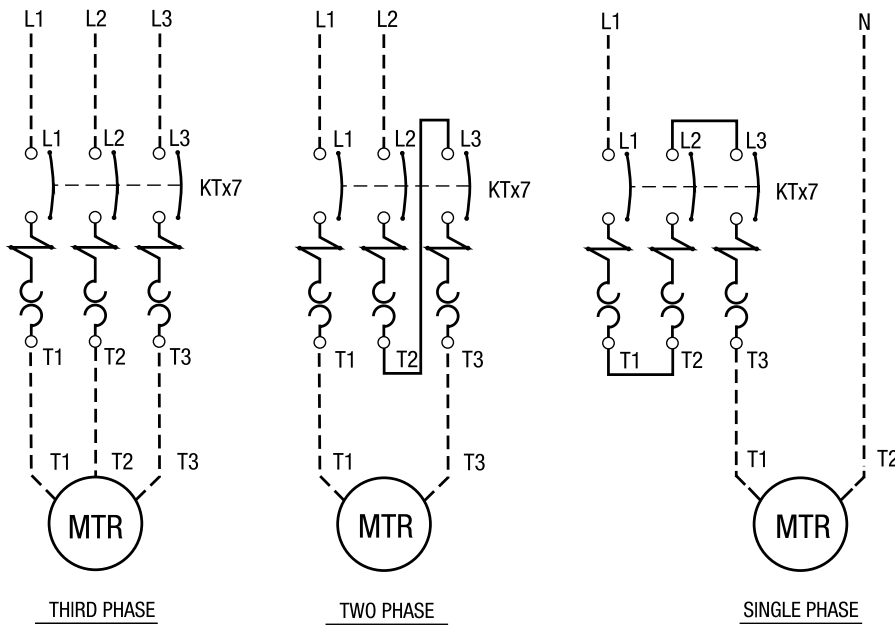
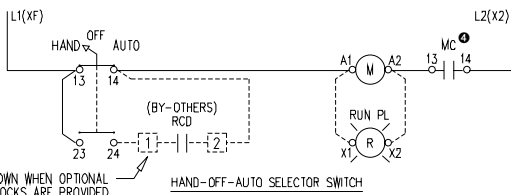
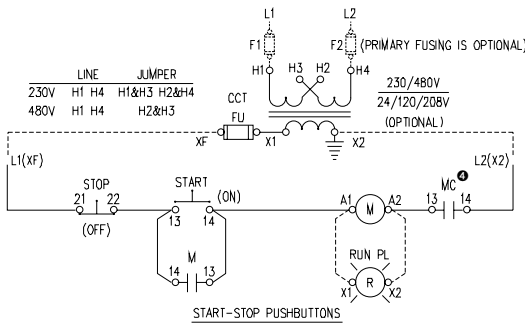


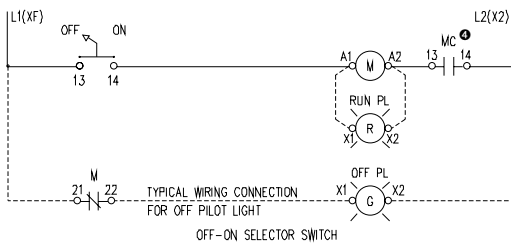
**Single, Two and Three Phase Connection Diagram**



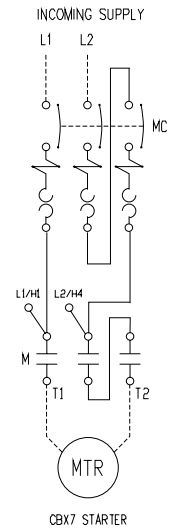
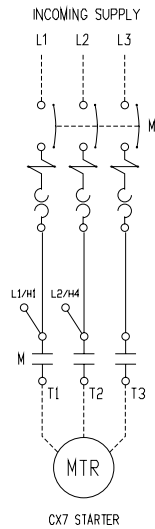
**Type E/F Combination Controller Full Voltage Non-Reversing  
AC Control with D7 Series Pilot Devices**



WIRE AS SHOWN WHEN OPTIONAL TERMINAL BLOCKS ARE PROVIDED



TYPICAL WIRING CONNECTION FOR OFF PILOT LIGHT

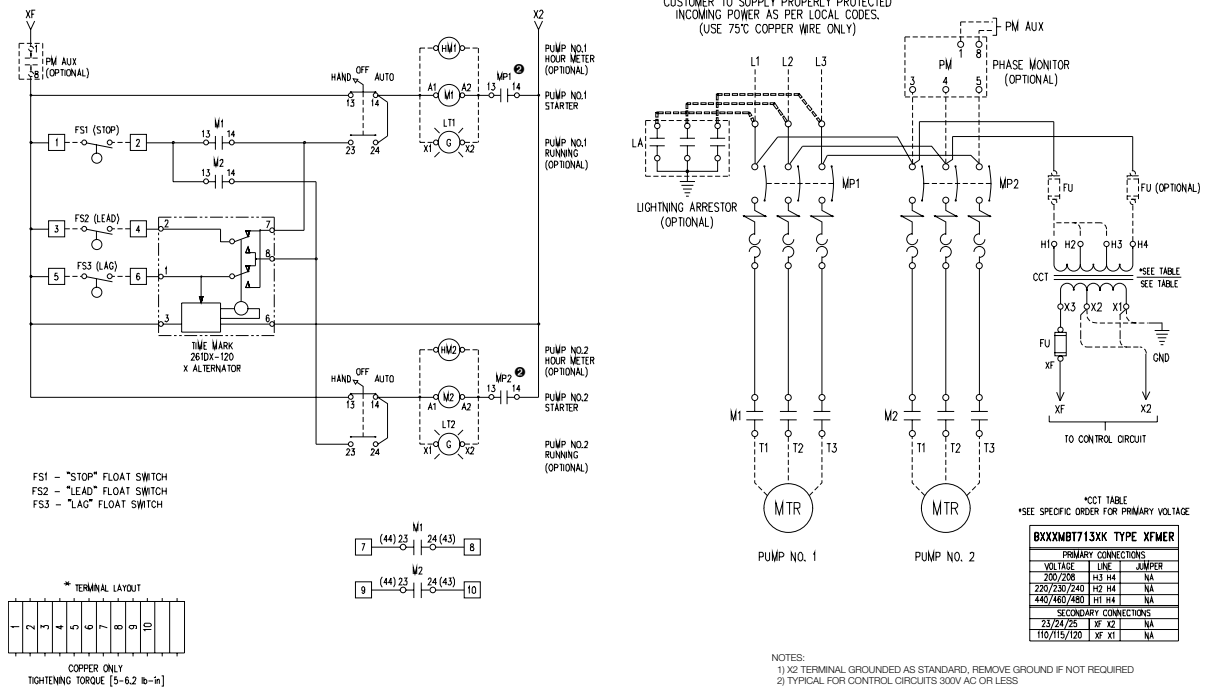


- NOTES:
- 1) RCD: STANDS FOR REMOTE CONTROL DEVICE BY CUSTOMER
  - 2) MC: KT9 TYPE E MOTOR CONTROLLER
  - 3) X2 TERMINAL GROUNDED AS STANDARD, REMOVE GROUND IF NOT REQUIRED
  - 4) TYPICAL FOR CONTROL CIRCUITS 300V AC OR LESS

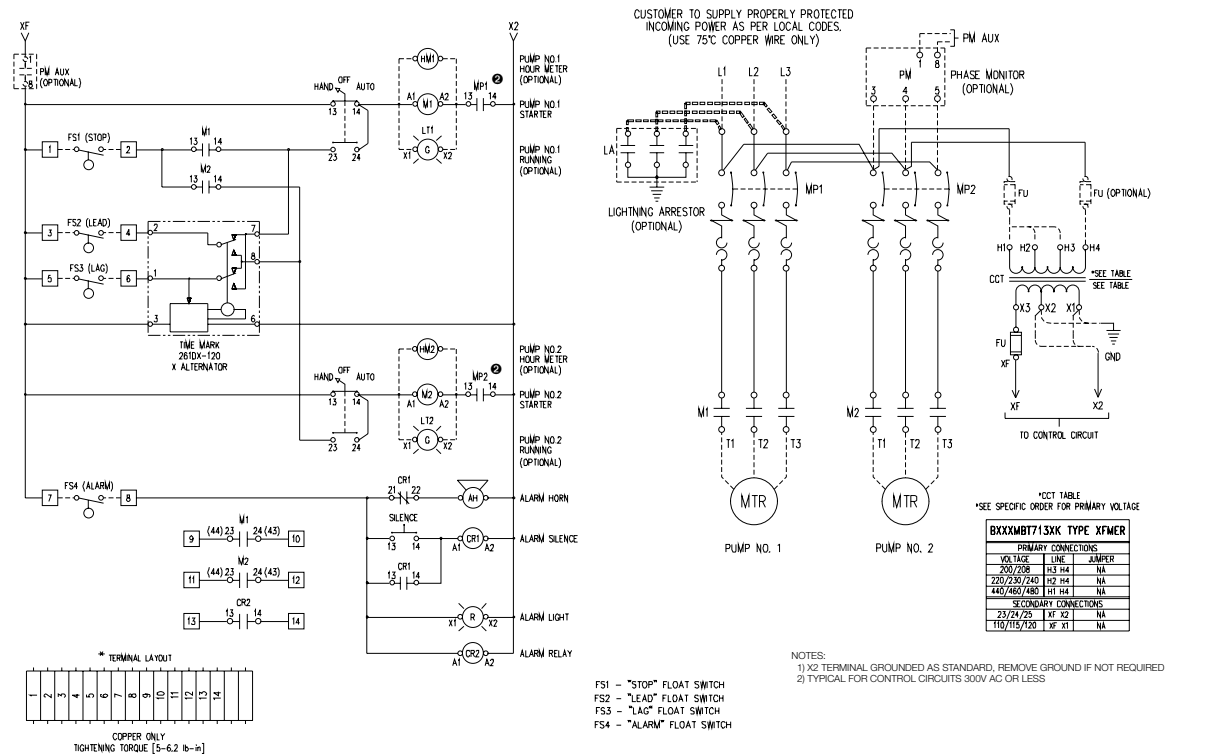
**F**

Enclosed Motor Circuit Controllers

**KTA9 Type E/F Combination 3-PH FVNR Duplex Alternating Panel with H-O-A, Lead, Lag and Stop 1-Pole Float Switches**

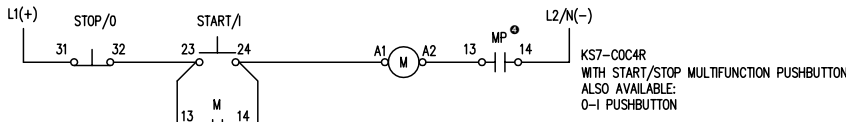


**KTA9 Type E/F Combination 3-PH FVNR Duplex Alternating Panel with H-O-A, Alarm Circuit, Lead, Lag, Stop, 1-Pole Float Switches**

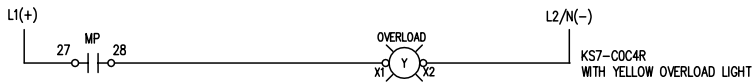
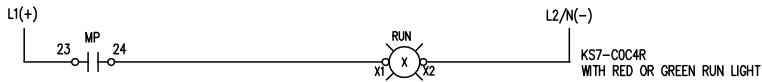
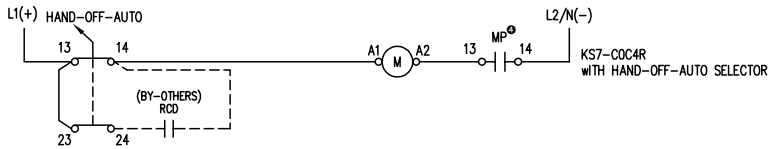
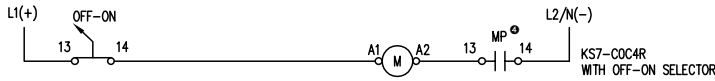
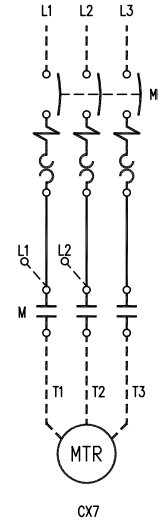


**F** Enclosed Motor Circuit Controllers

#### ECombo/EComboPlus/CX7 KWIKstarters Non-Reversing



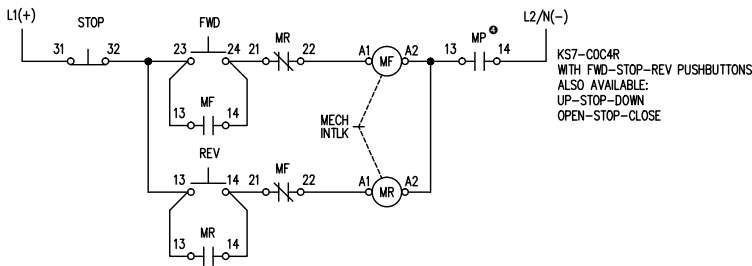
CUSTOMER TO SUPPLY PROPER BRANCH  
CIRCUIT PROTECTION AS PER LOCAL CODES.  
(USE 75°C COPPER WIRE ONLY)



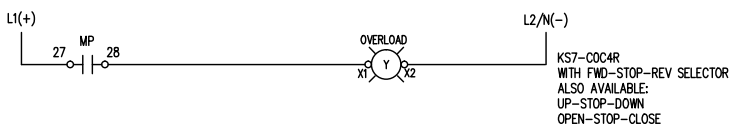
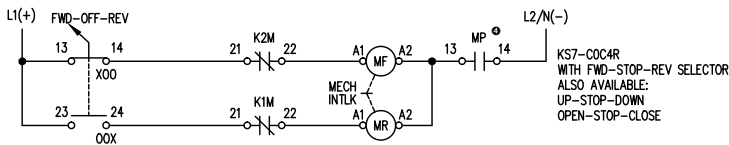
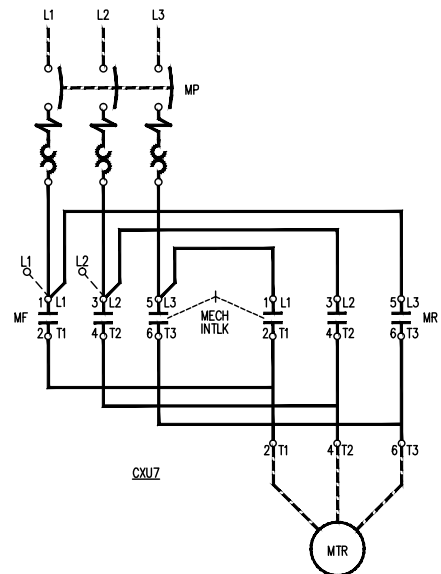
NOTES:

- 1) MP: KT9 "TYPE E" MOTOR CONTROLLER
- 2) DO NOT CONNECT A1-A2 TO L1-L2 UNLESS COIL VOLTAGE MATCHES LINE VOLTAGE
- 3) OPTIONAL RUN LIGHT, MAYBE RED OR GREEN
- 4) TYPICAL FORCONTROL CIRCUITS 300V AC OR LESS

#### ECombo/EComboPlus/CXU7 KWIKstarters Reversing



CUSTOMER WILL PROVIDE BRANCH CIRCUIT PROTECTION (F1)  
SEE THE APPLICATION INSTRUCTION SHEET - COMPONENT SELECTION TABLES  
FOR MAX. FUSE SIZE, CLASS, AND APPLICABLE SHORT CIRCUIT RATING  
(USE 75°C COPPER WIRE ONLY)



NOTES:

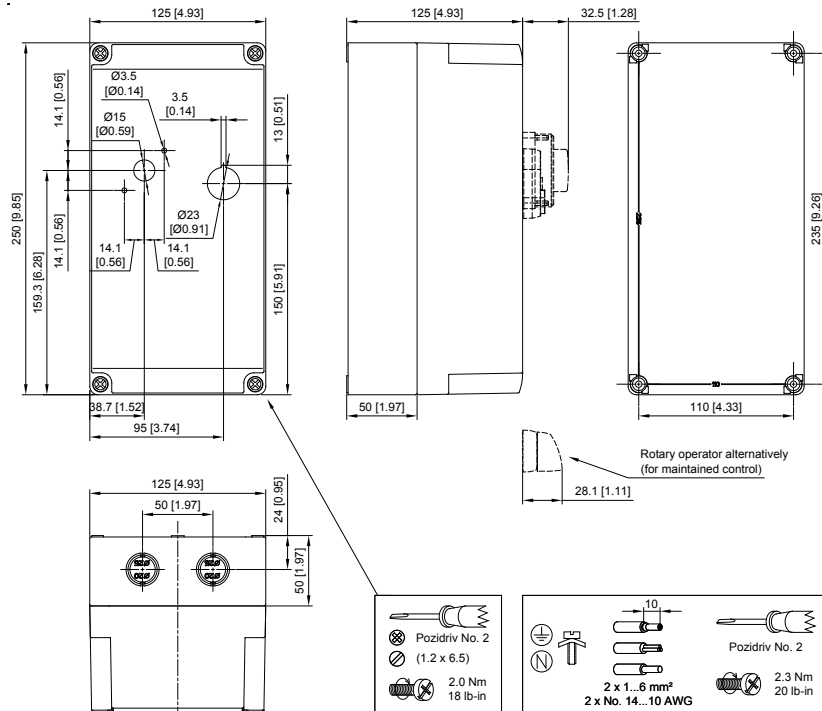
- 1) MECHANICAL INTERLOCK
- 2) MP: KT9 "TYPE E" MOTOR CONTROLLER
- 3) DO NOT CONNECT A1-A2 TO L1-L2 UNLESS COIL VOLTAGE MATCHES LINE VOLTAGE
- 4) TYPICAL FORCONTROL CIRCUITS 300V AC OR LESS

F

Enclosed Motor Circuit Controllers

**CX7/CXU7 KWIKstarter Enclosure KS7-COC4R (Dimension Code Q4)**

Dimensions are in decimal inches. Dimensions not intended for manufacturing purposes.



**Enclosure Dimensions**

Dimensions are in decimal inches. Dimensions not intended for manufacturing purposes. See dimension drawings on next page.

**IP65 ENCLOSURE**

| Encl. ID Dim. | Figure No. | Enclosure Size |      |      | Mtg Depth | Mtg Centers |      |     | Panel Size Sub-Pan |  |
|---------------|------------|----------------|------|------|-----------|-------------|------|-----|--------------------|--|
|               |            | A              | B    | C    |           | D           | E    | F   |                    |  |
| AY            | 1          | 5.91           | 3.54 | 5.12 | N/A       | N/A         | 5.32 | N/A | N/A                |  |

**TYPE-4/4X/12 ENCLOSURE**

| Encl. ID Dim. | Figure No. | Enclosure Size |      |      | Mtg Depth | Mtg Centers |       |     | Panel Size Sub-Pan |  |
|---------------|------------|----------------|------|------|-----------|-------------|-------|-----|--------------------|--|
|               |            | A              | B    | C    |           | D           | E     | F   |                    |  |
| Q5            | 2          | 7.00           | 5.03 | 5.02 | 4.3       | 4.21        | 6.18  | N/A | N/A                |  |
| Q6            | 3          | 7.00           | 7.00 | 6.02 | 5.3       | 6.18        | 6.18  | N/A | N/A                |  |
| Q7            | 4          | 11.87          | 7.31 | 10.6 | 7.23      | 6.54        | 11.10 | N/A | N/A                |  |

**TYPE-4/12 & 12 ENCLOSURES**

| Encl. ID Dim. | Figure No. | Enclosure Size |       |      | Mtg Depth | Mtg Centers |       |       | Panel Size Sub-Pan |     | H |
|---------------|------------|----------------|-------|------|-----------|-------------|-------|-------|--------------------|-----|---|
|               |            | A              | B     | C    |           | D           | E     | F     |                    |     |   |
| W6            | 5          | 9.84           | 7.87  | 8.24 | 5.31      | 5.31        | 9.13  | 9.09  | 7.13               | -   |   |
| W7            | 5          | 13.78          | 11.81 | 10.2 | 7.28      | 9.25        | 13.07 | 13.03 | 11.06              | -   |   |
| L             | 6          | 8              | 6     | 6    | 5.53      | 4           | 8.75  | 6.75  | 4.88               | 9.5 |   |

**TYPE 4/7/9 ENCLOSURES**

| Encl. ID Dim. | Figure No. | Mtg. Dim. |      |      | Inside Dim. | Outside Dim. |      |       |      | Conduit Entry Top & Bot |
|---------------|------------|-----------|------|------|-------------|--------------|------|-------|------|-------------------------|
|               |            | A         | B    | C    |             | D            | E    | F     | G    |                         |
| EX            | 7          | 3.25      | 7.75 | 3.5  | 6.0         | 3.0          | 4.56 | 7.06  | 6.25 | 0.75                    |
| EY            | 7          | 5.50      | 8.50 | 5.50 | 5.50        | 6.0          | 7.0  | 7.0   | 8.84 | 1.0                     |
| EZ            | 8          | 9.13      | 4.50 | 6.0  | 8.0         | 6.63         | 9.25 | 11.25 | 9.34 | 1.50                    |

**F** Enclosed Motor Circuit Controllers

**Enclosures**

See Enclosure Dimension Charts on Previous Page.

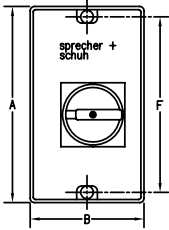


FIGURE NO. 1

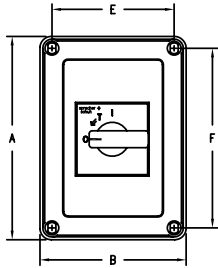


FIGURE NO. 2

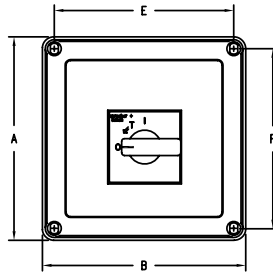


FIGURE NO. 3

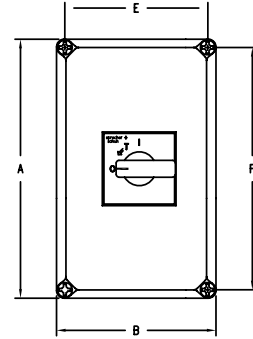
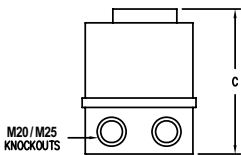
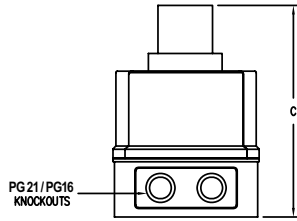


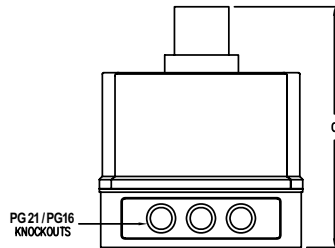
FIGURE NO. 4



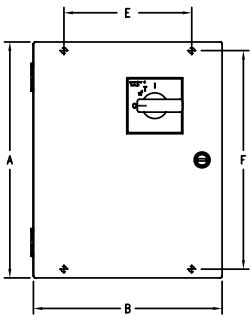
M20/M25  
KNOCKOUTS



PG21/PG16  
KNOCKOUTS



PG21/PG16  
KNOCKOUTS



TYPE 4/12  
FIGURE NO. 5

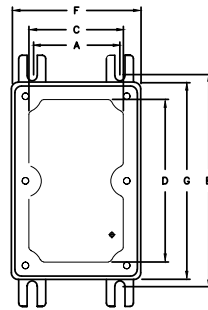
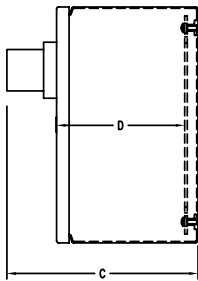


FIGURE NO. 7

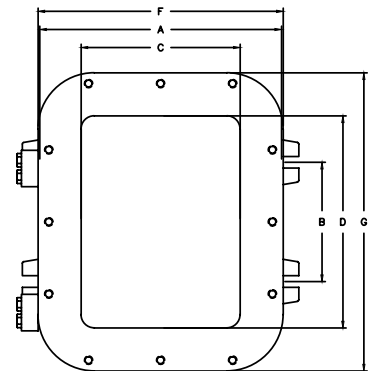
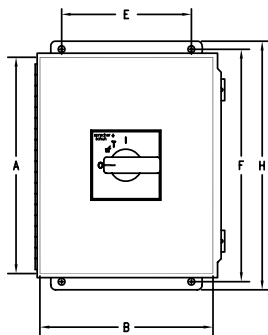
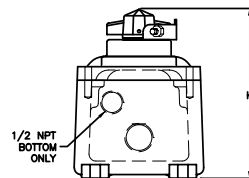
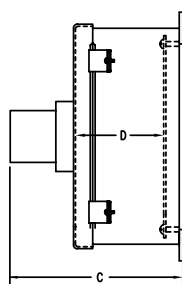


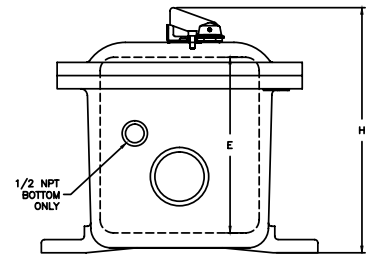
FIGURE NO. 8



TYPE 12  
FIGURE NO. 6



1/2 NPT  
BOTTOM  
ONLY



1/2 NPT  
BOTTOM  
ONLY

**F**

*Enclosed Motor Circuit Controllers*