

(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



Mark<sup>III</sup> Electric Fire Pump Controllers - Wye-Delta Closed Transition Starting

## **UNITS WITHOUT POWER TRANSFER SWITCH**

	SHORT-CIR	CUIT (WITHST (See Char		T RATING
DWG NO	DD1350-70	DD1350-71	DD1350-72	DD1350-73
LINE VOLTAGE	HP RANGE	HP RANGE	HP RANGE	HP RANGE
208	5-30	40-60	75-150	200
220-240	5-30	40-75	100-200	250
380-400-415	5-60	75-125	150-300	350-450
440-480	5-60	200-450	500	
600	5-75	100-200	250-500	N/A

## **UNITS WITH POWER TRANSFER SWITCH**

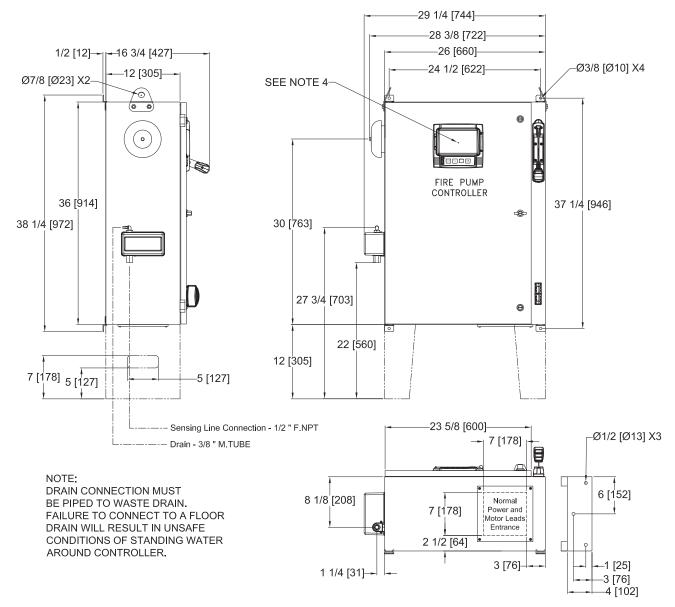
	SHO	ORT-CIRCUIT (\ (S	WITHSTAND) C see Chart Below		NG
DWG NO	DD1350-80	DD1350-80 DD1350-81 DD1350-82			DD1350-84
LINE VOLTAGE	HP RANGE	HP RANGE	HP RANGE	HP RANGE	HP RANGE
208	5-30	40-60	75-100	125-150	200
220-240	5-30	40-75	100-125	150-200	250
380-400-415	5-60	75-125	150-200	250-300	350-450
440-480	5-60	75-150	200-250	300-400	450-500
600	5-75	100-200	250-350	400-500	N/A

	MA	ARK III SCO	CR SELECT	ION FTA10	000, 1250, 1	1300, 1350,	1800, 1930	)	
SCCR CODE	200-208V 5-150HP			380-415V 400-500HP	440-480V 450-500HP				
M Standard	100kA	100kA	100kA	100kA	N/A	50kA	50kA	50kA	50kA
N Intermediate	150kA	150kA	150kA	150kA	N/A	N/A	N/A	N/A	N/A
P High	200kA	200kA	200kA	200kA	N/A	100kA	100kA	100kA	100kA
Q Intermediate	N/A	N/A	N/A	N/A	100kA	N/A	N/A	N/A	N/A
R Standard	N/A	N/A	N/A	N/A	50kA	N/A	N/A	N/A	N/A

# Consult Factory for Voltages or Horsepowers Not Shown

						REVISED VOLTAGE/POWER CHART			-	JMW	CIR	1-21-21	
		SIZE A	BY	DATE		REVISION DESCRIPTION			ECN NO	BY	APP	DATE	
	DRAWN BY JMW 12-16-19		Firetrol, Inc.	LOOKUP TABLE	FTA1350	DRAWING NUMBER ED1350-10							
- 1	THIRD ANGLE PROJECTION		•			DIMENSIONAL DRAWING LOOKUP TABLE, CLOSED TRANSITION WYE-DELTA			ED1330-10				
	PROJECTION	FINAL APPROVAL	CIR	12-16-19	© Filetioi, ilic. Not for construction.	FIRE PUMP CONTROLLERS WITH HP/V		DWG B	ECN -		SI	HEET 1 OF 1	





VOLTAG	E/POWER TABLE						
LINE VOLTAGE	MOTOR HORSEPOWER						
208	5-30						
220-240	5-30						
380-400-415	5-60						
440-480	5-60						
600	5-75						
APPROX SHIPPING WT: 230 [104]							

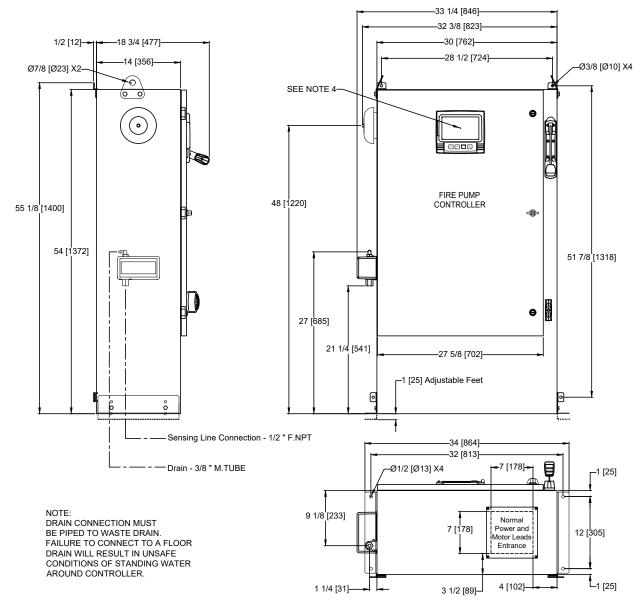
- NOTES:

  1. STANDARD: NEMA 2
  2. STANDARD PAINT: TEXTURED RED RAL3002
  3. ALL DIMENSIONS IN INCHES [MILLIMETERS]
  SHIPPING WEIGHT IN POUNDS [KG]
  4. CENTER OF MARK III SCREEN: 29 5/8 [751] FROM
  BOTTOM OF ENCLOSURE (NO FEET)
  5. BOTTOM CONDUIT ENTRANCE THROUGH
  REMOVABLE GLAND PLATE RECOMMENDED

- 6. USE WATERTIGHT CONDUIT AND CONNECTOR ONLY 7. PROTECT EQUIPMENT AGAINST DRILLING CHIPS
- DOOR SWING EQUAL TO DOOR WIDTH
   DRAWINGS FOR CONSTRUCTION PURPOSES
- MUST BE OBTAINED FROM FIRETROL OR THE LOCAL FIRETROL REPRESENTATIVE
- 10. SEISMIC MOUNTING TO BE RIGID WALL AND BASE ONLY

					RELEASED		-	-	CIR	CIR	11-5-19
	SIZE A	BY	DATE		REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
	DRAWN BY CIR 11-5-19 Firet		<b>Firetrol, Inc.</b>	DIMENSIONS & SHIPPING WEIGHT	FTA1350	DRAWING NUMBER					
THIRD ANGLE		CIR	11-5-19		CLOSED TRANSITION WYE DELTA FIRE PUMP CONTROLLER			DD1350 <b>-</b> 70		CD	
PROJECTION	FINAL APPROVAL	CIR	11-5-19	© Firetrol, Inc. Not for construction. Subject to change without notice.				ECN -		s⊦	HEET 1 OF 1
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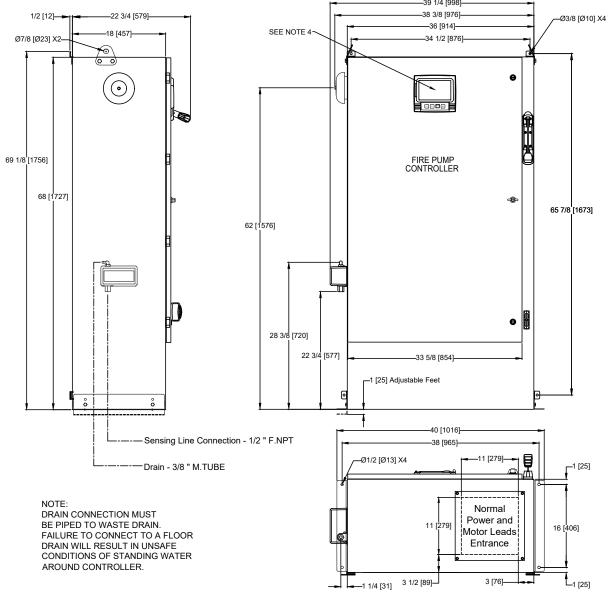
VOLTAG	VOLTAGE/POWER TABLE								
LINE VOLTAGE	MOTOR HORSEPOWER								
208	40-60								
220-240	40-75								
380-400-415	75-125								
440-480	75-150								
600	100-200								
APPROX SHI	PPING WEIGHT: 350 [159]								

### NOTES:

- 1. STANDARD: NEMA 2
- 2. STANDARD PAINT: TEXTURED RED RAL3002
- 3. ALL DIMENSIONS IN INCHES [MILLIMETERS] SHIPPING WEIGHT IN POUNDS [KG]
- 4. CENTER OF MARK III SCREEN: 47 5/8 [1208] FROM BOTTOM OF ENCLOSURE
- 5. BOTTOM CONDUIT ENTRANCE THROUGH REMOVABLE GLAND PLATE RECOMMENDED
- 6. USE WATERTIGHT CONDUIT AND CONNECTOR ONLY 7. PROTECT EQUIPMENT AGAINST DRILLING CHIPS
- 8. DOOR SWING EQUAL TO DOOR WIDTH
- 9. DRAWINGS FOR CONSTRUCTION PURPOSES MUST BE OBTAINED FROM FIRETROL OR THE LOCAL FIRETROL REPRESENTATIVE
- 10. SEISMIC MOUNTING TO BE RIGID WALL AND BASE ONLY

					REVISED VOLTAGE/HP CHART		Α	-	CIR	CIR	1-21-21	
	SIZE A	BY	DATE		REVISION DESCRIPTION			ECN NO	BY	APP	DATE	
	DRAWN BY	CIR	R 11-5-19	<b>F</b> Firetrol, Inc.	Firetrol, Inc. DIMENSIONS & SHIPPING WEIGHT FTA1350	FTA1350		DD1350-71			CDL	
THIRD ANGLE PROJECTION		0			CLOSED TRANSITION WYE DELTA FIRE PUMP CONTROLLER			7 101330-71				
TROSECTION	FINAL APPROVAL CIR 11-5-19		11-5-19	© Firetrol, Inc. Not for construction. Subject to change without notice.	SEGGED HANGHON WIE BEETAT INC FORM CONTROLLER			ECN NO -		SH	HEET 1 OF 1	



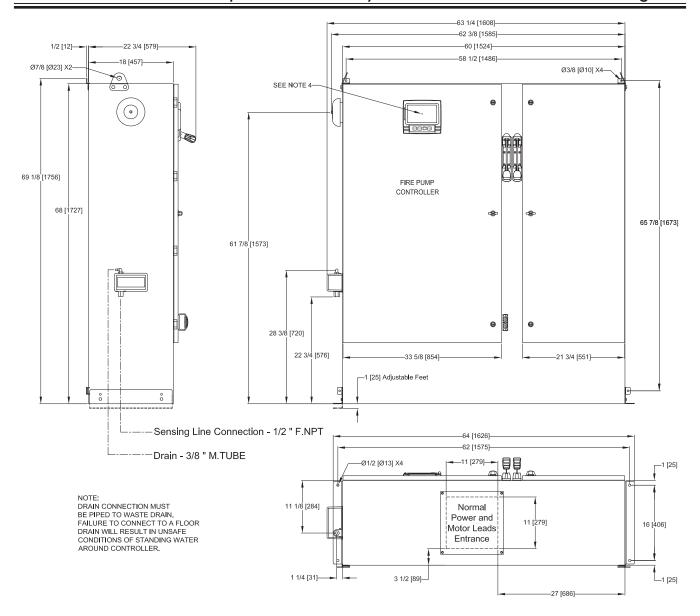


VOLTAGE/POWER TABLE								
LINE VOLTAGE	MOTOR HORSEPOWER							
208	75-150							
220-240	100-200							
380-400-415	150-300							
440-480	200-450							
600	250-500							
APPROX SHII	APPROX SHIPPING WEIGHT: 765 [347]							

- STANDARD: NEMA 2
   STANDARD PAINT: TEXTURED RED RAL3002
- 3. ALL DIMENSIONS IN INCHES [MILLIMETERS] SHIPPING WEIGHT IN POUNDS [KG]
- 4. CENTER OF MARK III SCREEN: 61 5/8 [1564] FROM **BOTTOM OF ENCLOSURE**
- 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
- DRAWINGS FOR CONSTRUCTION PURPOSES MUST BE OBTAINED FROM FIRETROL OR THE LOCAL FIRETROL REPRESENTATIVE
- 10. SEISMIC MOUNTING TO BE RIGID WALL AND BASE ONLY

					REVISED VOLTAGE/POWER CHART		В	-	CIR	CIR	1-21-21
	SIZE A BY DATE				REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
DRAWN BY CIR 11-5-19		<b>Firetrol, Inc.</b>	DIMENSIONS & SHIPPING WEIGHT	FTA1350	DRAWING NUMBER DD1350-72						
THIRD ANGLE		•	5111		CLOCED TRANSITION MAYE BELTA FIRE DUMP CONTROLLED			DD1350-72			
PROJECTION	ON FINAL APPROVAL CIR 11-5-19 © Firetrol, Inc. Not for construction. Subject to change without notice.		CLOSED TRANSITION WYE DELTA FIRE PUMP CONTROLLER		DWG A	ECN NO -		SH	HEET 1 OF 1		



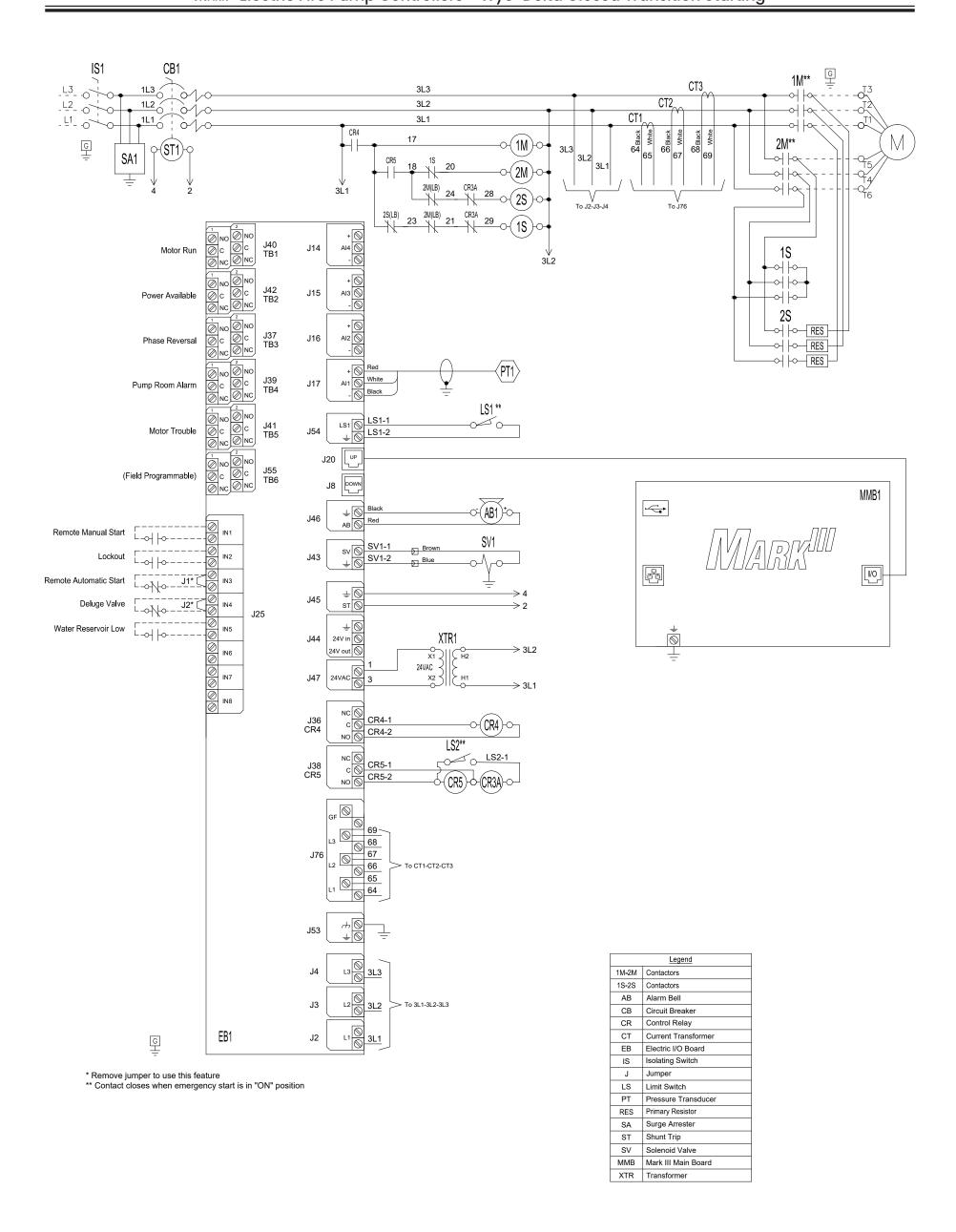


VOLTAG	E/POWER TABLE								
LINE	MOTOR								
VOLTAGE	HORSEPOWER								
208	200								
220-240	250								
380-400-415	350-450								
440-480	500								
600	NA								
APPROX S	APPROX SHIPPING WT: 850 [386]								

### NOTES:

- 1. STANDARD: NEMA 2
- 2. STANDARD PAINT: TEXTURED RED RAL3002
- 3. ALL DIMENSIONS IN INCHES [MILLIMETERS] SHIPPING WEIGHT IN POUNDS [KG]
- 4. CENTER OF MARK III SCREEN: 61 5/8 [1564] FROM BOTTOM OF ENCLOSURE
- 5. BOTTOM CONDUIT ENTRANCE THROUGH REMOVABLE GLAND PLATE RECOMMENDED
- 6. USE WATERTIGHT CONDUIT AND CONNECTOR ONLY
- 7. PROTECT EQUIPMENT AGAINST DRILLING CHIPS
- 8. DOOR SWING EQUAL TO DOOR WIDTH
- DRAWINGS FOR CONSTRUCTION PURPOSES
   MUST BE OBTAINED FROM FIRETROL OR THE LOCAL
   FIRETROL REPRESENTATIVE
- 10. SEISMIC MOUNTING TO BE RIGID WALL AND BASE ONLY

					REVISED VOLTAGE/POWER CHART		Α	-	CIR	CIR	5-12-20
	SIZE A BY	BY	DATE		REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
$\rightarrow \oplus$	DRAWN BY	CIR	11-5-19	F Firetrol, Inc.	DIMENSIONS & SHIPPING WEIGHT	FTA1350	DRAWING NUMBER				
THIRD ANGLE		CIR			OLOGED TRANSITION MAYE BELTA FIRE BUMB CONTROLLED			DD1350-73			
PROJECTION FI	FINAL APPROVAL	CIR	11-5-19	© Firetrol, Inc. Not for construction. Subject to change without notice.	CLOSED TRANSITION WYE DELTA FIRE PUMP CONTROLLER			ECN - NO -		SH	HEET 1 OF 1
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Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

Contact manufacturer for "As Built" drawing.



# Field Connections Alarm & Control Terminals



# MARKIII Electric Fire Pump Controllers - Wye-Delta Closed Transition Starting

### Control Terminals (EB1) Remote Alarm Terminals (EB1) Terminals Wire Size: 24 - 12 AWG 0.5 Nm Terminals Wire Size: 24 - 12 AWG 0.5 Nm Normally open Closes to alarm Normally closed Opens to alarm Close to start pump Remote Manual Start Motor Run Normally open Closes to alarm Normally closed Opens to alarm Normally open Closes to alarm Normally closed Opens to alarm Close to block start Lockout Power Avallable Normally open Closes to alarm Normally closed Opens to alarm ' Normally open Normally closed Closes to alarm Opens to alarm ' Open to start pump Remote Automatic Start Phase Reversal Normally open Closes to alarm Normally closed Opens to alarm Normally open Closes to alarm Normally closed Opens to alarm ' Open to start pump Pump Room Alarm \*\* Deluge Valve Normally open Closes to alarm Normally closed Opens to alarm ' Normally open Closes to alarm Normally closed Alarm Inputs (EB1) Opens to alarm ' Motor Trouble \*\* Normally open Terminals Wire Size: 24 - 12 AWG 0.5 Nm Closes to alarm Normally closed Opens to alarm Normally open Closes to alarm Normally closed Opens to alarm ' (Field Programmable \*\*\*) Water Reservoir Low Close to signal alarm Normally open Closes to alarm Normally closed Opens to alarm

### Network Connection (VMB1)

Shielded Female Connector RJ45



<sup>\*</sup> Remove jumper to use this feature

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

Contact manufacturer for "As Bullt" drawing.

						RELEASED		- 1	-	CIR	CIR	11-11-19
ſ		SIZE A	BY	DATE		REVISION DESCRIPTION			ECN NO	BY	APP	DATE
	$\Rightarrow$	DRAWN BY	CIR	11-10-19	<b>Firetrol, Inc.</b>	FIELD CONNECTIONS	FTA1350	DRAWING			CDL	
THIRD ANG PROJECTIO	THIRD ANGLE		0			CLOSED TRANSITION WYE DELTA FIRE PUMP CONTROLLER			FC1350-60			
		FINAL APPROVAL	I CIR   111-10-19	© Firetrol, Inc. Not for construction. Subject to change without notice.	CLOSED TRANSITION WEEDELTA FIRE	POMP CONTROLLER	DWG REV =	ECN -		SH	IEET 1 OF 1	
-	All fabits reserved. The drawho and the Information contained or decided herein are the sole property of Fletrol. Inc. Cooles are communicated to the recibient in stifct confidence and may not be retransmitted, outblished, recorduced, cooled or used in any manor, including as the basis for the manufacture or sale of any onducts, without the express orbit written consent of Fletrol. Inc.											

<sup>\*\*</sup> Re-assignable
\*\*\* Not available on FTA1930 models

# **Field Connections** Line & Motor Wire Terminal Capacity



# MARKIII Electric Fire Pump Controllers - Wye-Delta Closed Transition Starting

### Line Terminals

### 3 Phases Incoming Power YYY TTT囡 000 L1 L2 L3 IS1

- 1 For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.
- Controller suitable for service entrance in USA.
   For more accurate motor connections refer to motor manufacturer or motor nameplate.
- 4 Controller is phase sensitive. Incoming lines must be connected in ABC sequence.

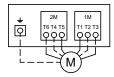
### COPPER CONDUCTORS for Isolating Switch (IS1).

Field Wiring According to Bending Space (AWG or MCM). Terminals L1 - L2 - L3

Bending Space				8 " (203 mm)								
HP Voltage	5	7.5	10	15	20	25	30	40	50	60		
208	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1/0 to 3/0)	1x (3/0 to 250)	1x (4/0 to 250)		
220 to 240	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 3/0) 1x (2/0 to 3/0)		1x (3/0 to 250)		
380 to 416	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (3 to 1/0)		
440 to 480	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)					
600	1x (10 to 1/0)		1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)			

Bending Space		12	" (305 mm)			16 " (406 mm)						
HP Voltage	75	100	125	150	200	250	300	350	400	450	500	
208	2x (1/0 to 500)	2x (2/0 to 500)	2x (4/0 to 500)	2x (250 to 500)	3x (4/0 to 500)							
220 to 240	1x (250)	2x (2/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (350 to 500)	3x (250 to 500)						
380 to 416	1x (1/0 to 3/0)	1/0 to 3/0) 1x (3/0 to 250) 1x (250) 2x (1/0 to 500)		2x (1/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (400 to 500)	3x (250 to 500)	3x (300 to 500)		
440 to 480	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0 to 250)	1x (4/0 to 250)	2x (1/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (350 to 500)	2x (400 to 500)	3x (250 to 500)	
600	1x (3 to 1/0)	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0 to 250)	1x (250)	2x (2/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	4/0 to 500) 2x (250 to 500) 2x (300 to 500		2x (350 to 500)	
Bending Space	5 " (127 mm) 8 " (203 mm)					12 " (305 mm)						

### **Motor Terminals**



### COPPER CONDUCTORS for Motor Connection (1M-2M).

Field Wiring According to Bending Space (AWG or MCM). Terminals T1-T2-T3-T4-T5-T6-T7-T8-T9

		, ,		,						
HP Voltage	5	7.5	10	15	20	25	30	40	50	60
208	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	1x (6 to 4)	1x (4 to 2/0)	1x (2 to 2/0)	1x (1 to 2/0)
220 to 240	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	1x (6 to 4)	1x (4)	1x (3 to 2/0)	1x (2 to 2/0)
380 to 416	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	1x (4)
440 to 480	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)
600	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)
HP Voltage	75	100	125	150	200	250	300	350	400	450
208 1x (2/0 to 3/0)		1x (3/0 to 300)	1x (250 to 300)	2x (1/0 to 300)	2x (3/0 to 350)					

HP Voltage	75	100	125	150	200	250	300	350	400	450	500	
208	1x (2/0 to 3/0)	1x (3/0 to 300)	1x (250 to 300) 2x (1/0 to 300) 2		2x (3/0 to 350)							
220 to 240	1x (1/0 to 2/0)	1x (3/0)	1x (4/0 to 300)	1x (300)	2x (2/0 to 300)	2x (4/0 to 350)						
380 to 416	1x (4 to 2/0)	1x (2 to 2/0)	1x (1/0 to 2/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 350)	2x (4/0 to 350)		
440 to 480	1x (4 to 2/0)	1x (3 to 2/0)	1x (2 to 2/0)	1x (1/0 to 3/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (300)	2x (1/0 to 300)	2x (2/0 to 300)	2x (3/0 to 350)	2x (4/0 to 350)	
600	1x (6 to 4)	1x (4)	1x (3 to 2/0)	1x (2 to 2/0)	1x (1/0 to 3/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (250 to 300)	1x (300)	2x (1/0 to 300)	2x (2/0 to 300)	

	SIZE A	BY	DATE
THIRD ANGLE	DRAWN BY	CIR	11-10-19
PROJECTION	FINAL APPROVAL	CIR	11-10-19

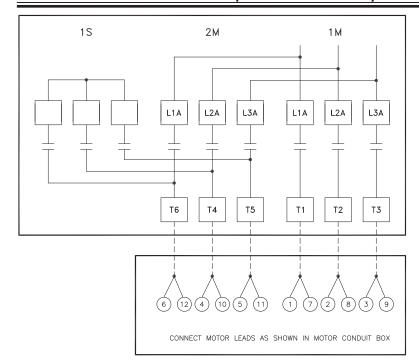


RELEASED	-	-	CIR	CIR	11-11-19		
REVISION DESCRIPTION	REV	ECN NO	BY	APP	DATE		
FIELD CONNECTIONS	DRAWING N	NUMBER 350-61	1				
OLOGED TRANSITION MAYE DELTA FIDE	DUMP CONTROLLED	LCI	550-0	I	CDL		
CLOSED TRANSITION WYE DELTA FIRE	DWG A	ECN					
LINE AND MOTOR FIELD WIRE TERMINA	REV A	NO -		SF	HEET 1 OF 1		

# Typical Motor Connection Diagram



# Mark<sup>™</sup> Electric Fire Pump Controllers - Wye-Delta Starting (12-Lead Motors)



FOR SINGLE VOLTAGE 12-LEAD WYE-DELTA MOTORS

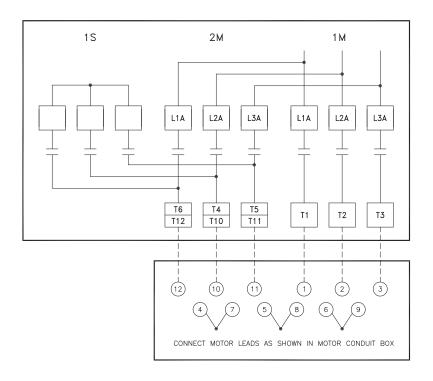
- OR -

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.
- TWELVE (12) LEAD PART WINDING MOTORS CANNOT BE USED FOR WYE-DELTA STARTING AT 240/230V.

B 280820 JMW TEF 09-12-19

									1 1		
					ADDED SINGLE VOLTAGE, 12 LEAD, Y-D MOTORS			-	TEF	TEF	11-22-00
	DRAWN BT	BY	DATE	F Firetrol, Inc.	REVISION DESCRIPTION			ECN NO	BY	APP	DATE
					MOTOR CONNECTIONS	FTA1300 / FTA1350	DRAWING	NUMBER			
THIRD ANGLE		JMW	09-12-95	/ II II GUUI, IIIG.	INC FOR CONTRECTIONS	1 171100071 1711000	⊣ NS1300-01				
				J —	ODENICI OSED TRANSITION WAS DELT	A FIDE DUMP CONTROLLEDS	.,,	200 01			
PROJECTION	FINAL APPROVAL	TEF	09-12-95	© Firetrol, Inc. Not for construction. Subject to change without notice.	OPEN/CLOSED TRANSITION WYE-DELTA FIRE PUMP CONTROLLERS			WG B ECN 280820		SH	HEET 1 OF 1
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