



COMPONENTS	FUNCTION
1CT,2CT,3CT	CURRENT TRANSFORMER
1T	TERMINAL BLOCK, DIN RAIL MOUNT
BR60,BR62	BRIDGE RECTIFIER, NORMAL SOURCE (NOTE 5)
C1,C2	SHUNT TRIP TERMINALS
CPT60,CPT62	CONTROL TRANSFORMER, NORMAL SOURCE
CR71	RUN RELAY, 24VAC, DPDT
CR72	START RELAY, 24VAC, DPDT
ISO20	DISCONNECT SWITCH, NORMAL SOURCE
RESET	EMERGENCY START
MC43,MC45	CONTACTORS
MC47	CONTACTOR
NCB20	CIRCUIT BREAKER, NORMAL SOURCE
RES1,RES2	RESISTOR, 700Ω, 1W
RL1,RL2	RELAY, 24VAC, DPDT
SA20	SURGE ARRESTER, NORMAL SOURCE

- NOTES:
1. SCHEMATIC SHOWN IN A "NO POWER" STATE, NORMAL WATER PRESSURE APPLIED.
 2. MINIMUM OF 12" CLEARANCE MUST BE MAINTAINED BETWEEN PUMP ROOM FLOOR AND CURRENT CARRYING OR LIVE PARTS.
 3. CONTROLLER SUITABLE FOR USE AS SERVICE EQUIPMENT.
 4. SEE FIELD CONNECTIONS DRAWING, SHEET 1 FOR CONNECTIONS TO 12 CHANNEL IO P/N HC90775.
 5. CHAMFERED CORNER DENOTES "+" POLARITY OF THE BRIDGE RECTIFIER.

GROUND LUG
BONDING AND
SERVICE
ENTRANCE



REV	DATE	BY	DESCRIPTION	DRAWN	DAMA	06-17-15
A	05/15/17		CHANGED BOARD PART NOS;	CHECK	DAMA	06-17-15
			ELIMINATED POWER COMMS HUB	APPD		

SCHEMATIC, MODEL MPT450
AUTOTRANSFORMER CLOSED TRANSITION START
ELECTRIC FIRE PUMP CONTROLLER

	METRON A Division of Hubbell Industrial Controls, Inc. 4301 Cheyenne Drive, Archdale, NC 27263 USA
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OPTIONS:	HCMP450
SCALE	NTS
SHEET	1 OF 1