

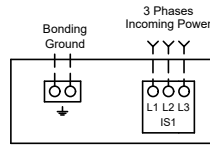
Field Connections Line & Motor Wire Terminal Capacity



FTA1300

MARK^{III+} Electric Fire Pump Controllers - Wye-Delta Open Transition Starting

Line Terminals



Notes:

- 1 - For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.
- 2 - Controller suitable for service entrance in USA.
- 3 - 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.

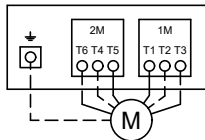
COPPER CONDUCTORS for Isolating Switch (IS1).

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

| Bending Space | 5" (127 mm) | | | | | | | 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 (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) |
| 600 | 1x (10 to 1/0) | 1x (10 to 1/0) | 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) | 1x (3/0 to 250) | 1x (250) | 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) | 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 | 500 |
|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 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) | ----- | ----- | ----- | ----- | ----- | ----- |
| 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 |
| | DRAWN BY | CIR | 11-10-19 | |
| | FINAL APPROVAL | CIR | 11-10-19 | |



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|--|--|---------|--------|----------------|-----|--------------|
| REVISED TO AGREE W/CURRENT MANUFACTURING | | A | - | CIR | CIR | 1-19-21 |
| REVISION DESCRIPTION | | REV | ECN NO | BY | APP | DATE |
| FIELD CONNECTIONS | | FTA1300 | | DRAWING NUMBER | | |
| OPEN TRANSITION WYE DELTA FIRE PUMP CONTROLLER | | | | FC1300-61 | | |
| LINE AND MOTOR FIELD WIRE TERMINAL CAPACITY | | DWG REV | A | ECN NO | - | SHEET 1 OF 1 |