



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-#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 (2)#2/0-#250MCM AWG	375
125-150	150-200	250-300	300-400	-	(2)#2/0-#350MCM AWG	375
200-250	250-300	350-500	500-600	-	(3)#3/0-#400MCM AWG	375
300	-	600-700	700	-	(4)#4/0-#500MCM AWG	375

* 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		
5-40	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	100-150	150-250	200-300	-	(1)#4/0-#500MCM AWG	275
150-200	200-250	300-400	350-500	-	(2)#2/0-#350MCM AWG	275
250	300	500-700	600-700	-	(2)#250MCM-#600MCM 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: 08/30/18	DESCRIPTION: UPDATED WIRE CAPACITY AND WIRE SIZE TABLES.	DRAWN: DAMA	11-18-15	METRON A Division of Hubbell Industrial Controls, Inc. 4301 Cheyenne Drive, Archdale, NC 27263 USA
B		CHECK: DAMA	11-18-15	
FIELD CONNECTIONS, MODEL MPT420 PART WINDING START ELECTRIC FIRE PUMP CONTROLLER WITH TRANSFER SWITCH				OPTIONS: HCMPTF420TS
SCALE: NTS			SHEET 2 OF 2	