



| WIRE SIZE<br>SERVICE ENTRANCE<br>GROUND LUG |                                 |
|---|---------------------------------|
| MAXIMUM<br>WIRE SIZE                        | TIGHTENING<br>TORQUE<br>(in-lb) |
| #6 AWG                                      | 45                              |
| #1/0 AWG                                    | 50                              |
| #250MCM AWG                                 | 325                             |

PRESSURE SYSTEM  
CONNECTION  
1/2" NPT

\* LINE TERMINALS – WIRE CAPACITY AND QUANTITY

| MAXIMUM MOTOR HORSEPOWER |          |          |          |          | WIRE SIZE<br>PER PHASE<br>(75°C Cu) | TIGHTENING<br>TORQUE<br>(in-lb) |
|--------------------------|----------|----------|----------|----------|-------------------------------------|---------------------------------|
| 200–208V                 | 220–240V | 380–415V | 440–480V | 550–600V |                                     |                                 |
| 5–40                     | 5–40     | 5–75     | 5–75     | –        | (1)#8–#1/0 AWG                      | 120                             |
| 50–60                    | 50–75    | 100–125  | 100–150  | –        | (1)#2/0–#250MCM AWG                 | 225                             |
| 75–100                   | 100–125  | 150–200  | 200–250  | –        | (1)#2/0–#500MCM AWG                 | 375                             |
|                          |          |          |          |          | (2)#2/0–#250MCM AWG                 | 375                             |
| 125–150                  | 150–200  | 250–300  | 300–400  | –        | (2)#2/0–#350MCM AWG                 | 375                             |
| 200–250                  | 250      | 350–400  | 500      | –        | (3)#3/0–#400MCM AWG                 | 375                             |
| –                        | 300      | –        | 600      | –        | (4)#4/0–#500MCM AWG                 | 375                             |

\* MOTOR TERMINALS – WIRE CAPACITY AND QUANTITY

| MAXIMUM MOTOR HORSEPOWER |          |          |          |          | WIRE SIZE<br>PER PHASE<br>(75°C Cu) | TIGHTENING<br>TORQUE<br>(in-lb) |
|--------------------------|----------|----------|----------|----------|-------------------------------------|---------------------------------|
| 200–208V                 | 220–240V | 380–415V | 440–480V | 550–600V |                                     |                                 |
| 5–40                     | 5–50     | 5–75     | 5–100    | –        | (1)#6–#1 AWG                        | 120                             |
| 50–60                    | 60–75    | 100–125  | 125–150  | –        | (1)#1/0–#3/0 AWG                    | 200                             |
| 75–125                   | 100–125  | 150–200  | 200      | –        | (1)#4/0–#500MCM AWG                 | 275                             |
| 150–200                  | 125–200  | 250–350  | 250–400  | –        | (2)#2/0–#350MCM AWG                 | 275                             |
| 250                      | 250–300  | 400      | 500–600  | –        | (2)#250MCM–#500MCM AWG              | 500                             |

NOTES:

- \* 1.) FOR CORRECT FIELD WIRE SIZING, REFER TO THE NATIONAL ELECTRICAL CODE, NFPA-70.  
 2.) MOTOR CONNECTIONS SHOWN ARE TYPICAL. SINCE MOTOR CONNECTIONS VARY WIDELY, REFER TO THE MOTOR MANUFACTURER'S CONNECTION DIAGRAM FOR SPECIFIC WIRING ARRANGEMENT.



| REV   | DATE     | BY | DESCRIPTION                                 | DRAWN | DAMA | 11-18-15     |
|---|----------|----|---|-------|------|--------------|
| B   | 08/30/18 |    | UPDATED WIRE CAPACITY AND WIRE SIZE TABLES. | CHECK | DAMA | 11-18-15     |
|   |          |    |   | APPD  |      |              |
| FIELD CONNECTIONS, MODEL MPT700<br>SOLID STATE SOFT START<br>ELECTRIC FIRE PUMP CONTROLLER<br>WITH TRANSFER SWITCH  |          |    |   |       |      |              |
| <div> <b>METRON</b><br/>           A Division of<br/>           Hubbell Industrial Controls, Inc.<br/>           4301 Cheyenne Drive, Archdale, NC 27263 USA         </div> |          |    |   |       |      |              |
| OPTIONS:  |          |    |   |       |      |              |
| HCMPTF700TS   |          |    |   |       |      |              |
| SCALE NTS   |          |    |   |       |      | SHEET 2 OF 2 |