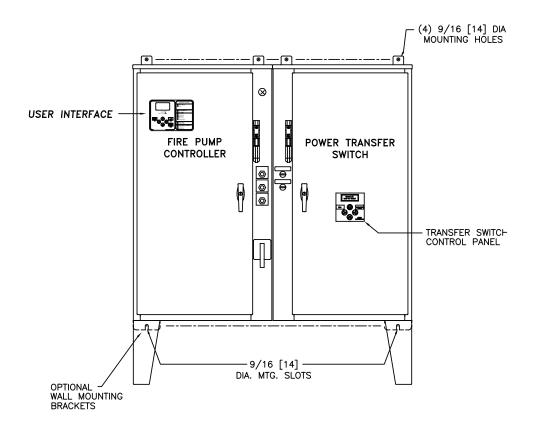


Standard Drawing Package FTA1300 / FTA950

Wye-Delta Open Transition Starting
With Power Transfer Switch



(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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Dimensional Drawing Lookup Table

FTA1300
Wye-Delta Open Transition Starting

UNITS WITHOUT POWER TRANSFER SWITCH

	SHORT-CIRCUIT (WITHSTAND) CURRENT RATING							
	42,000 Amps RMS Sym. Maximum	65,000 Amps RMS Sym. Maximum	200,000 Amps RMS Sym. Maximum					
DRG. NO.	LINE		DD1300-51	DD1300-55	DD1300-59			
			H.P. RANGE	H.P. RANGE	H.P. RANGE			
200		250	3 - 60	75 - 100	125 - 200			
208		250	3 - 60	75 - 125	150 - 200			
220 - 240		300	3 - 60	75 - 125	150 - 250			
380 - 415		400 - 500	3 - 100	125 - 200	250 - 350			
440 - 480		600	3 - 150	200 - 250	300 - 500			
550 - 600			3 - 150	200 - 300	350 - 500			

UNITS WITH POWER TRANSFER SWITCH

	SHORT-CIRCUIT (WITHSTAND) CURRENT RATING							
	42,000 Amps RMS Sym. Maximum	65,000 Amps RMS Sym. Maximum	200,000 Amps RMS Sym. Maximum					
DRG. NO.	NO. DD1300-65 DD1300-65		DD1300-61	DD1300-63	DD1300-65			
LINE VOLTAGE	H.P. RANGE	H.P. RANGE	H.P. RANGE	H.P. RANGE	H.P. RANGE			
200		250	3 - 60	75 - 100	125 - 200			
208		250	3 - 60	75- 125	150 - 200			
220 - 240		300	3 - 60	75 - 125	150 - 250			
380 - 415		400 - 500	3 - 100	125 - 200	250 - 350			
440 - 480		600	3 - 150	200 - 250	300 - 500			
550 - 600			3 - 150	200 - 300	350 - 500			

CONSULT FACTORY FOR VOLTAGES OR HORSEPOWERS NOT SHOWN

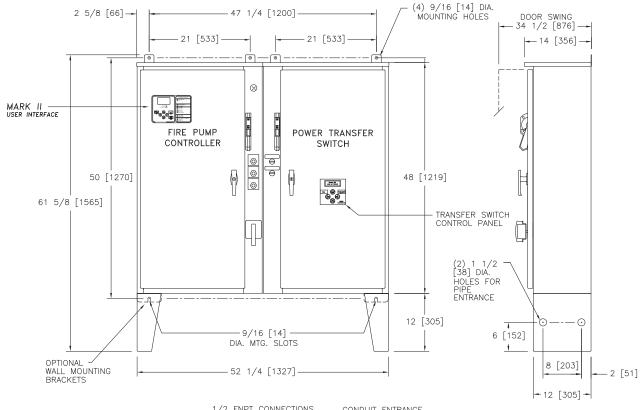
					UPDATED TITLE BLOCK		С	280820	JMW	TEF	10-21-19
					SEE ECN		В	237286	TEF	TEF	05-29-12
	SIZE A BY DATE		REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE		
	DRAWN BY	JLB	07-12-02	F Firetrol, Inc.	LOOKUP TABLE	FTA1300	DRAWING NUMBER ED1300-02				
THIRD ANGLE		020	0		DIMENSIONAL DRAWING LOOKUP TABLE OPEN TRANSITION WYE-DELTA			300-0			
PROJECTION	FINAL APPROVAL	TEF	07-12-02	© Firetrol, Inc. Not for construction. Subject to change without notice.			DWG C	ECN 280820		SH	HEET 1 OF 1

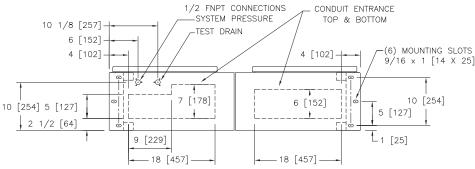


Mark IIxg Electric Fire Pump Controllers

Dimensions and Shipping Weight

FTA1300 / FTA950
Wye-Delta Open Transition Starting With Power Transfer Switch





STANDARD WITHSTAND RATINGS 200-600V - 100,000 Amps RMS Sym. INTERMEDIATE WITHSTAND RATINGS 200-600V - 150,000 Amps RMS Sym. HIGH WITHSTAND RATINGS 200-600V - 200,000 Amps RMS Sym

LINE VOLTAGE	MOTOR HORSEPOWER
200	□ 3-60
208	□ 3-60
220-240	□ 3-60
380-415	□ 3-100
440-480	□ 3-150
550-600	□ 3-150

APPROXIMATE SHIPPING WEIGHT 525 [238]

DO NOT INSTALL IN AMBIENT TEMPERATURES BELOW 41°F [5°C].

ALL DIMENSIONS - INCHES [MM] SHIPPING WEIGHT - POUNDS [KG]

THIS DIMENSION DRAWING COVERS FTA1300 CONTROLLERS AT THE HORSEPOWER, VOLTAGE AND WITHSTAND RATINGS AS LISTED IN THE TABLE. FOR OTHER HORSEPOWER OR WITHSTAND RATINGS, REFER TO ED1300-02

SPECIFICATIONS AND DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION. REQUEST CONSTRUCTION DRAWINGS FROM FIRETROL OR YOUR LOCAL FIRETROL REPRESENTATIVE.

JMW TEF 09-13-19

					ADDED COMPONENTS TO MEET FM REQUIREMENTS	В	228550	JC	TEF	08-10-10	
	SIZE A	BY	DATE		REVISION DESCRIPTION		ECN NO	BY	APP	DATE	
	DRAWNBY	TEF	07-08-02	Firetrol, Inc.	DIMENSIONS & SHIPPING WEIGHT FTA1300 WITH FTA950	DRAWING NUMBER					
THIRD ANGL	·	IEF	07-06-02				DD1300-61				
PROJECTION	FINAL APPROVAL		07-08-02	© Firetrol, Inc. Not for construction. Subject to change without notice.	OPEN TRANSITION WYE-DELTA FIRE PUMP CONTROLLER WITH POWER TRANSFER SWITCH	DWG C	NO 28			EET 1 OF 1	

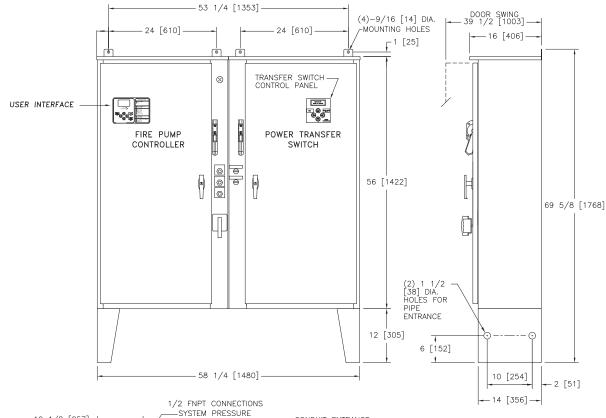
UPDATED TITLE BLOCK

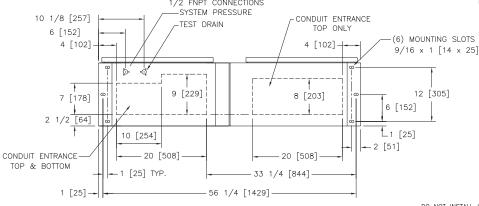


Mark IIxe Electric Fire Pump Controllers

Dimensions and Shipping Weight

FTA1300 / FTA950
Wye-Delta Open Transition Starting
With Power Transfer Switch





\$\text{STANDARD WITHSTAND RATINGS}\$200-6600V - 100,000 Amps RMS Sym. INTERMEDIATE WITHSTAND RATINGS\$200-600V - 150,000 Amps RMS Sym. HIGH WITHSTAND RATINGS\$200-600V - 200,000 Amps RMS Sym. \$\text{SYM}\$\$

	occ range rane cyrin
LINE VOLTAGE	MOTOR HORSEPOWER
200	□ 75-100
208	□ 75-125
220-240	□ 75-125
380-415	□ 125-200
440-480	□ 200-250
550-600	□ 200-300

APPROXIMATE SHIPPING WEIGHT 585 [265] DO NOT INSTALL IN AMBIENT TEMPERATURES BELOW 41°F [5°C].

ALL DIMENSIONS - INCHES [MM] SHIPPING WEIGHT - POUNDS [KG]

THIS DIMENSION DRAWING COVERS FTA1300 CONTROLLERS AT THE HORSEPOWER, VOLTAGE AND WITHSTAND RATINGS AS LISTED IN THE TABLE. FOR OTHER HORSEPOWER OR WITHSTAND RATINGS, REFER TO ED1300-02

SPECIFICATIONS AND DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION. REQUEST CONSTRUCTION DRAWINGS FROM FIRETROL OR YOUR LOCAL FIRETROL REPRESENTATIVE.

	SIZE A	BY	DATE
THIRD ANGLE	DRAWN BY	TEF	07-24-02
PROJECTION	FINAL APPROVAL	TEF	07-24-02

	F Firetrol, Inc.
1	© Firetrol, Inc. Not for construction.

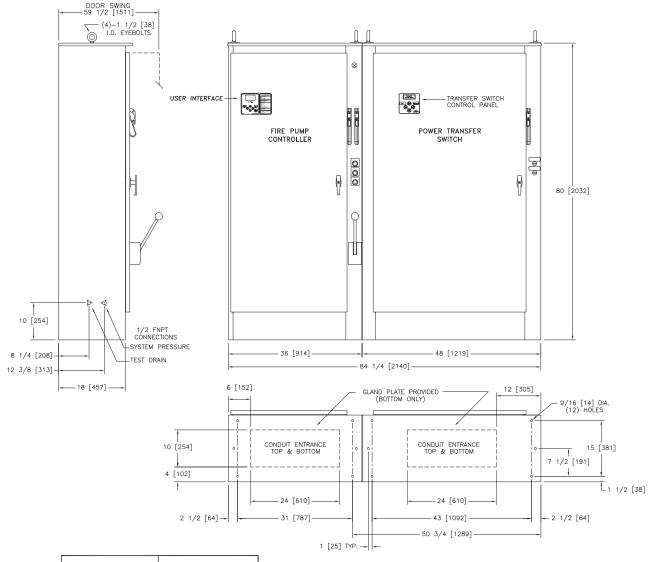
UPDATED TITLE BLOCK		D	280820	JMW	TEF	09-13-19		
REVISED MOTOR HORSEPOWER CHART			237364	JMW	TEF	05-31-12		
REVISION DESCRIPTION			ECN NO	BY	APP	DATE		
DIMENSIONS & SHIPPING WEIGHT FTA1300 WITH FTA950			DRAWING NUMBER DD1300-63					
			7 DD 1300 - 03					
OPEN TRANSITION WYE-DELTA FIRE PUMP CONTROLLER WITH POWER TRANSFER SWITCH			ECN 280	0820	s	HEET 1 OF 1		



Mark Ilxg Electric Fire Pump Controllers

Dimensions and Shipping Weight

FTA1300 / FTA950
Wye-Delta Open Transition Starting
With Power Transfer Switch



STANDARD WITHSTAND RATINGS 200-600V 100,000 Amps RMS Sym. INTERMEDIATE WITHSTAND RATINGS 200-600V 150,000 Amps RMS Sym. HIGH WITHSTAND RATINGS 200-600V 200,000 Amps RMS Sym.

□ 350-500

STANDARD INTERMEDIATE WITHSTAND RATINGS 200-480V 65,000 Amps RMS Sym. STANDARD LOW
WITHSTAND RATINGS
550-600V
42,000 Amps RMS Sym.

LINE VOLTAGE MOTOR HORSEPOWER MOTOR HORSEPOWER □ 125-200 □ 250 200 208 □ 150-200 250 300 220-240 □ 150-250 □ 250-350 □ 400-500 380-415 440-480 □ 300-500 600

APPROXIMATE SHIPPING WEIGHT 1575 [714]

DO NOT INSTALL IN AMBIENT TEMPERATURES BELOW 41°F [5°C].

ALL DIMENSIONS - INCHES [MM] SHIPPING WEIGHT - POUNDS [KG]

THIS DIMENSION DRAWING COVERS FTA1300 CONTROLLERS AT THE HORSEPOWER, VOLTAGE AND WITHSTAND RATINGS AS LISTED IN THE TABLE. FOR OTHER HORSEPOWER OR WITHSTAND RATINGS, REFER TO ED1300-02

SPECIFICATIONS AND DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION. REQUEST CONSTRUCTION DRAWINGS FROM FIRETROL OR YOUR LOCAL FIRETROL REPRESENTATIVE.

	SIZE A	BY	DATE
THIRD ANGLE	DRAWN BY	TEF	07-24-02
PROJECTION	FINAL APPROVAL	TEF	07-24-02

550-600



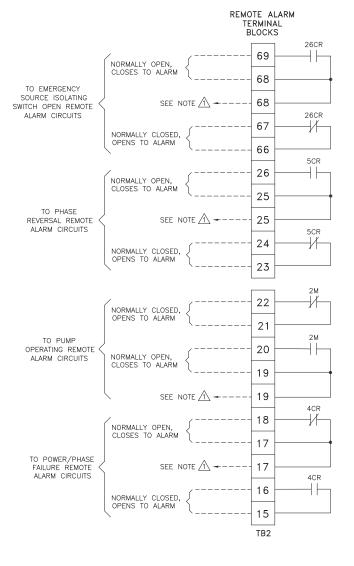
UPDATED TITLE BLOCK		E	280820	JMW	TEF	09-13-19
REVISED MOTOR HORSEPOWER CHART			237364	JMW	TEF	05-31-12
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
DIMENSIONS & SHIPPING WEIGHT	FTA1300 WITH FTA950	DD1300-65				
ODEN TRANSITION WAYE DELTA FIDE	DUMP CONTROLLED	יו טט	300-0	J		
OPEN TRANSITION WYE-DELTA FIRE PUMP CONTROLLER WITH POWER TRANSFER SWITCH		DWG E	ECN 280	0820	s	HEET 1 OF 1



Field Connections FTA1300 / FTA950

Wye-Delta Open Transition Starting
With Power Transfer Switch

Mark IIxe Electric Fire Pump Controllers

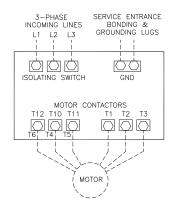


A SPARE TERMINALS PROVIDED FOR PARALLEL CONNECTION OF REMOTE ALARMS (IF REQUIRED)

NOTE: TERMINALS FOR CUSTOMER CONNECTIONS REQUIRE 3.5MM SLOTTED SCREW DRIVER

TERMINAL TIGHTENING TORQUE							
TERMINAL TYPE	WIRE SIZE	TIGHTENING TORQUE					
CONTROL AND ALARM TERMINALS	#14-12 AWG [2.5-4 MM ²]	5.6 lb-in [.6 Nm]					

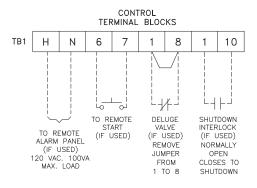
-NOTE-ALARM CONTACT RATING PILOT DUTY 250 VAC, 30 VDC 10 A. MAX. LOAD



NOTES

- 1— Incoming line terminals are provided to accommodate wire sizes at 125% of motor full load current per NFPA 70-2008, National Electrical Code, Table 430-250, Section 695.6(c), and Table 310-16, 75' rated Copper conductors.
- 2- Controller is phase rotation sensitive. Incoming lines L1, L2 and L3 must be in ABC, right hand rotation sequence for proper operation of the phase monitor.
- 3— Motor connections shown are typical. Since motor connections vary widely, refer to the motor connection diagram for specific wiring arrangement.
- 4— For Incoming line terminals and motor terminals field wire capacity refer to drawing FC1300—51

NOTE: USE COPPER CONDUCTORS ONLY FOR ALL CONNECTIONS



PRESSURE SYSTEM CONNECTION 1/2" FNPT

	SIZE A	BY	DATE
THIRD ANGLE	DRAWN BY	TEF	05-06-02
PROJECTION	FINAL APPROVAL	TEF	05-06-02



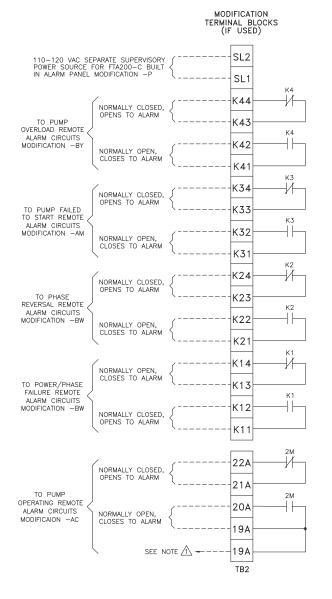
UPDATED TITLE BLOCK		В	280820	JMW	TEF	09-13-09
ADD NOTE FOR COPPER CONDUCTORS ON	Α	226253	JC	TEF	12-09-09	
REVISION DESCRIPTION	REV	ECN NO	BY	APP	DATE	
FIELD CONNECTIONS	FTA1300 WITH FTA900, FTA950	DRAWING NUMBER FC1300-55				
MAKE DELTA ODEN TRANSITION FIDE	DUMP CONTROLLED	TC1300 - 33				
WYE-DELTA OPEN TRANSITION FIRE WITH POWER TRANSFER SWITCH	DWG B	ECN 280	0820	SH	HEET 1 OF 2	



Field Connections FTA1300 / FTA950

Wye-Delta Open Transition Starting
With Power Transfer Switch

Mark IIxg Electric Fire Pump Controllers



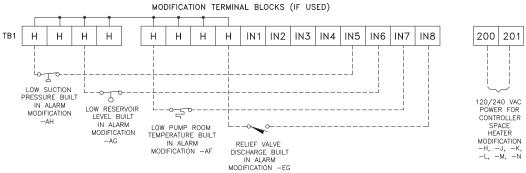
A SPARE TERMINALS PROVIDED FOR PARALLEL CONNECTION OF REMOTE ALARMS (IF REQUIRED)

NOTE: TERMINALS FOR CUSTOMER CONNECTIONS REQUIRE 3.5MM SLOTTED SCREW DRIVER

TERMINAL	TIGHTENING TOP	RQUE
TERMINAL TYPE	WIRE SIZE	TIGHTENING TORQUE
CONTROL AND ALARM TERMINALS	#14-12 AWG [2.5-4 MM ²]	5.6 lb-in [.6 Nm]

-NOTE-ALARM CONTACT RATING PILOT DUTY 250 VAC, 30 VDC 10 A. MAX. LOAD

NOTE: USE COPPER CONDUCTORS ONLY FOR ALL CONNECTIONS



					UPDATED TITLE BLOCK		В	280820	JMW	TEF	09-13-09
					ADD NOTE FOR COPPER CONDUCTORS ONLY;UPDATED LOGO & TITLE BLOCK			226253	JC	TEF	12-09-09
	SIZE A	BY	DATE		REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
\rightarrow		DRAWNBY TEF 05-06-02 Firetrol, Inc.		E Firetrol Inc.	FIELD CONNECTIONS	FTA1300 WITH FTA900, FTA950	DRAWING NUMBER				
THIRD ANGLE	DRAWNBY			WAVE DELTA OPEN TRANSITION FIDE DUMP CONTROLLED			− FC1300-55				
PROJECTION	FINAL APPROVAL	TEF	05-06-02	© Firetroi, Inc. Not for construction.	WYE-DELTA OPEN TRANSITION FIRE PUMP CONTROLLER WITH POWER TRANSFER SWITCH			ECN 280	0820	SH	HEET 2 OF 2



Field Connections FTA1300

Wye-Delta Open Transition Starting Line & Motor Wire Terminal Capacity

LINE TERMINALS-WIRE CAPACITY AND QUANTITY (CU) $\langle 1 \rangle$

					, ,		
	MAX	ІМИМ МОТОІ	R HORSEPO	WER		WIRE SIZE (CU)	WIRE SIZE SERVICE ENTRANCE (2)
200V	208V	220-240V	380-415V	440-480V	550-600V	PER PHASE	GROUND LUG (CU)
20	20	25	40	50	60	(1) #14 AWG-#1/0 AWG (1) 2.5 MM ² -50 MM ²	(2) #14 AWG-#2/0 AWG (2) 2.5 MM ² -70 MM ²
40	40	40	75	100	125	(1) #4 AWG-300 kcmil (1) 25 MM ² -150 MM ²	(2) #14 AWG-#2/0 AWG (2) 2.5 MM ² -70 MM ²
60	60	60	100	150	150	(1) #4 AWG-300 kcmil (1) 25 MM ² -150 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²
100	100	100	150	250	300	(1) 250 kcmil-500 kcmil (1) 120 MM ² -240 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²
	125	125	200			(2) #3/0 AWG-250 kcmil (2) 95 MM ² -120 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²
200	200	250	350	500		(3) #2/0 AWG-400 kcmil (3) 70 MM ² -200 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²
250	250	300	500	600		(4) #4/0 AWG-500 kcmil (4) 100 MM ² -240 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²

MOTOR TERMINALS-WIRE CAPACITY AND QUANTITY (CU) $\langle 1 \rangle$

	MAXI	mum motof	R HORSEPO	WER		WIRE SIZE (CU)
200V	208V	220-240V	380-415V	440-480V	550-600V	PER PHASE
60	60	60	100	150	150	(1) #6 AWG-#2/0 AWG (1) 16 MM ² -70 MM ²
75	75	100	150	200	250	(1) #6 AWG-250 kcmil (1) 16 MM ² -120 MM ²
150	150	150	250	350	450	(1) #4 AWG-400 kcmil (1) 25 MM ² -200 MM ²
		200	300	450	500	(2) #4 AWG-500 kcmil (2) 25 MM ² -240 MM ²
250	250	300	500	600		(2) 250 kcmil-500 kcmil (2) 120 MM ² -240 MM ²

FOR CORRECT WIRE SIZING, REFER TO NATIONAL ELECTRICAL CODE, NFPA 70.

WHEN REQUIRED BY AUTHORITY HAVING JURISDICTION.

_ +	SIZE A	BY	DATE	/
THIRD ANGLE	DRAWN BY	JC	02-13-12	
PROJECTION	FINAL APPROVAL	TEF	02-13-12	S

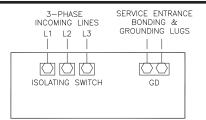
		SIZE A	BY	DATE		REVISION DESCRIPTION		REV	ECN NO	BY	LAP
PROJECTION FINAL	DRAWN BY	JC	02-13-12	Firetrol, Inc.	FIELD CONNECTIONS	FTA1300	DRAWING NUMBER FC1300-51		1		
		- 00			WYE-DELTA OPEN TRANSITION FIRE PUMP CONTROLLER			FC1300 - 31			
	FINAL APPROVAL	TEF	02-13-12	© Firetrol, Inc. Not for construction. Subject to change without notice.	LINE AND MOTOR FIELD WIRE TERMI		DWG E	ECN 280)820		
	All rights reserved. The	drawing and the in	formation co	ntained or depicted	herein are the sole property of Firetrol, Inc. Copies are communicated to the re	cipient in strict confidence and may not be retransmitted, published, reproduced,	copied or used in any manor, including as the basis for the manufacture or	sale of any produ	cts, without the exp	ress prior	aritter

	UPDATED TITLE BLOCK	E 280820 JMW TEF 09-13-19					
	UPDATED LINE TERMINAL HP/VOLTAGE CH	D	270091	TEF	TEF	11-30-17	
	REVISION DESCRIPTION	REV	ECN NO	BY	APP	DATE	
	FIELD CONNECTIONS	FTA1300	DRAWING NUMBER FC1300-51				
1	MAKE DELTA ODEN TO MIGITION FIDE	DUILED COLUMN TO CLUED	FC1300 - 31				
	WYE-DELTA OPEN TRANSITION FIRE LINE AND MOTOR FIELD WIRE TERMI	DWG E	ECN 280	820	s	HEET 1 OF 1	



Field Connections FTA950

Assembled With Electric Fire Pump Controllers



NOTE

Incoming line terminals are provided to accomodate wire sizes at 125% of motor full load current per NFPA 70, National Electrical Code, Table 430-250, Section 695.6(c), and Table 310-16, 75° rated Copper conductors.

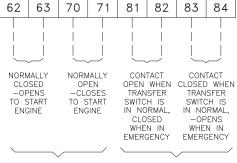
-USE COPPER CONDUCTORS ONLY-

LINE TERMINALS-WIRE CAPACITY AND QUANTITY (CU) $\langle 1 \rangle$

LINE IEKI	LINE TERMINALS-WIRE CAPACITY AND QUANTITY (CO)											
	MAX	імим мото	R HORSEPO	WER		WIRE SIZE (CU)	WIRE SIZE SERVICE ENTRANCE (2)					
200V	208V	220-240V	380-415V	440-480V	550-600V	PER PHASE	GROUND LUG (CU)					
20	20	25	40	50	60	(1) #14 AWG-#1/0 AWG (1) 2.5 MM ² -50 MM ²	(2) #14 AWG-#2/0 AWG (2) 2.5 MM ² -70 MM ²					
40	40	40	75	100	125	(1) #4 AWG-300 kcmil (1) 25 MM ² -150 MM ²	(2) #14 AWG-#2/0 AWG (2) 2.5 MM ² -70 MM ²					
60	60	60	100	150	150	(1) #4 AWG-300 kcmil (1) 25 MM ² -150 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²					
100	100	100	150	250	300	(1) 250 kcmil-500 kcmil (1) 120 MM ² -240 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²					
	125	125	200			(2) #3/0 AWG-250 kcmil (2) 95 MM ² -120 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²					
200	200	250	350	500		(3) #2/0 AWG-400 kcmil (3) 70 MM ² -200 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²					
250	250	300	500	600		(4) #4/0 AWG-500 kcmil (4) 100 MM ² -240 MM ²	(2) #6 AWG-250 kcmil (2) 16 MM ² -120 MM ²					

- TO FOR CORRECT WIRE SIZING, REFER TO NATIONAL ELECTRICAL CODE, NFPA 70.
- WHEN REQUIRED BY AUTHORITY HAVING

CONTROL AND ALARM TERMINAL BLOCKS



ENGINE START CONTACTS TRANSFER SWITCH
POSITION INDICATOR
CONTACTS FOR REMOTE
ALARM CIRCUITS

MODIFICATION ALARM TERMINAL BLOCKS



OPEN WHEN CLOSED WHE
TRANSFER
SWITCH IS SWITCH IS
IN NORMAL,
CLOSED -OPENS
WHEN IN WHEN IN
EMERGENCY EMERGENCY

TRANSFER SWITCH
POSITION INDICATOR
CONTACTS FOR REMOTE
ALARM CIRCUITS
(MODIFICATION -EC)

IOTE: CONTROL AND ALARM TERMINALS FOR CUSTOMER
CONNECTIONS REQUIRE 3.5MM SLOTTED SCREW DRIVER

-NOTE-ENGINE START CONTACT RATING 1/2 AMP, 30VDC

TERMINAL WIRE	CAPACITY
TERMINAL TYPE	WIRE SIZE
CONTROL AND ALARM TERMINALS	#14-12 AWG [2.5-4 MM ²]

-NOTE-ALARM CONTACT RATING PILOT DUTY 240 VAC, 28 VDC 5 AMP MAX. LOAD

				_
+	SIZE A	BY	DATE	
THIRD ANGLE	DRAWN BY	TEF	05-06-10	
PROJECTION	FINAL APPROVAL	TEF	05-06-10	

F Firetrol, Inc.	
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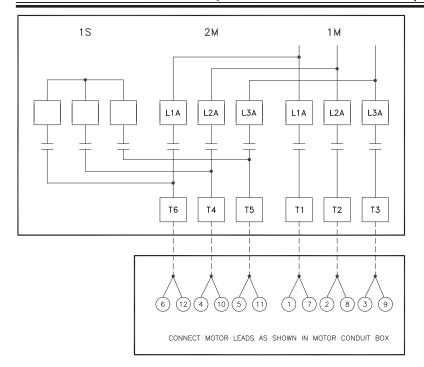
POWER TRANSFER SWITCH FOR GENE OR SECOND UTILITY POWER SOURCE	DWG D	ECN 28	1357	sı	HEET 1 OF 1		
DOWED TRANSFER OWITOU FOR OFNE	7 FC930-33						
FIELD CONNECTIONS	DRAWING NUMBER FC950-55						
REVISION DESCRIPTION	REV	ECN NO	BY	APP	DATE		
REVISED LINE TERMINAL CHART, CHANGED	С	270091	TEF	TEF	11-29-17		
UPDATED TITLE BLOCK	D	281357	JMW	TEF	10-16-19		



Mark Ilxg Electric Fire Pump Controllers

Typical Motor Connection Diagram FTA1300 / FTA1350

Wye-Delta Starting (12-Lead Motors)



FOR SINGLE VOLTAGE 12-LEAD WYE-DELTA MOTORS

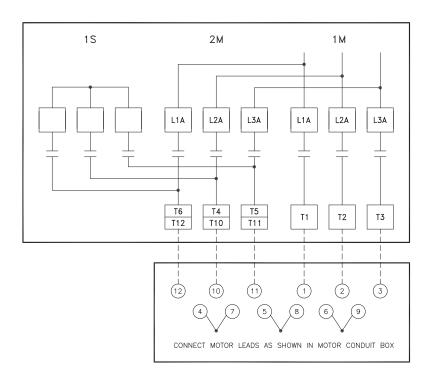
- OR -

FOR DUAL VOLTAGE WYE-DELTA MOTORS CONNECTED TO OPERATE ON THE LOWER OF THE TWO VOLTAGES 200-208 FOR 200/400V RATED MOTORS OR 220-240 FOR 230/460V RATED MOTORS.

SIX (6) WIRES REQUIRED BETWEEN MOTOR AND CONTROLLER.

IMPORTANT:

THIS DRAWING IS FOR GENERAL INFORMATION ONLY. REFER TO MOTOR CONNECTION DIAGRAM FOR SPECIFIC WIRING ARRANGEMENT.



FOR DUAL VOLTAGE WYE-DELTA MOTORS CONNECTED TO OPERATE ON THE *HIGHER* OF THE TWO VOLTAGES 440-480 FOR 230/460V RATED MOTORS OR 380-415 FOR 200/400V RATED MOTORS.

SIX (6) WIRES REQUIRED BETWEEN MOTOR AND CONTROLLER.

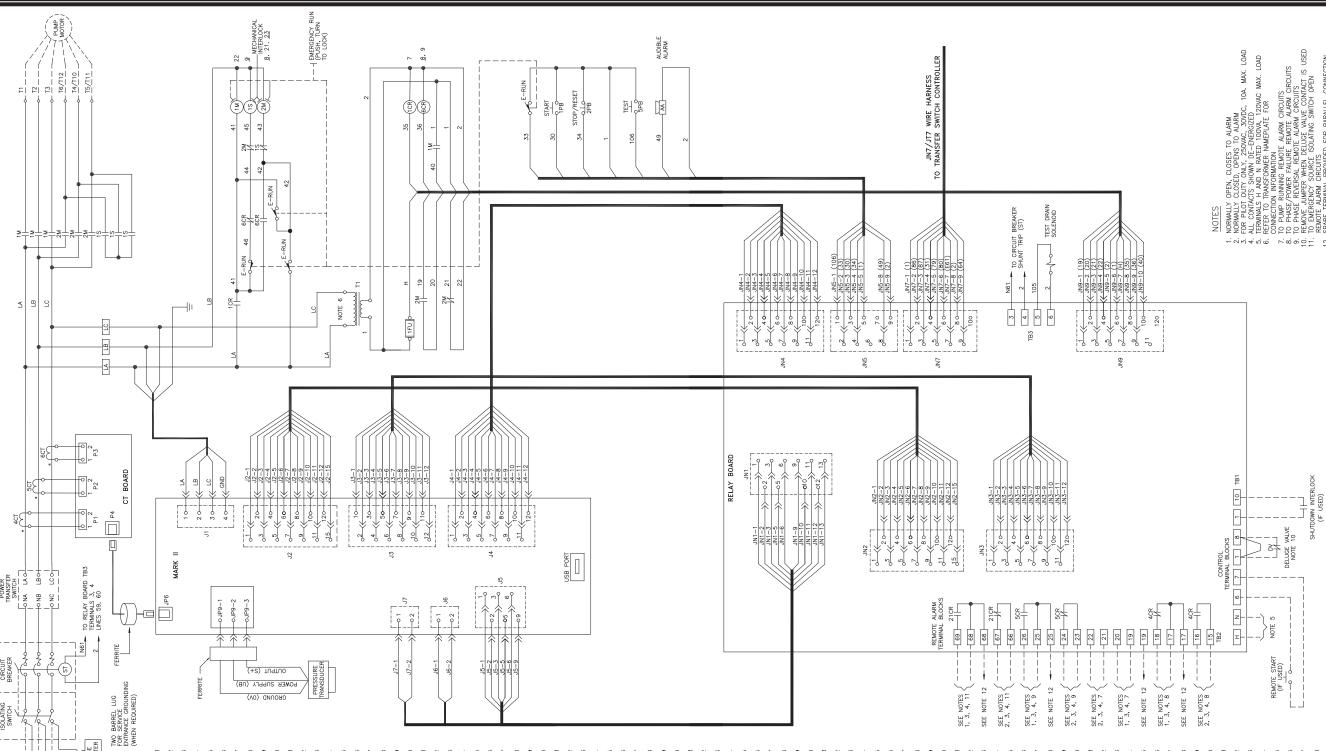
NOTES:

- 1. THREE (3) LEAD AND NINE (9) LEAD MOTORS *CANNOT* BE USED FOR WYE-DELTA STARTING.
- 2. TWELVE (12) LEAD PART WINDING MOTORS *CANNOT* BE USED FOR WYE-DELTA STARTING AT 240/230V.

B 280820 JMW TEF 09-12-19

					ADDED SINGLE VOLTAGE, 12 LEAD, Y-D MOTORS			-	TEF	TEF	11-22-00	
	SIZE A	BY	DATE		REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE	
$\Rightarrow \bigoplus$		Y JMW	09-12-95	F iretrol, Inc.	MOTOR CONNECTIONS	FTA1300 / FTA1350	DRAWING NUMBER NS1300-01					
PROJECTION		TEF	09-12-95	© Firetrol, Inc. Not for construction. Subject to change without notice.	OPEN/CLOSED TRANSITION WYE-DELT	A FIRE PUMP CONTROLLERS	DWG B	DWG D ECN 200020			HEET 1 OF 1	
			L					1				

UPDATED TITLE BLOCK

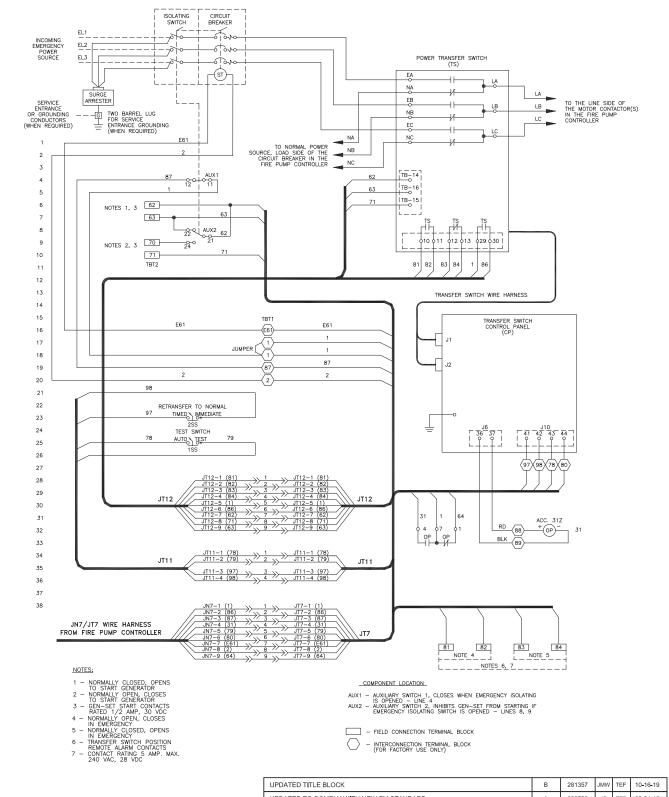


					UPDATED TITLE BLOCK			280820	JMW	TEF	09-12-19	
					ADDED TEST SOLENOID & AUDIBLE ALARM TO COMPLY WITH NEW FM STD			228528	JC	TEF	08-31-10	
	SIZE B	BY	DATE	Firetrol, Inc. WIRING SCHEMATIC	REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE	
	DRAWN BY	TEE	05-04-02		WIRING SCHEMATIC	FTA1300 WITH FTA950	DRAWING NUMBER WS1300-55					
THIRD ANGLE			00 0 1 02		ODEN TRANSITION MAYE DELTA FIRE	TITA FIDE DUMD CONTROLLED		300-3	-00-33			
	FINAL APPROVAL	TEF 05-04-02 © Firetrol, Inc. Not for construction. Subject to change without notice.			WITH POWER TRANSFER SWITCH	PUMP CONTROLLER	DWG REV	ECN 280820		S⊦	HEET 1 OF 1	
	APPROVAL			Subject to change without notice.	OPEN TRANSITION WYE-DELTA FIRE WITH POWER TRANSFER SWITCH blieft in strict confidence and may not be retransmitted, published, reproduced,		REV 					



Wiring Schematic FTA950

Assembled With Electric Fire Pump Controllers



						UPDATED TO COMPLY WITH NEW FM STANDARD			228528	JC	TEF	08-31-10
THIRD ANGI PROJECTIO		SIZE A	BY	DATE REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE		
	$\Rightarrow \blacksquare$	DRAWNBI	TEF	05-25-10	· — ·	WIRING SCHEMATIC	FTA950	DRAWING NUMBER				
	THIRD ANGLE		ILI	00 20 10		FIRE PUMP POWER TRANSFER SWITCH FOR GEN-SET			─ WS950-55			
		FINAL APPROVAL		05-25-10	© Firetrol, Inc. Not for construction. Subject to change without notice.	AND SECOND UTILITY POWER SOURCE			ECN 28			EET 1 OF 1