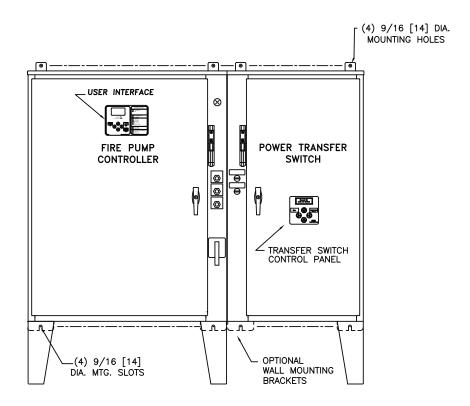


Standard Drawing Package FTA1500 / FTA950

Primary Resistor 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 FTA1500 Primary Resistor Starting

UNITS WITHOUT POWER TRANSFER SWITCH

		sно	DRT-CIRCUIT (WITHSTAND) CURRENT RATING					
	42,000 Amps RMS Sym. MaxImum	65,000 Amps RMS Sym. Maxlmum		200,000 Amps RMS Sym. MaxImum				
DRG. NO.	DD1500-60	DD1500-60	DD1500-52 DD1500-53 DD1500-56 DD1500-57 DD1500					
LINE VOLTAGE	H.P. RANGE	H.P. RANGE	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 - 100	125	150 - 200	
220 - 240		300	3 - 60		75 - 100	125	150 - 250	
380 - 415		400 - 500	3 - 100			125 - 200	250 - 350	
440 - 480		600	3 - 100	125 - 150		200 - 250	300 - 500	
550 - 600			3 - 100	125 - 150		200 - 300		

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.	DD1500-66	DD1500-66	66 DD1500-61 DD1500-62 DD1500-63 DD1500-64 DD1				
LINE VOLTAGE	H.P. RANGE	H.P. RANGE	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 - 100	125	150 - 200
220 - 240		300	3 - 60		75 - 100	125	150 - 250
380 - 415		400 - 500	3 - 100			125 - 200	250 - 350
440 - 480		600	3 - 100	125 - 150		200 - 250	300 - 500
550 - 600			3 - 100	125 - 150		200 - 300	

CONSULT FACTORY FOR VOLTAGES OR HORSEPOWERS NOT SHOWN

	SIZE A	BY	DATE
THIRD ANGLE	DRAWN BY	JLB	07-12-02
PROJECTION	FINAL APPROVAL	TEF	07-12-02



UPDATED TITLE BLOCK		С	281057	JMW	TEF	10-21-19
SEE ECN		В	237286	TEF	TEF	05-29-12
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
LOOKUP TABLE	FTA1500	DRAWING NUMBER — ED1500-02				
DIMENOIONAL DEAMINO LOOKUE TAR	E DDIAM DV DEGIGEANGE		300-02	_		
DIMENSIONAL DRAWING LOOKUP TABLE		DWG C	ECN 28	10578	$T_{\rm s}$	HEET 1 OF 1

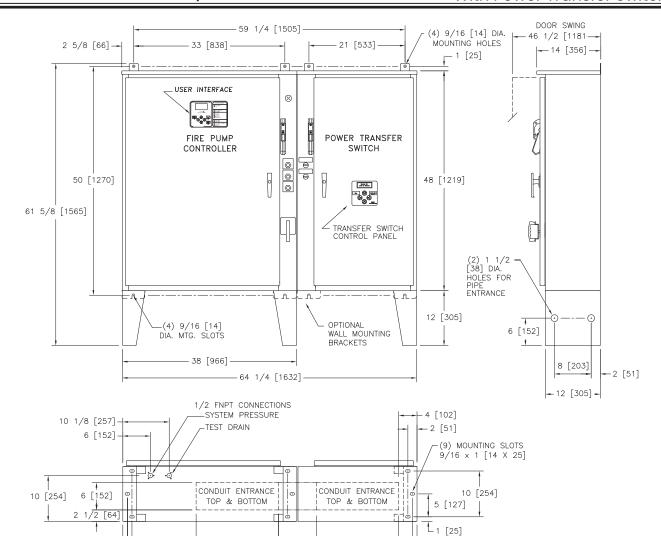


Mark Ilxg Electric Fire Pump Controllers

Dimensions and Shipping Weight

FTA1500 / FTA950 Primary Resistor Starting

With Power Transfer Switch



STANDARD WITHSTAND RATINGS 200-600V - 100,000 Amps RMS Sym 200-600V - 100,000 Amps Nm3 Sym.

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

HIGH WITHSTAND RATINGS
200-600V - 200,000 Amps RMS Sym.

1 [25] TYP.

1 [25]

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

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

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

THIS DIMENSION DRAWING COVERS FTA1500 CONTROLLERS AT THE HORSEPOWER, VOLTAGE AND WITHSTAND RATINGS AS LISTED IN THE TABLE. FOR OTHER HORSEPOWER OR WITHSTAND RATINGS, REFER TO ED1500-02

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

650 [295]

— 18 [457] -

30 1/4 [768]

	SIZE A	BY	DATE
THIRD ANGLE	DRAWN BY	TEF	08-11-10
PROJECTION	FINAL APPROVAL	TEF	08-11-10



—18 [457]·

-62 1/4 [1581]

UPDATED TITLE BLOCK		281057	JMW	TEF	10-02-19	
ORIGINAL ISSUE		228552	TEF	TEF	08-11-10	
REVISION DESCRIPTION		ECN NO	BY	APP	DATE	
DIMENSIONS AND SHIPPING WEIGHT FTA1500 WITH FTA950		DD1500-61				
DDIMARY DECICTOR FIRE DUMP CONTROLLER		1300-0	1			
PRIMARY RESISTOR FIRE PUMP CONTROLLER WITH POWER TRANSFER SWITCH		ECN 28	1057	s	HEET 1 OF 1	

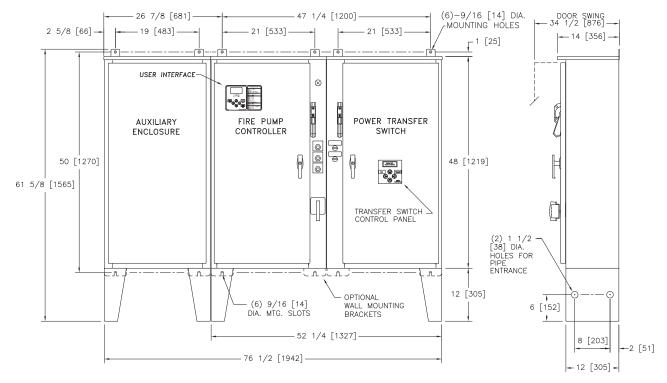


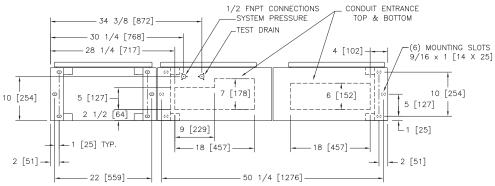
Mark Ilxg Electric Fire Pump Controllers

Dimensions and Shipping Weight

FTA1500 / FTA950 Primary Resistor 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	O
208	□
220-240	
380-415	□
440-480	□ 125-150
550-600	□ 125-150

APPROXIMATE SHIPPING WEIGHT 675 [306]

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

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

THIS DIMENSION DRAWING COVERS FTA1500 CONTROLLERS AT THE HORSEPOWER, VOLTAGE AND WITHSTAND RATINGS AS LISTED IN THE TABLE. FOR OTHER HORSEPOWER OR WITHSTAND RATINGS, REFER TO ED1500-02

1	SIZE A	BY	DATE	
THIRD ANGLE	DRAWN BY	TEF	07-23-02	
PROJECTION	FINAL APPROVAL	TEF	07-23-02	



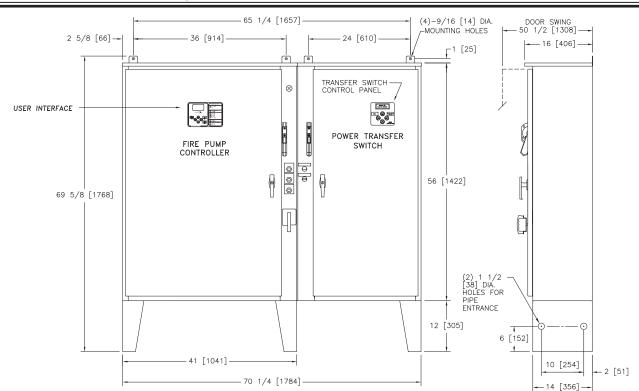
UPDATED TITLE BLOCK		С	281057	JMW	TEF	10-02-19
ADDED COMPONENTS TO MEET FM REQUIREMENTS		В	228552	JC	TEF	08-11-10
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
DIMENSIONS AND SHIPPING WEIGHT FTA1500 WITH FTA950		DD1500-62				
PRIMARY RESISTOR FIRE PUMP CONTROLLER		7 DD 1300 - 02				
WITH POWER TRANSFER SWITCH		DWG C	ECN 28	1057	SF	HEET 1 OF 1

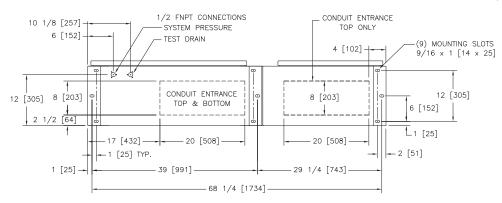


Mark Ilxg Electric Fire Pump Controllers

Dimensions and Shipping Weight

FTA1500 / FTA950 Primary Resistor 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	□ 75-100
208	□ 75-100
220-240	□ 75-100
380-415	□ -
440-480	
550-600	П -

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

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

THIS DIMENSION DRAWING COVERS FTA1500 CONTROLLERS AT THE HORSEPOWER, VOLTAGE AND WITHSTAND RATINGS AS LISTED IN THE TABLE. FOR OTHER HORSEPOWER OR WITHSTAND RATINGS, REFER TO ED1500-02

APPROXIMATE SHIPPING WEIGHT
715 [324]

_	SIZE A	BY	DATE
THIRD ANGLE	DRAWN BY	TEF	08-11-10
PROJECTION	FINAL APPROVAL	TEF	08-11-10



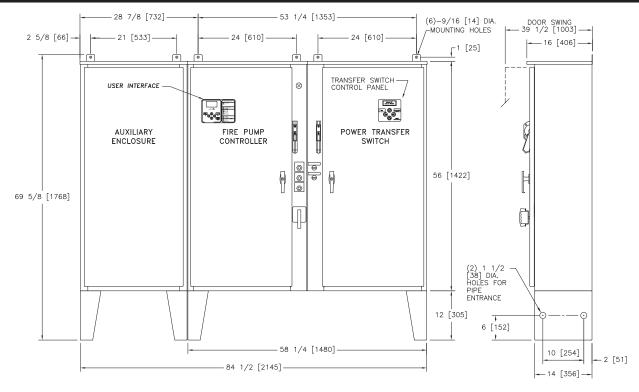
UPDATED TITLE BLOCK		А	281057	JMW	TEF	10-02-19
NEW ISSUE		- 1	228552	TEF	TEF	08-11-10
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
DIMENSIONS AND SHIPPING WEIGHT	FTA1500 WITH FTA950	DRAWING I	NUMBER 500-6	2		
DDILLAR DV DEGIGEOR FIRE DULL DO GOLIT	DOLLED	וטטו	JUU-0,)		
PRIMARY RESISTOR FIRE PUMP CONT WITH POWER TRANSFER SWITCH	KULLEK	DWG A	ECN 28	1057	s	SHEET 1 OF 1

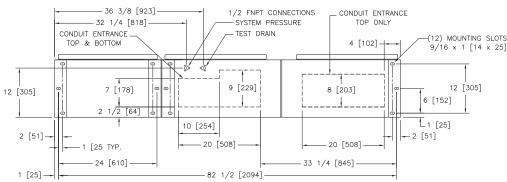


Mark IIxa Electric Fire Pump Controllers

Dimensions and Shipping Weight

FTA1500 / FTA950
Primary Resistor Starting
With Power Transfer Switch





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

LINE VOLTAGE	MOTOR HORSEPOWER				
200	O				
208	□ 125				
220-240	□ 125				
380-415	□ 125-200				
440-480	□ 200-250				
550-600	□ 200-300				

APPROXIMATE SHIPPING WEIGHT 765 [347] DO NOT INSTALL IN AMBIENT TEMPERATURES BELOW 41°F [5°C].

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

THIS DIMENSION DRAWING COVERS FTA1500 CONTROLLERS AT THE HORSEPOWER, VOLTAGE AND WITHSTAND RATINGS AS LISTED IN THE TABLE. FOR OTHER HORSEPOWER OR WITHSTAND RATINGS, REFER TO ED1500-02

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



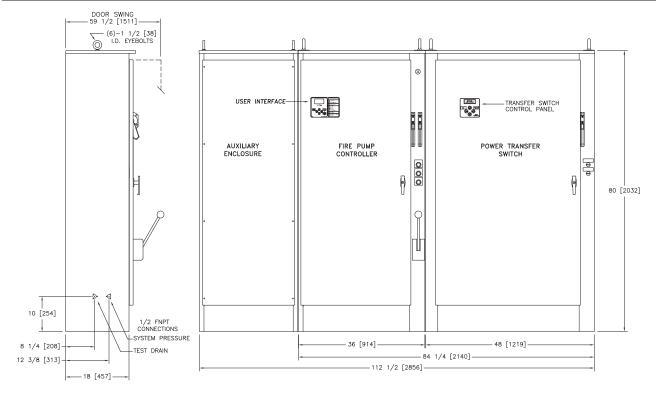
UPDATED TITLE BLOCK		D	281057	JMW	TEF	10-02-19
REVISED MOTOR HORSEPOWER CHART		С	237408	JMW	TEF	06-04-12
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
DIMENSIONS AND SHIPPING WEIGHT	FTA1500 WITH FTA950	DRAWING	NUMBER 500-6	1		
DDIMARY DEGICTOR FIRE DUMP CONT	DOLLED	וטטו	300-0	+		
PRIMARY RESISTOR FIRE PUMP CONT WITH POWER TRANSFER SWITCH	KULLEK	DWG D	ECN 28	1057	SI	HEET 1 OF 1

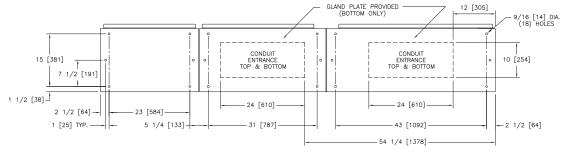


Mark IIxe Electric Fire Pump Controllers

Dimensions and Shipping Weight

FTA1500 / FTA950
Primary Resistor Starting
With Power Transfer Switch





APPROXIMATE SHIPPING WEIGHT

1875 [850]

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

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

HIGH
WITHSTAND RATINGS
200-600V
200,000 Amps RMS Sym.

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
200	□ 125-200	□ 250
208	□ 150-200	□ 250
220-240	□ 150-250	□ 300
380-415	□ 250-350	□ 400-500
440-480	□ 300-500	□ 600
550-600		

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

ALL DIMENSIONS - INCHES [MM]

SHIPPING WEIGHT - POUNDS [KG]

THIS DIMENSION DRAWING COVERS FTA1500 CONTROLLERS AT THE HORSEPOWER, VOLTAGE AND WITHSTAND RATINGS AS LISTED IN THE TABLE. FOR OTHER HORSEPOWER OR WITHSTAND RATINGS, REFER TO ED1500-02

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



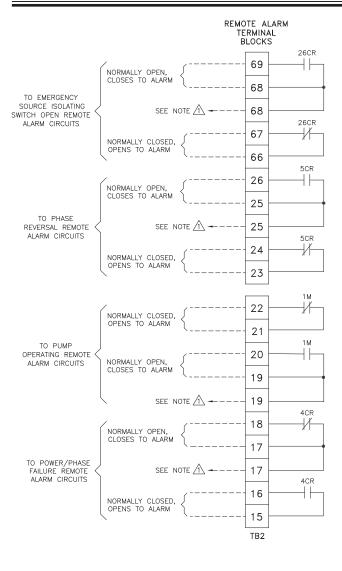
UPDATED TITLE BLOCK		Е	281057	JMW	TEF	10-02-19
REVISED MOTOR HORSEPOWER CHART		D	237408	JMW	TEF	06-04-12
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
DIMENSIONS AND SHIPPING WEIGHT	FTA1500 WITH FTA950	DRAWING NUMBER DD1500-66				
DDILLADY DEGICTOR FIRE DULL OCULT	011 EB	וטטו	300-0)		
PRIMARY RESISTOR FIRE PUMP CONTR WITH POWER TRANSFER SWITCH	ROLLER	DWG E	ECN 28	1057	SH	HEET 1 OF 1



Mark IIxG Electric Fire Pump Controllers

Field Connections FTA1500 / FTA950

Primary Resistor Starting With Power Transfer Switch



A-PHASE INCOMING LINES GROUNDING & GROUNDING LUGS

L1 L2 L3 GROUNDING LUGS

ISOLATING SWITCH GND

MOTOR CONTACTOR

T1 T2 T3

MOTOR

MOTOR

NOTES

- I- 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 FC1500-51

NOTE: USE COPPER CONDUCTORS ONLY FOR ALL CONNECTIONS

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

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

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

TB1 Ν 6 8 10 TO REMOTE START (IF USED) DELUGE VALVE (IF USED) SHUTDOWN INTERLOCK (IF USED) TO REMOTE ALARM PANEL (IF USED) NORMALLY JUMPER OPEN 120 VAC. 100VA MAX. LOAD FROM CLOSES TO 1 TO 8 SHUTDOWN

CONTROL

TERMINAL BLOCKS

PRESSURE SYSTEM
CONNECTION
1/2" FNPT

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

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



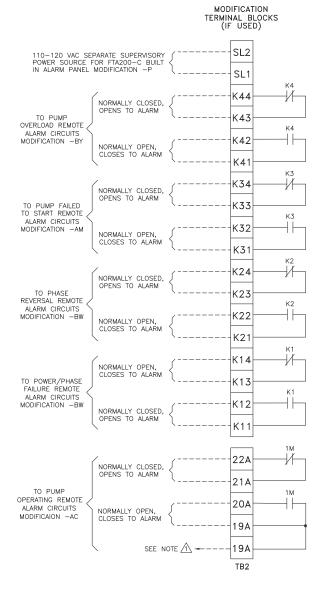
	UPDATED TITLE BLOCK		В	281057	JMW	TEF	10-02-19
	ADD NOTE FOR COPPER CONDUCTORS ONLY, UPDATED LOGO & TITLE BLOCK		А	226253	JC	TEF	12-09-09
	REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
	FIELD CONNECTIONS	FTA1500 WITH FTA900, FTA950	DRAWING	NUMBER 500-5	-		
ı	DDIMARY DEGICTOR FIRE DUMP CONT.	DOLLED	FC1	300-3	,		
	PRIMARY RESISTOR FIRE PUMP CONTI WITH POWER TRANSFER SWITCH	ROLLER	DWG B	ECN 28	1057	s	HEET 1 OF 2



Mark IIxg Electric Fire Pump Controllers

Field Connections FTA1500 / FTA950

Primary Resistor Starting With Power Transfer Switch



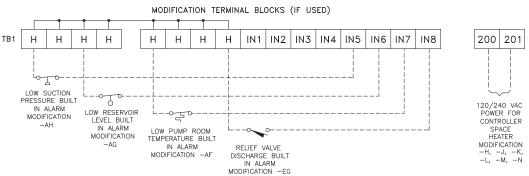
SPARE TERMINALS PROVIDED FOR PARALLEL CONNECTION OF REMOTE ALARMS (IF REQUIRED)

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	281057	JMW	TEF	10-02-19	
ADD NOTE FOR COPPER CO	ADD NOTE FOR COPPER CONDUCTORS ONLY, UPDATED LOGO & TITLE BLOC				TEF	12-09-09	
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE	
FIELD CONNECTIONS	FTA1500 WITH FTA900, FTA950	DRAWING NUMBER					
DDIMARY DEGICTOR FIR	DDIMARY RECICTOR FIRE DUMP CONTROLLER			FC1500-55			
ristruction.		DWG B CN 281057 SHE			HEET 2 OF 2		
01	ADD NOTE FOR COPPER COREVISION DESCRIPTION FIELD CONNECTIONS PRIMARY RESISTOR FIRE	ADD NOTE FOR COPPER CONDUCTORS ONLY, UPDATED LOGO & TITLE BLOCK REVISION DESCRIPTION FIELD CONNECTIONS FTA1500 WITH FTA900, FTA950 PRIMARY RESISTOR FIRE PUMP CONTROLLER	ADD NOTE FOR COPPER CONDUCTORS ONLY, UPDATED LOGO & TITLE BLOCK REVISION DESCRIPTION FIELD CONNECTIONS FTA1500 WITH FTA900, FTA950 PRIMARY RESISTOR FIRE PUMP CONTROLLER FC15	ADD NOTE FOR COPPER CONDUCTORS ONLY, UPDATED LOGO & TITLE BLOCK REVISION DESCRIPTION FIELD CONNECTIONS FTA1500 WITH FTA900, FTA950 PRIMARY RESISTOR FIRE PUMP CONTROLLER FC1500-55	ADD NOTE FOR COPPER CONDUCTORS ONLY, UPDATED LOGO & TITLE BLOCK REVISION DESCRIPTION FIELD CONNECTIONS FTA1500 WITH FTA900, FTA950 PRIMARY RESISTOR FIRE PUMP CONTROLLER FC1500-55	ADD NOTE FOR COPPER CONDUCTORS ONLY, UPDATED LOGO & TITLE BLOCK REVISION DESCRIPTION FIELD CONNECTIONS FTA1500 WITH FTA900, FTA950 PRIMARY RESISTOR FIRE PUMP CONTROLLER FC1500-55	



Field Connections FTA1500

Primary Resistor Starting Line & Motor Wire Terminal Capacity

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

			0111 71110				
200V	MAXI 208V	MUM MOTOR	WIRE SIZE (CU) PER PHASE	WIRE SIZE SERVICE ENTRANCE GROUND LUG (CU)			
25	25	30	50	60	75	(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
30	30	40	60	75	100	(1) #2 AWG-#4/0 AWG (1) 35 MM ² -100 MM ²	(2) #14 AWG-#2/0 AWG (2) 2.5 MM ² -70 MM ²
50	50	60	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	75	75	125	150	200	(1) #6 AWG-350 kcmil (1) 16 MM ² -185 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		350	(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
250	250	250	400	500	700	(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
		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) $\langle 1 \rangle$

	MAX	WIRE SIZE (CU)				
200V	208V	220-240V	380-415V	440-480V	550-600V	PER PHASE
30	30	40	60	75	100	(1) #6 AWG-#2/0 AWG (1) 16 MM ² -70 MM ²
50	50	60	75	125	150	(1) #6 AWG-250 kcmil (1) 16 MM ² -120 MM ²
75	75	100	150	200	250	(1) #4 AWG-400 kcmil (1) 25 MM ² -200 MM ²
100	100			250	300	(2) #4 AWG-500 kcmil (2) 25 MM ² -240 MM ²
200	200	200	350	500	600	(2) 250 kcmil-500 kcmil (2) 120 MM ² -240 MM ²
250	250	300	500	600	700	(3) #2/0 AWG-500 kcmil (3) 70 MM ² -240 MM ²

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

WHEN REQUIRED BY AUTHORITY HAVING JURISDICTION.

			UPDATED LOGO AND TITLE BLOCK		Α	226994	l lc	TEF	12-09-09				
Γ		SIZE A	BY	DATE		REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE	
	THIRD ANGLE PROJECTION FII	DRAWN BY	WNBY TEF 05-06-02 FFiretrol, Inc	Firetrol, Inc.	FIELD CONNECTIONS	FTA1500	DRAWING NUMBER FC1500-51						
			12.			PRIMARY RESISTOR FIRE PUMP CONTROLLER			FC1300 - 31				
		FINAL APPROVAL	TEF	05-06-02	© Firetrol, Inc. Not for construction. Subject to change without notice.	LINE AND MOTOR FIELD WIRE TERMINA		DWG B	ECN 28	1057	SH	HEET 1 OF 1	
_	All rights reserved. The	e drawing and the in	nformation co	ntained or depicted	nerein are the sole property of Firetrol, Inc. Copies are communicated to the re	cipient in strict confidence and may not be retransmitted, published, reproduced, cop	ied or used in any manor, including as the basis for the manufacture or	sale of any produc	ts, without the exc	ress prior	written con	sent of Firetrol, Inc.	

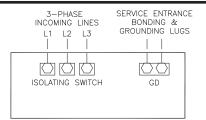


UPDATED TITLE BLOCK	В	281057	JMW	TEF	10-02-19		
UPDATED LOGO AND TITLE BLOCK	Α	226994	JC	TEF	12-09-09		
REVISION DESCRIPTION	REV	ECN NO	BY	APP	DATE		
FIELD CONNECTIONS	DRAWING NUMBER FC1500-51						
DDILLAR DV DEGIGEOR FIDE DULLAR GOLIT	POLLED	FC1300 - 31					
PRIMARY RESISTOR FIRE PUMP CONT LINE AND MOTOR FIELD WIRE TERMIN	DWG B	ECN 28	1057	s	SHEET 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.

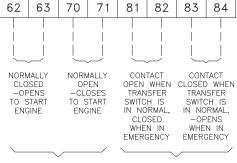
-USE COPPER CONDUCTORS ONLY-

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

LINE IEKI	LINE TERMINALS-WIRE CAPACITY AND QUANTITY (CO)												
	MAXIMUM MOTOR HORSEPOWER 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.	
© Firetrol, Inc. Not for construction.	

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	DATOR	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			

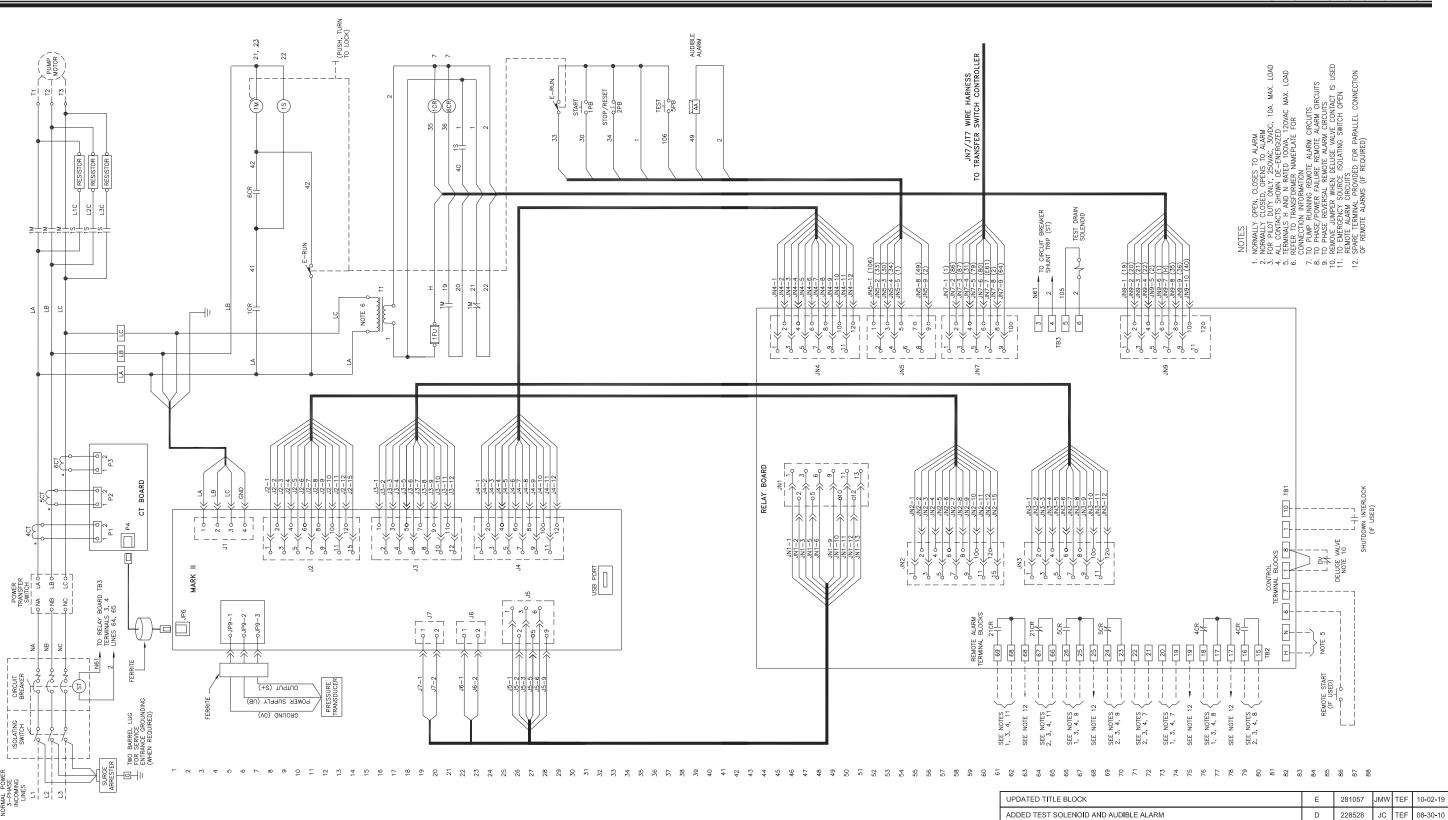
RAWING NUMBER

WS1500-55

DWG E ECN 281057

FTA1500 WITH FTA950

Mark IIxa Electric Fire Pump Controllers



THIRD ANGLE PROJECTION

REVISION DESCRIPTION

WIRING SCHEMATIC

PRIMARY RESISTOR FIRE PUMP CONTROLLER

WITH POWER TRANSFER SWITCH

F Firetrol, Inc.

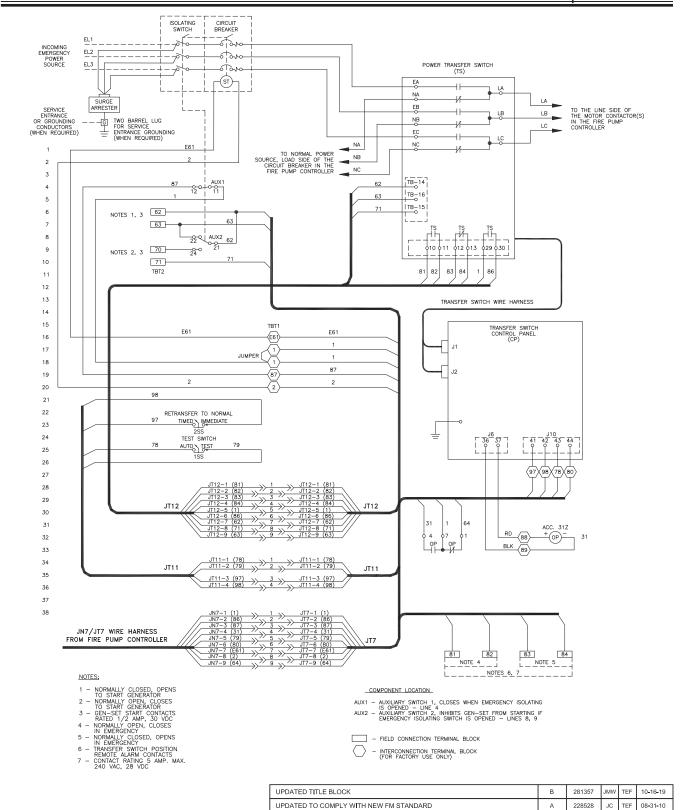
Subject to change without notice.

07-18-02



Wiring Schematic FTA950

Assembled With Electric Fire Pump Controllers



	SIZE A	BY	DATE		REVISION DESCRIPTION		REV	ECN NO	BY	APP D	DATE
		TEF	05-25-10	Firetrol, Inc.	WIRING SCHEMATIC	FTA950	DRAWING	NUMBER 150-55			
THIRD ANGLE PROJECTION	FINAL			© Firetrol, Inc. Not for construction.	FIRE PUMP POWER TRANSFER SWITCH	H FOR GEN-SET		1		1	—
	APPROVAL	NAL TEE 105-25-10		Subject to change without notice.	AND SECOND UTILITY POWER SOURCE		DWG REV B NO 281357		1357	SHEET	1 OF 1