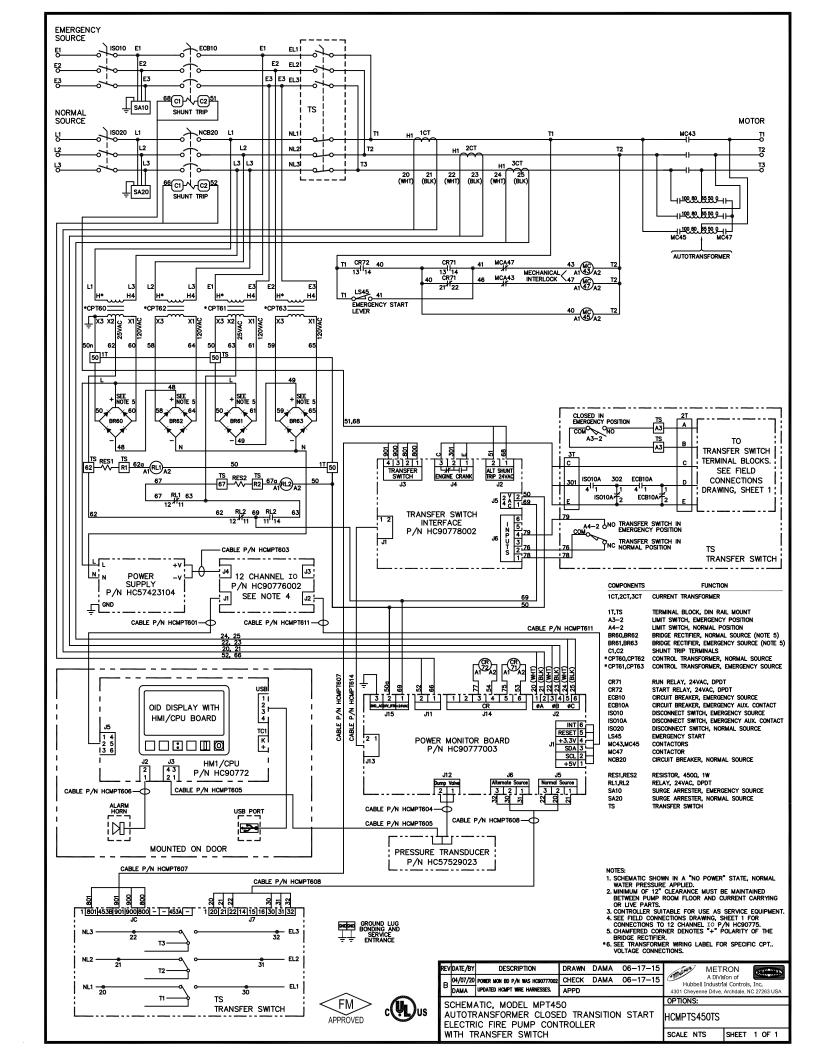
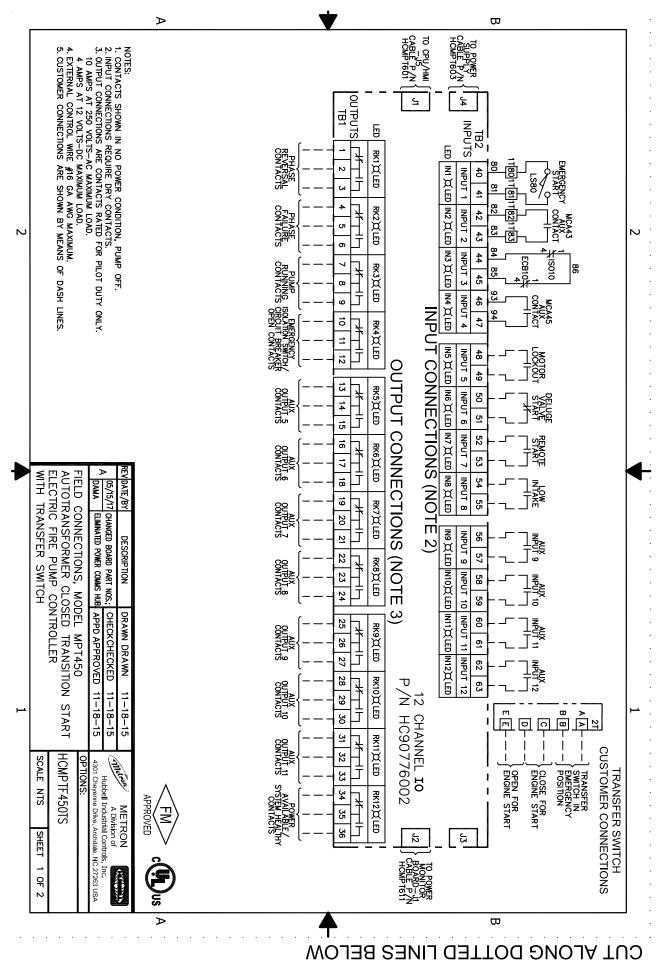
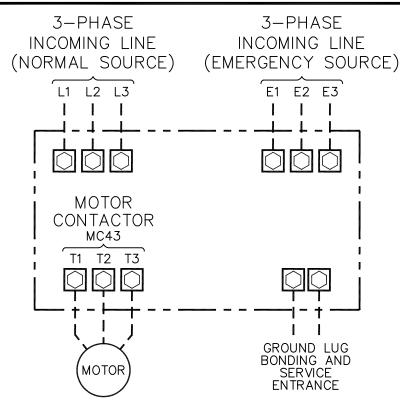
**DIMENSIONS & DATA** MPT400TS, **ELECTRIC FIRE PUMP** APPROVED MPT450TS WITH TRANSFER SWTICH 16.00 32.00 [406.4] [812.8] RESISTOR CABINET FOR MPT400TS **ONLY** SEE CHART 14.00 [355.6] **TOUCH SCREEN DIGITAL DISPLAY** В **USB ALARM HORN PORT EMERGENCY SOURCE** ISO/CB SWITCHES NORMAL SOURCE **HANDLE ISO/CB SWITCHES HANDLE** 71.08 [1805.3] LOCKING DOOR EMERGENCY START **HANDLES HANDLE CONTROLLER** MTSØ2.50 2 HOLES FOR PIPE **ENTRANCE** 8.00 TYP. ALL LEGS [203.2] 52.33 14.00 6.00 [1329.2] [355.6] FRONT VIEW [152.4] SIDE VIEW RECOMMENDED CONDUIT ENTRANCE-1/2" NPT FEMALE (BOTTOM ONLY) 6.88 WATER CONNECTIONS [174.8] 10.10 \* SEE DETAIL 6.88 16.00 [256.5] 1.50 [174.8] "A" [406.4] [38.1] **INLET** 15.54 11.00 **OUTLET** [394.7] [279.4] • 0 8.74 5.90 MOUNTING [221.9] 3.40 [149.9] **HOLES** 32.18 20.24 [86.3] [817.4] [514.1]**BOTTOM VIEW** DETAIL A **PLUMBING** TABLE FOR "X" DIM. FOR MPT400TS RESISTOR CAB. **ENCLOSURE TYPES** TYPE 3R CRS (STD) SHOWN **VOLTAGES** HP, "X"=15" HP, "X"=21" TYPE 4 CRS **VOLTAGES HORSEPOWERS** 208V 50-75 NA TYPE 4X CRS MPT400TS MPT450TS 220-240V 60-75 N/A TYPE 304 SS (PAINTED) 208V 25-75 50-75 380-415V 100 125 230-240V 30-75 **TYPE 304 SS UNPAINTED** 60-75 N/A 440-480V 125-150 TYPE 316 SS PAINTED 380-415V 100-125 40-125 **TYPE 316 SS UNPAINTED** 440-480V 125-150 40-150 SELECTION TABLE (CHOOSE FROM TABLES ON LEFT) NOTES: **CONTROLLER TYPE** HP **VOLTAGE ENCLOSURE TYPE** • ENCLOSURE MADE FROM 16GA. STEEL WITH RED POLYESTER POWDER FINISH. MPT400TS • ENTER CABLE(S) FROM TOP OR BOTTOM (PREFERRED) MPT450TS • PROTECT INTERNAL EQUIPMENT FROM DRILLING CHIPS • DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE. ALWAYS CONSULT **CONTROLLER WITH MTS** FACTORY TO CONFIRM CURRENT INFORMATION. (METRON TRANSFER SWITCH) **RATING:** • TYPE 3R SHOWN. DATE: 1/2017 DRAWN BY: S. JUDD REV. N/A • ALL DIMENSIONS IN INCHES. ALL DMENSIONS ARE SAME FOR 3R, 12, 4 AND **METRON** DRAWING NO. 4X ENCLOSURE TYPES. HUBBELT Division of - Hubbell ICD, Inc. MPTD34008 • POWER AVAILABLE AND PUMP RUNNING LIGHTS ARE STANDARD 4301 Cheyenne Drive Archdale, N.C. 27263 4





CUT ALONG DOTTED LINES BELOW



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	TIGHTENING TORQUE	
200-208V	220-240V	380-415V	440-480V	550-600V	(75°C Cu)	(in-lb)
5-40	5-40	5-75	5-100	-	(1)#8-#3/0 AWG	120
50-75	50-75	100-125	125-150	_	(1)#3/0-#350MCM AWG	225
100-125	100-125	150-200	200-250	_	(1)#2/0-#500MCM AWG	375
					(2)#3/0-#250MCM AWG	275
150	150-200	250-300	300-400	_	(2)#3/0-#350MCM AWG	275
200-250	250	350	450-500	_	(3)#3/0-#400MCM AWG	375
_	_	_	_	_	-	_

## \*MOTOR TERMINALS - WIRE CAPACITY AND QUANTITY

MAXIMUM MOTOR HORSEPOWER				WIRE SIZE PER PHASE	TIGHTENING	
200-208V	220-240V	380-415V	440-480V	550-600V		TORQUE (in-lb)
5-20	5-20	5-30	5-30	_	(1)#8-#4 AWG	120
25-75	25-75	40-125	40-150	_	(1)#6-#300MCM AWG	275
100-125	100-125	150-200	200-250	_	- (1)#350MCM-#500MCM AWG	
150	150-200	250-300	300-400	_	(2)#4/0-300MCM AWG	275
200-250	250	350-400	500	_	(3)#250MCM-#350MCM AWG	275

## 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.





RE	V DATE/BY	DESCRIPTION	CRIPTION DRAWN DAMA 11-18-1		Moloon	METRON		(Carry)
L	C 02/07/20 UPDATED WIRE CAPACITY AND WIRE SIZE TABLES.		CHECK DAMA	11-18-15	A Division of Hubbell Industrial Controls, Inc. 4301 Cheyenne Drive, Archdale, NC 2726		Inc	
Ľ			APPD					
Г	FIELD CONNECTIONS, MODEL MPT450 AUTOTRANSFORMER CLOSED TRANSITION START ELECTRIC FIRE PUMP CONTROLLER WITH TRANSFER SWITCH					OPTIONS:		
L						HCMPTF450TS		
١						s s	SHEET	2 OF 2