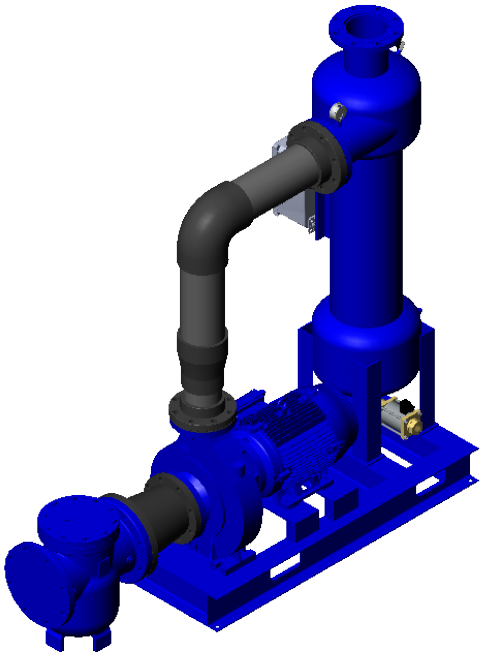
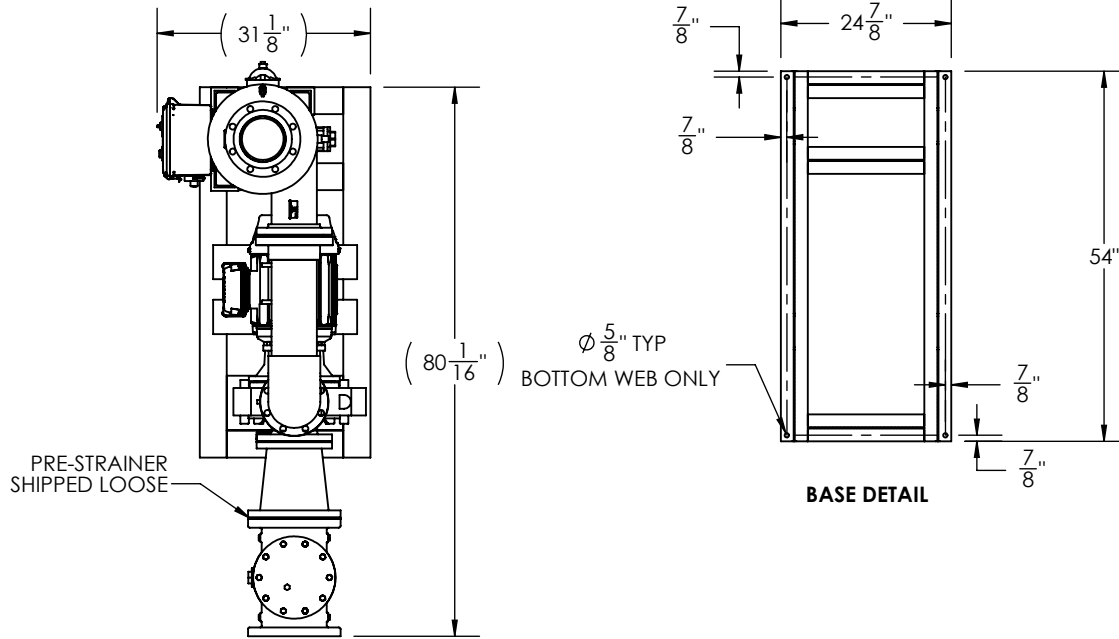


D

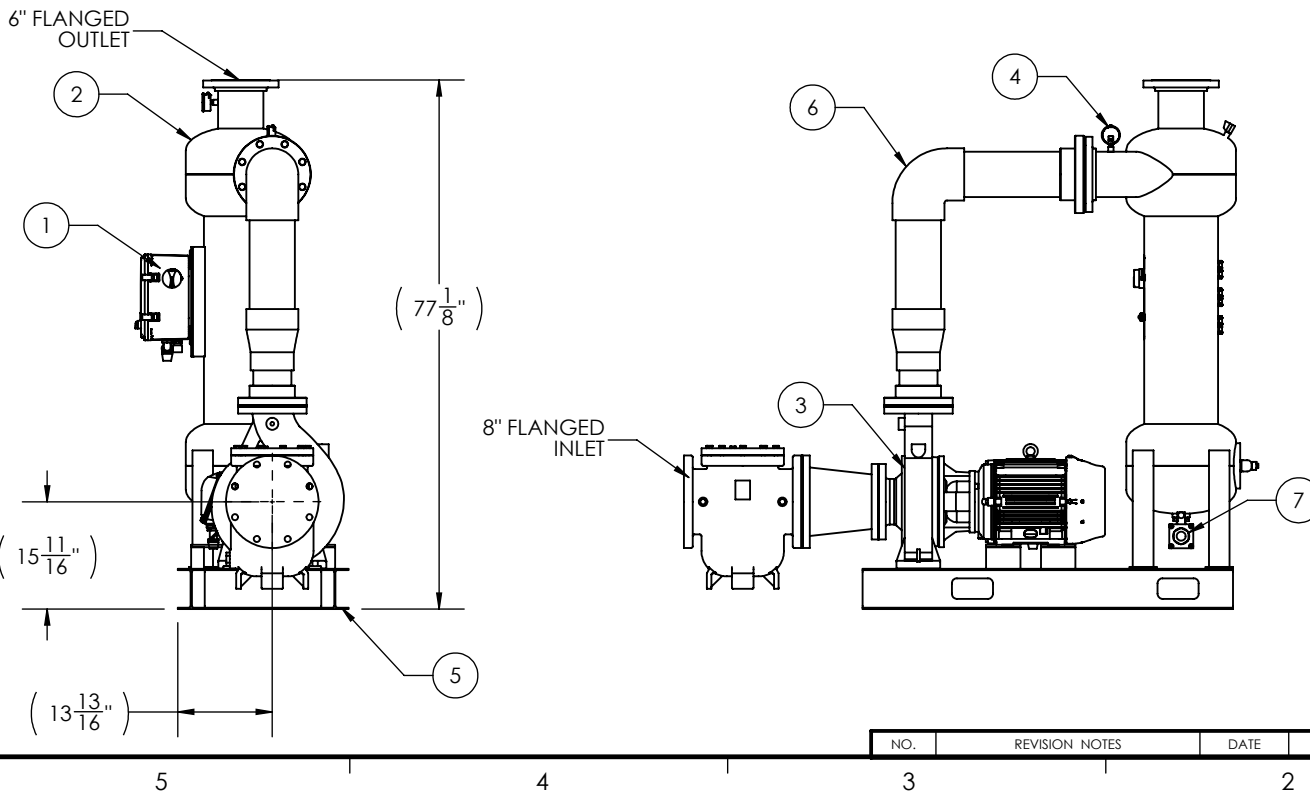


C

### NOTES

- 1) ALL DIMENSIONS GIVEN IN INCHES UNLESS OTHERWISE SPECIFIED.
- 2) MAX OPERATING PRESSURE: 150 PSI
- 3) TANK CONSTRUCTION: CARBON STEEL
- 4) EXTERIOR: EPOXY COATED
- 5) APPROXIMATE MASS:  
SHIPPING: 1335 LBS  
OPERATING: 1740 LBS

B



A

#	COMPONENT
1	NEMA 4X, UL, 460V/3PH/60Hz CONTROL PANEL
2	SEPARATOR: 6" ICS, EPOXY COATED CARBON STEEL
3	PUMP: 15HP 1750RPM, 460/3/60, 1100 GPM @ 35' TDH
4	INLET/OUTLET PRESSURE GAUGES: 2.5" 0-160 PSI, LIQ FILLED
5	BASE: EPOXY COATED STEEL I-BEAM
6	FACE PIPE: 6" PVC SCH 80
7	PURGE: 120V COAXIAL SOLENOID VALVE

**Amiad**  
 WATER SYSTEMS

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 MOORESVILLE, NC 28117  
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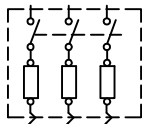
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DRAWING DATE: 5/21/2018	DRAWING TITLE: ICS 1100 GPM LH WITH FACE PIPING AND PUMP
SCALE: 1:28	DRAWING NUMBER: <b>200110-000034 ASY-1100GPM LH-S</b>
SHEET 1 OF 2	CAT NUMBER: 200110-000034
DRAWN BY: MAV	REV. NO. 0
CHECKED BY: SAL	GENERAL TOLERANCES (EXCEPT AS NOTED)
APPROVED BY: _____	ANGULAR $\pm 1^\circ$ FRACTIONAL $\pm 1/8$ " Dec: 2 PL $\pm 0.05$ '; 3 PL $\pm 0.010$ "

NO.	REVISION NOTES	DATE	BY

460V/3 $\phi$ /60 Hz

L1 L2 L3

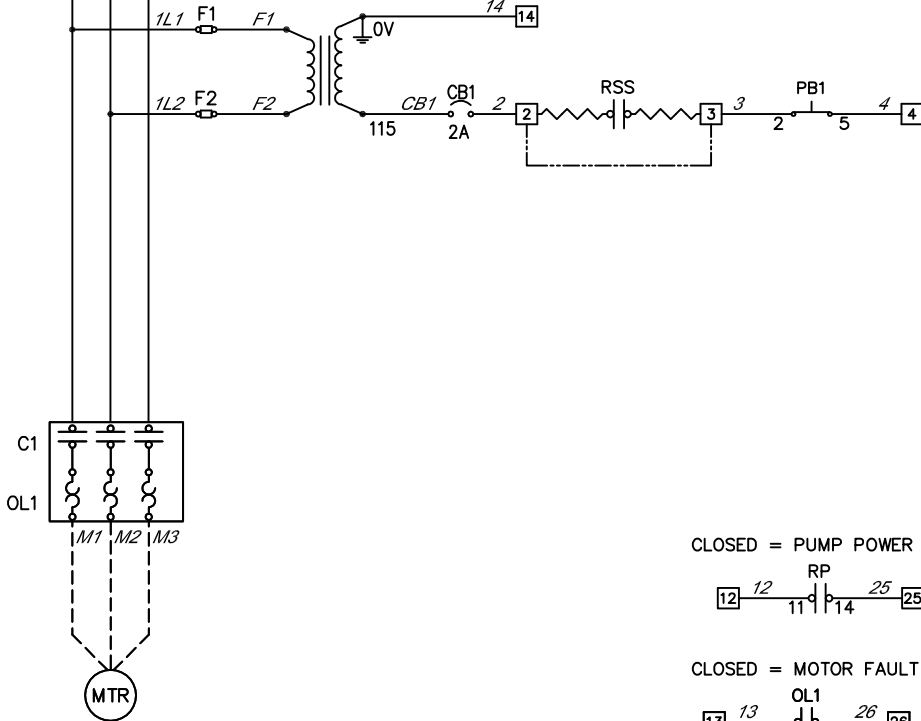


MAIN DISCONNECT AND BRANCH CIRCUIT PROTECTION PROVIDED BY OTHERS (MAXIMUM OF 60A DUAL TIME DELAY FUSE OR 90A INVERSE TIME BREAKER RECOMMENDED)

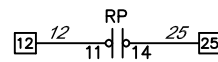
150VA TRANSFORMER		
Voltage	Fuse	Location
460	1A	H1-H4
230	2A	H2-H4
208	2A	H3-H4

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

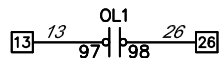
ALL PRIMARY FUSING TO BE LITTELFUSE CLASS CC, CCMR OR EQUIV.



CLOSED = PUMP POWER ON



CLOSED = MOTOR FAULT



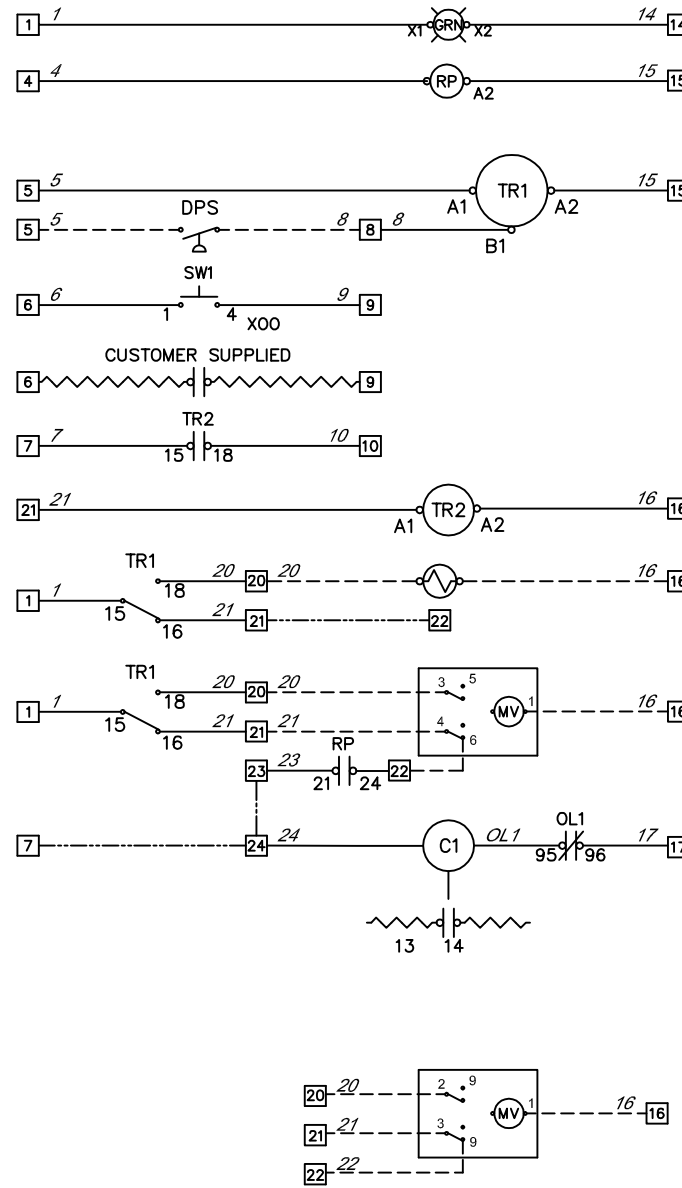
MAX. VOLTAGE: 600V  
MAX. AMPERES: 39.00A

POWER	POWER	460V/3~ /60HZ
	TOTAL FLA	34.33 AMPS
	SCCR	5 kA RMS SYMMETRICAL, 600V MAX.
	LARGEST MTR.	25 HP

ENCLOSURE	STANDARD	UL 508A
	SIZE	12"L x 10"W x 6"D
	UL RATING	TYPE 4X
	MATERIAL	POLYCARBONATE

- GROUND PER 2011 NATIONAL ELECTRICAL CODE ARTICLE 250.
- PANEL WIRING: SHOP/FIELD 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.
- TB1= 5 TBA= 1 TBB= 1



POWER ON LIGHT

PUMP POWER ON

FLUSH DURATION (2 MIN)  
DIFFERENTIAL PRESSURE

LOCAL FLUSH START

REMOTE FLUSH START

CYCLE TIMER

CYCLE TIMER (0.05S-60HRS)  
FLUSH VALVE OPTIONS (SHOP TO ADD JUMPER FROM TB21 TO TB22 IF SOLENOID FLUSH VALVE IS USED)

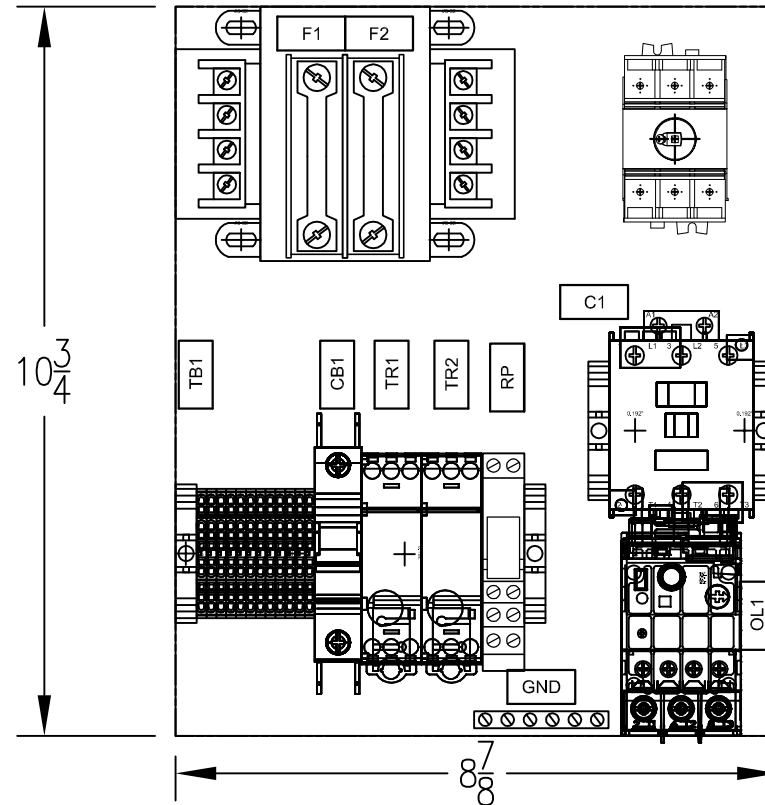
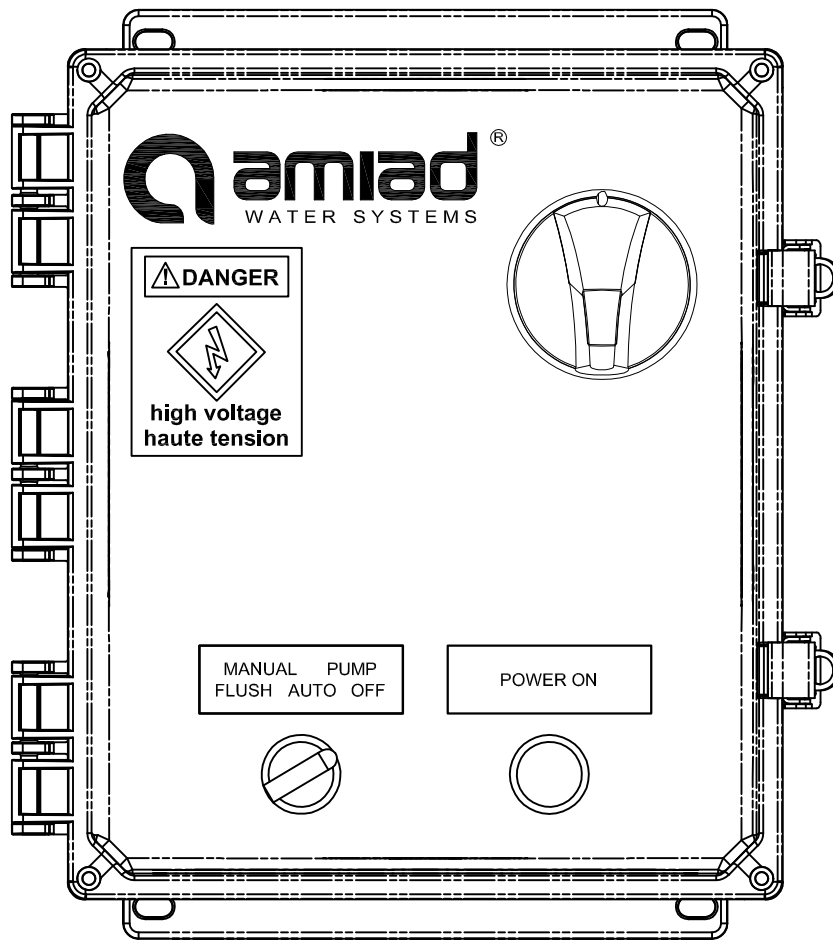
SYSTEM PUMP (REMOVE JUMPER FROM TB7 TO TB24 FOR EXTERNAL SOURCE FLUSH; REMOVE MECHANICAL JUMPER FROM TB23 TO TB24 FOR SYSTEM FLUSH)

MOTOR ON DRY CONTACTS

OPTIONAL BRAY ACTUATOR

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6 05/18/2018 MOTOR CURRENT CALCULATIONS RAM	DRAWING DATE: 05/09/2014
5 10/5/2017 DELETE COUNTER RAM	DRAWING TITLE: 1F 460V/3~ UNI/SOL PEP 16.01-40A WIRING DIAGRAM
4 08/31/2016 ADD COUNTER, FIX PUMP "SOURCE" POWER RAM	DRAWING NUMBER: 720102-002093-ELC
3 07/27/2015 ADD OPTIONAL BRAY ACTUATOR RAM	SCALE: 1" = 1"
2 07/10/2014 MOTOR CONTROL CEH	SHT. 1 of 2
1 06/03/2014 WIRE LABELS JTE	DRAWN BY: JTE
NO. DATE NOTES BY	CHKD BY: ---
GENERAL REVISIONS	
APP. BY: ---	
CATALOG NUMBER: 720102-002093	
GENERAL TOLERANCES (EXCEPT AS NOTED)	
ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05°, 3PL±0.010"	



UPPER LEVEL

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

LOWER LEVEL

**NOTE**

- ALL HARDWARE WILL INCLUDE ONE MECHANICAL LOCK AND A FLAT WASHER.
- THE ONLY EXCEPTION IS IF THE MECHANICAL SCREW IS A SELF-THREADING SCREW.
- 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.
- ALL HARDWARE HAS TO THREAD AT LEAST TWO COMPLETE TURNS THROUGH THE NUT/THREADED HOLE
- IF VISIBLE, NO HARDWARE WILL EXTEND PAST THREE THREADS OUT OF THE NUT/THREADED HOLE.
- BACKPLANE AND DEAD FRONT IF REQUIRED ARE TO BE GROUNDED ACCORDING NEC 70E.
- 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: 05/09/2014	DRAWING TITLE: 1F 460V/3~ UNI/SOL PEP 16.01-40A WIRING DIAGRAM				
SCALE: 1" = 3"	DRAWING NUMBER: 720102-002093-ELC				
SHT. 2 of 2	REV. NO. 5				
DRAWN BY: JTE	CATALOG NUMBER: 720102-002093				
NO. DATE	NOTES	BY	CHKD BY: ---	GENERAL TOLERANCES (EXCEPT AS NOTED)	ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05", 3PL±0.010"
GENERAL REVISIONS					
APP. BY: ---					