

**NOTES**

- 1) ALL DIMENSIONS GIVEN IN INCHES UNLESS OTHERWISE SPECIFIED.
- 2) MAX OPERATING PRESSURE: 150 PSI
- 3) TANK CONSTRUCTION: CARBON STEEL
- 4) EXTERIOR: EPOXY/POWDER COATED
- 5) APPROXIMATE MASS: 1482 LBS

#	COMPONENT
1	NEMA 4X, UL, 460V/3PH/60Hz CONTROL PANEL
2	SEPARATOR: 5" ICS, COATED CARBON STEEL
3	PUMP: 20HP 3600RPM, 460/3/60, 550 GPM @ 70' TDH
4	INLET/OUTLET PRESSURE GAUGES: 2.5" 0-160 PSI, LIQ FILLED
5	BAG FILTER: 100GPM CARBON STEEL HOUSING
6	BAG CHANGE INDICATOR: MIDWEST #555-043
7	BASE: COATED CARBON STEEL I-BEAM
8	FACE PIPE: 6" PVC SCH 80

**amiad**<sup>®</sup> WATER SYSTEMS  
 120-J TALBERT ROAD  
 MOORESVILLE, NC 28117  
 PH: (704) 662-3133  
 FAX: (704) 662-3155

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DRAWING DATE: 8/1/2018	DRAWING TITLE: ICSR 550 GPM HH WITH FACE PIPING AND PUMP
SCALE: 1:24	DRAWING NUMBER: 200290-000015 HH-R 550GPM
SHEET 1 OF 3	CAT NUMBER: 200290-000015
DRAWN BY: BJH	REV. NO. 0
CHECKED BY: _____	GENERAL TOLERANCES (EXCEPT AS NOTED)
APPROVED BY: _____	ANGULAR ± 1° FRACTIONAL ± 1/8" Dec: 2 PL ± 0.05", 3 PL ± 0.010"

NO.	REVISION NOTES	DATE	BY

460V/3 $\phi$ /60 Hz

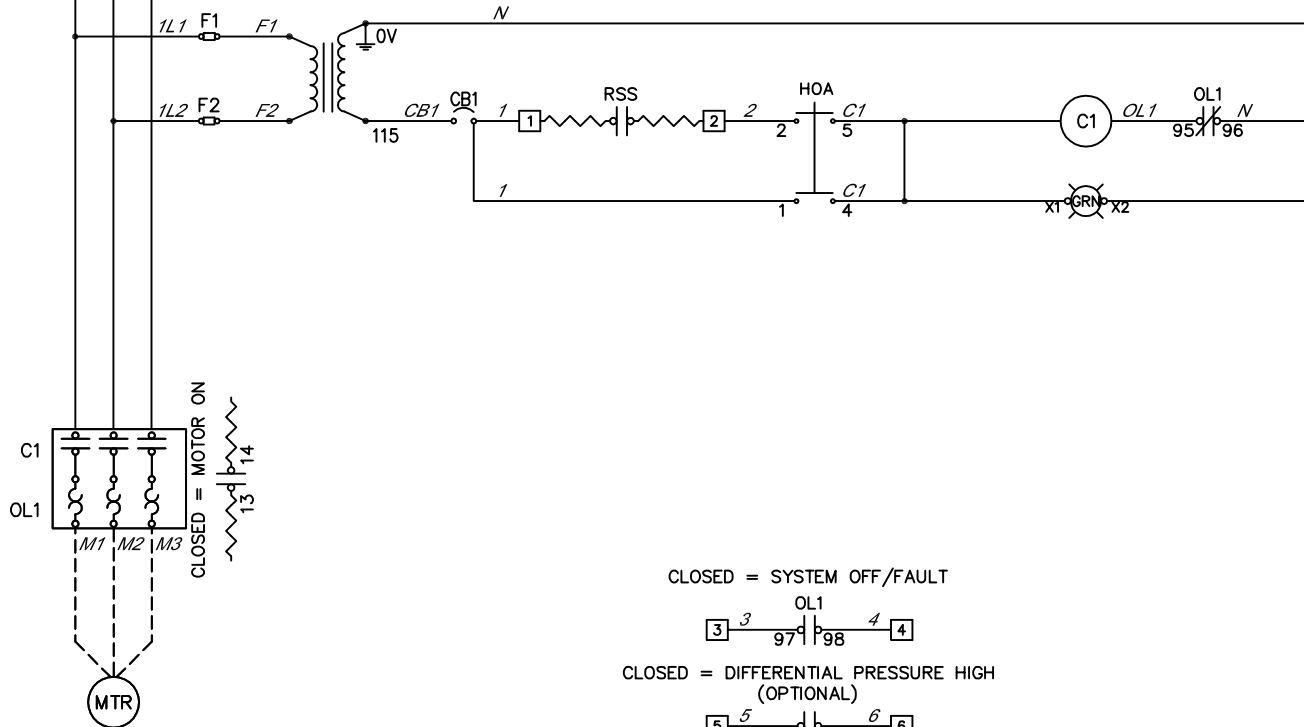
L1 L2 L3

MAIN DISCONNECT AND BRANCH CIRCUIT PROTECTION PROVIDED BY OTHERS (MAXIMUM OF 70A DUAL TIME DELAY FUSE OR 100A INVERSE TIME BREAKER RECOMMENDED)

150VA TRANSFORMER		
Voltage	Fuse	Location
460	1A	H1-H4
230	2A	H2-H4
208	2A	H3-H4

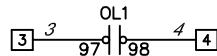
LOCKABLE NON-FUSED DISCONNECT SWITCH (RATED @ 40 AMPS)

ALL PRIMARY FUSING TO BE LITTELFUSE CLASS CC, CCMR OR EQUIV.

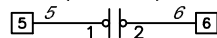


CLOSED = MOTOR ON

CLOSED = SYSTEM OFF/FAULT



CLOSED = DIFFERENTIAL PRESSURE HIGH (OPTIONAL)



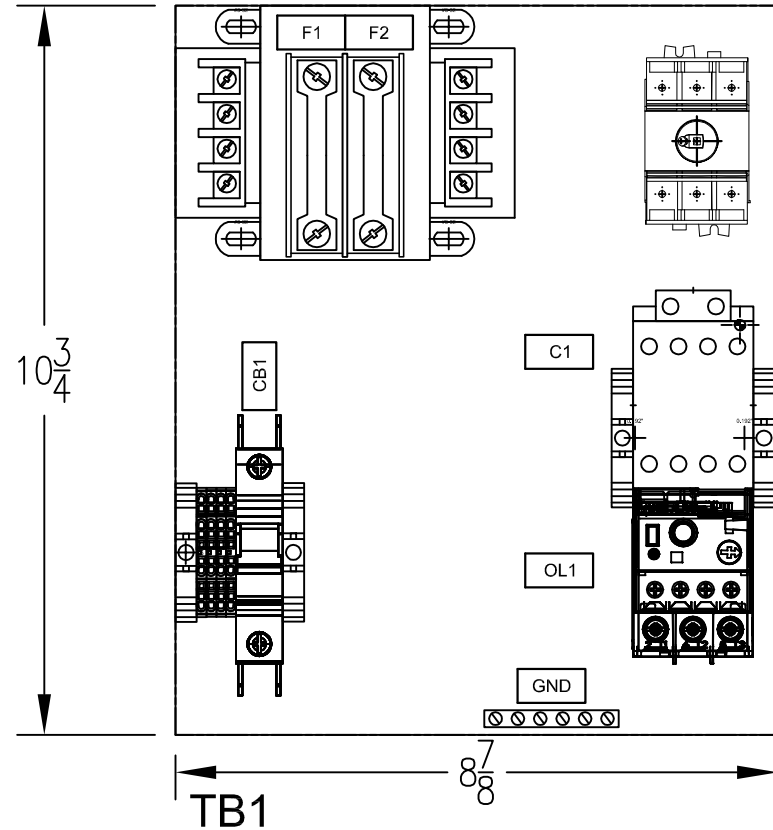
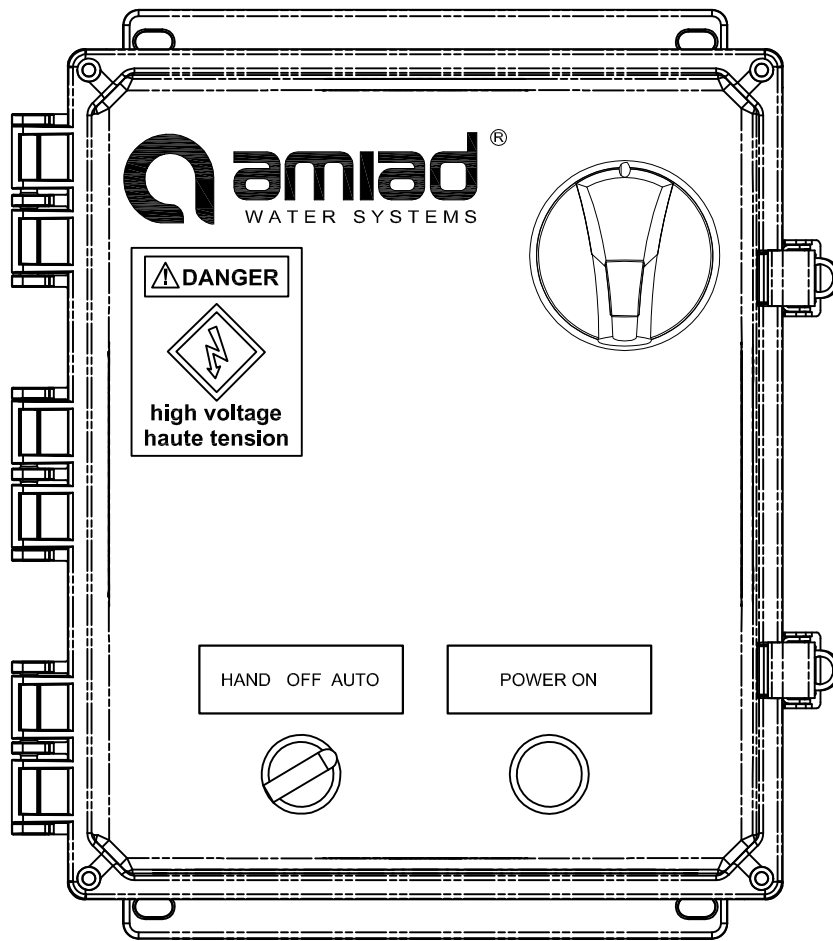
MAX. VOLTAGE: 600V  
MAX. AMPERES: 39.67A

POWER	POWER	460V/3~/60HZ	STANDARD	UL 508A	
	TOTAL FLA	40 AMPS		SIZE	12"L x 10"W x 6"D
	SCCR	5 kA RMS SYMMETRICAL, 600V MAX.		UL RATING	TYPE 4X
	LARGEST MTR.	30 HP		MATERIAL	POLYCARBONATE

- GROUND PER 2011 NATIONAL ELECTRICAL CODE ARTICLE 250.
- PANEL WIRING: \_\_\_\_\_  
SHOP WIRING: \_\_\_\_\_  
CUSTOMER'S WIRING: \_\_\_\_\_  
FACTORY INSTALLED JUMPER: \_\_\_\_\_
- USE COPPER WIRE RATED 60°C MINIMUM UNLESS OTHERWISE SPECIFIED.
- DISCONNECT SWITCH TORQUE REQUIREMENTS: 35 LB IN. CONTACTOR/OVERLOAD TORQUE REQUIREMENTS: 7-10 LB IN.
- SIZE THE MAIN DISCONNECT AND BRANCH CIRCUIT PROTECTION PER 2011 NATIONAL ELECTRIC CODE ARTICLE 430.

- CONDUIT HUBS AND FITTINGS MUST HAVE THE SAME UL ENVIRONMENTAL RATING AS THE CONTROL PANEL ENCLOSURE.
- WIRE COLORS ARE AS FOLLOWS-LINE=BLACK, AC=RED, NEUTRAL=WHITE, DC+=BLUE, DC-=WHITE/BLUE, GROUND=GREEN/YELLOW, EXTERNAL SOURCE=YELLOW.
- SET MOTOR OVERLOADS ACCORDING FLA ON MOTOR DATA PLATE
- ALL MOTOR WIRING TO BE AT LEAST CU. 75° RATED.

		120-J TALBERT ROAD MOORESVILLE, NC 28117 USA (704) 662-3133 FAX (704) 662-3155	
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DRAWING DATE: 06/10/2014		DRAWING TITLE: 1F 460V/3~ DP NO TIMER 9-40A WIRING DIAGRAM	
SCALE: 1" = 1"		DRAWING NUMBER: 720102-000540-ELC	
SHT. 1 of 2		REV. NO. 1	
1 11/14/2016 MOVED DISCONNECT TO DOOR		CATALOG NUMBER: 720102-000540	
NO.	DATE	NOTES	BY
APP. BY: _____		GENERAL TOLERANCES (EXCEPT AS NOTED)	ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05", 3PL±0.010"



UPPER LEVEL

LOWER LEVEL

1	2	3	4
5	6	7	8

**NOTE**

1. ALL HARDWARE WILL INCLUDE ONE MECHANICAL LOCK AND A FLAT WASHER.
2. THE ONLY EXCEPTION IS IF THE MECHANICAL SCREW IS A SELF-THREADING SCREW.
3. IF BOLT/SCREW NEEDS TO GO THROUGH A THROUGH-HOLE, THE BOLT/SCREW WILL NEED A FLAT WASHER ON BOTH SIDES OF THE MATERIAL AND MECHANICAL LOCK BEFORE THE NUT.
4. ALL HARDWARE HAS TO THREAD AT LEAST TWO COMPLETE TURNS THROUGH THE NUT/THREADED HOLE
5. IF VISIBLE, NO HARDWARE WILL EXTEND PAST THREE THREADS OUT OF THE NUT/THREADED HOLE.
6. BACKPLANE AND DEAD FRONT IF REQUIRED ARE TO BE GROUNDED ACCORDING NEC 70E.
7. UNLESS OTHERWISE NOTED, ALL CONTACTORS WILL BE AB 100-C, OVERLOADS AB 193 E-1, CONTROL RELAYS AB 700-HLT, AND CIRCUIT BREAKERS AB 1489.

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DRAWING DATE: 06/10/2014		DRAWING TITLE: 1F 460V/3~ DP NO TIMER 9-40A WIRING DIAGRAM	
SCALE: 1" = 3"		DRAWING NUMBER: 720102-000540-ELC	
SHT. 2 of 2		REV. NO. 1	
DRAWN BY: JTE		CATALOG NUMBER: 720102-000540	
APP. BY: ---		GENERAL TOLERANCES (EXCEPT AS NOTED)	
NO. DATE		ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05", 3PL±0.010"	

NO.	DATE	NOTES	BY	CHKD BY: ---
GENERAL REVISIONS				