



WIRE SIZE SERVICE ENTRANCE GROUND LUG	
MAXIMUM WIRE SIZE	TIGHTENING TORQUE (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 PER PHASE (75°C Cu)	TIGHTENING TORQUE (in-lb)
200–208V	220–240V	380–415V	440–480V	550–600V		
5–40	5–40	5–75	5–75	–	(1)#8–#3/0 AWG	120
50–60	50–60	100	100–150	–	(1)#3/0–#350MCM AWG	375
75–125	100–125	150–200	200–250	–	(2)#3/0–#250MCM AWG	325
150	150–200	250–300	300–400	–	(2)#3/0–#350MCM AWG	375
200–250	250	350–400	500	–	(3)#3/0–#400MCM AWG	375
300	300	500–700	600–700	–	(4)#4/0–#500MCM AWG	500

* MOTOR TERMINALS – WIRE CAPACITY AND QUANTITY

MAXIMUM MOTOR HORSEPOWER					WIRE SIZE PER PHASE (75°C Cu)	TIGHTENING TORQUE (in-lb)
200–208V	220–240V	380–415V	440–480V	550–600V		
5–60	5–60	5–100	5–150	–	(1)#8–#1/0 AWG	100
40–60	50–75	75–100	100–150	–	(1)#6–#2/0 AWG	120
75–100	100–125	150–200	200–250	–	(1)#2–#3/0 AWG	120
125–150	150–200	250–350	300–400	–	(1)#1/0–#250MCM AWG	325
200–300	250–300	400–500	500–600	–	(1)#250MCM–#500MCM AWG	500
–	–	600–700	700	–	(2)#3/0–#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
A	05/15/17	DAMA	CHANGED BOARD PART NOS.; ELIMINATED POWER COMMS HUB.	CHECK DAMA	APPD	11-18-15

FIELD CONNECTIONS, MODEL MPT420
PART WINDING START
ELECTRIC FIRE PUMP CONTROLLER
WITH TRANSFER SWITCH

SCALE NTS SHEET 2 OF 2

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