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

I/O Diesel Board

NO

NO

С

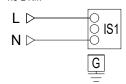
TB5

TR6

Power Supply

Terminals Wire Size: 14 - 6 AWG

110-240Vac 50-60Hz



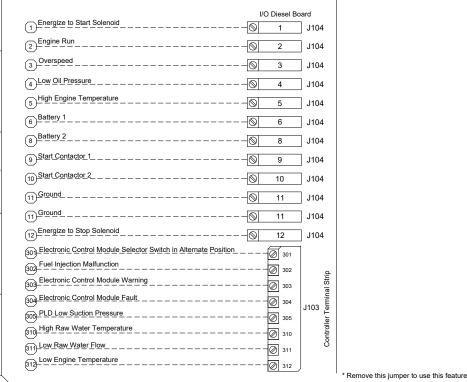
Engine Connections

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:



Network Connections

Terminals Wire Size: Shielded Female Connector RJ45

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

Strip

24 - 12 AWG 0.5 Nm Normally Closed Opens to alarm

Opens to alarm

Normally Closed

Opens to alarm

Normally Opened C Closes to alarm NC Controller Trouble (Fail Safe) ----- TB1 Normally Closed NO Opens to alarm Normally Opened С Closes to alarm NC Normally Opened NO Closes to activate Louver Activation Contact Normally Closed С Opens to Activate NC TB2 Normally Opened NO Closes to alarm Engine Run Normally Closed С Opens to alarm NC Normally Opened NO Closes to alarm Normally Closed С

Alarm Contacts

Terminals Wire Size:

NC HOA in OFF/HAND Position Normally Opened NO Closes to alarm Normally Closed С Opens to alarm NC Normally Opened NO Normally Closed С Opens to alarm NC Engine Trouble*

NC Normally Opened NO Closes to alarm Normally Closed С Opens to alarm Pump Room Trouble** NC Normally Opened NO Closes to alarm Normally Closed С Opens to alarm NC

Normally Opened

Closes to alarm

Normally Closed Onens to alarm (Field Programmable) Normally Closed

** Re-assignable

Normally Opened NO Closes to alarm C NC Normally Opened NO С Opens to alarm NC

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