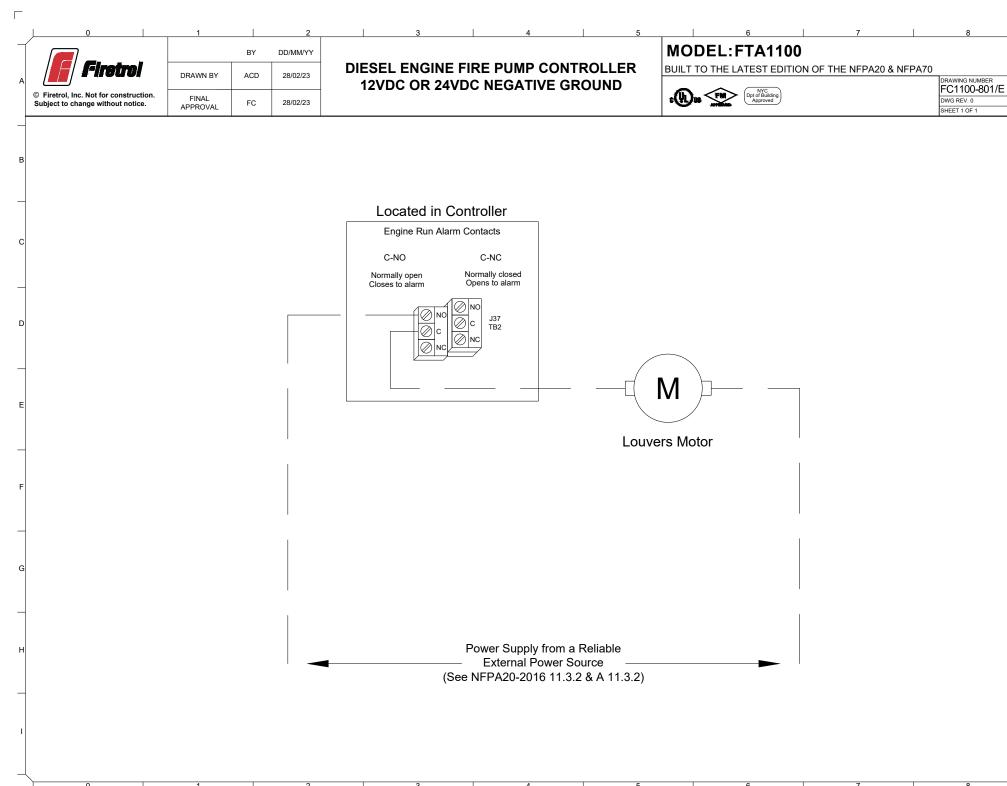
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Contact	Opens to Activate	{	(į
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	Opens to alarm	\	<u> </u>	NC		TB3
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* Remove this jumper to use this feature



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