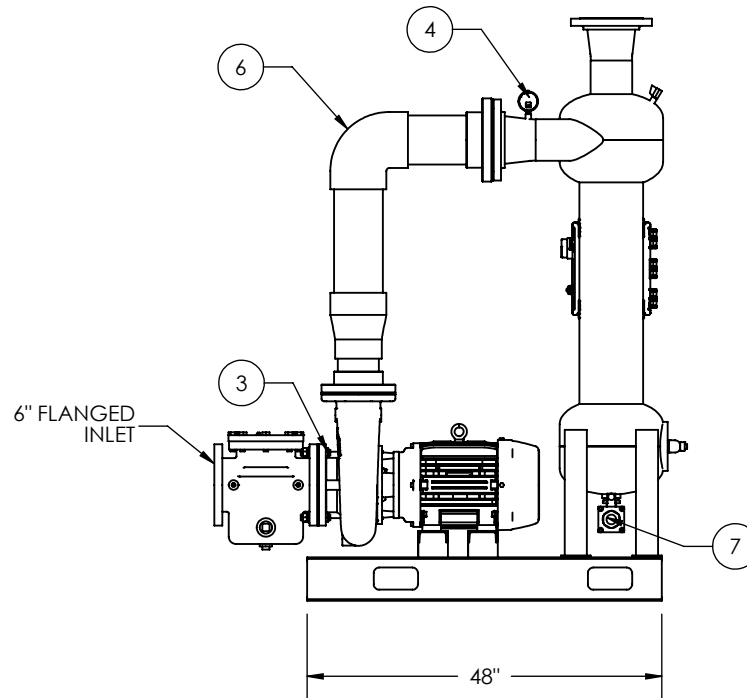
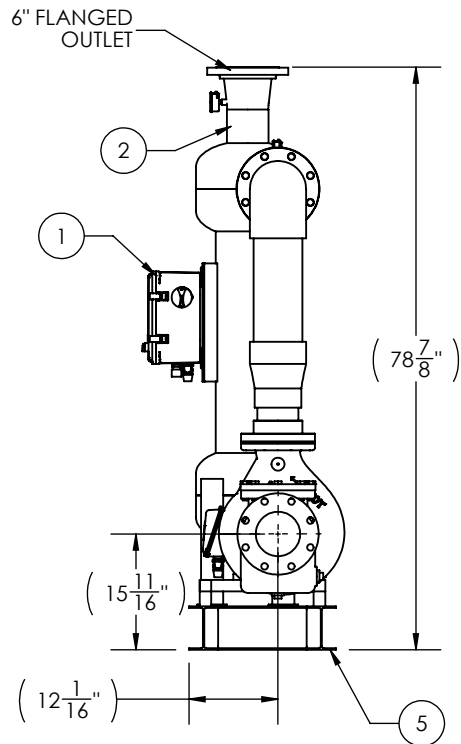


NOTES

- 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: 1299 LBS
OPERATING: 1756 LBS



#	COMPONENT
1	NEMA 4X, UL, 460V/3PH/60Hz CONTROL PANEL
2	SEPARATOR: 5" ICS, EPOXY COATED CARBON STEEL
3	PUMP: 15HP 1750RPM, 460/3/60, 850 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

120-J TALBERT ROAD
MOORESVILLE, NC 28117
PH: (704) 662-3133
FAX: (704) 662-3155

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DRAWING DATE: 10/6/2017	DRAWING TITLE: ICS 850 GPM LH WITH FACE PIPING AND PUMP
SCALE: 1:26	DRAWING NUMBER: ASY-850GPM LH-S
SHEET 1 OF 2	CAT NUMBER: ASY-850GPM LH REV. NO. 0
DRAWN BY: MAV	GENERAL TOLERANCES (EXCEPT AS NOTED)
CHECKED BY: SAL	ANGULAR ± 1° FRACTIONAL ± 1/8" Dec: 2 PL ± 0.05", 3 PL ± 0.010"
APPROVED BY: _____	

NO.	REVISION NOTES	DATE	BY

5

4

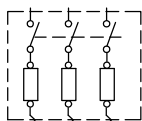
3

2

1

575V/3 ϕ /60 Hz

L1 L2 L3

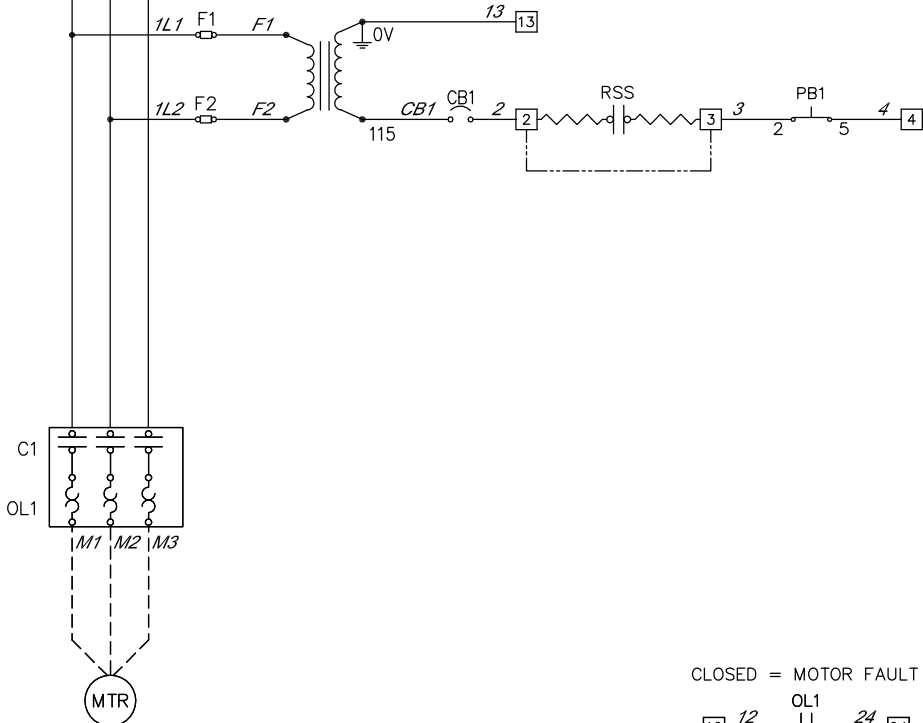


MAIN DISCONNECT AND BRANCH CIRCUIT PROTECTION PROVIDED BY OTHERS (MAXIMUM OF 70A DUAL TIME DELAY FUSE OR 100A INVERSE TIME BREAKER RECOMMENDED)

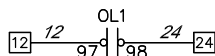
150VA TRANSFORMER		
Voltage	Fuse	Location
575	1A	H1-H2

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

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



CLOSED = MOTOR FAULT



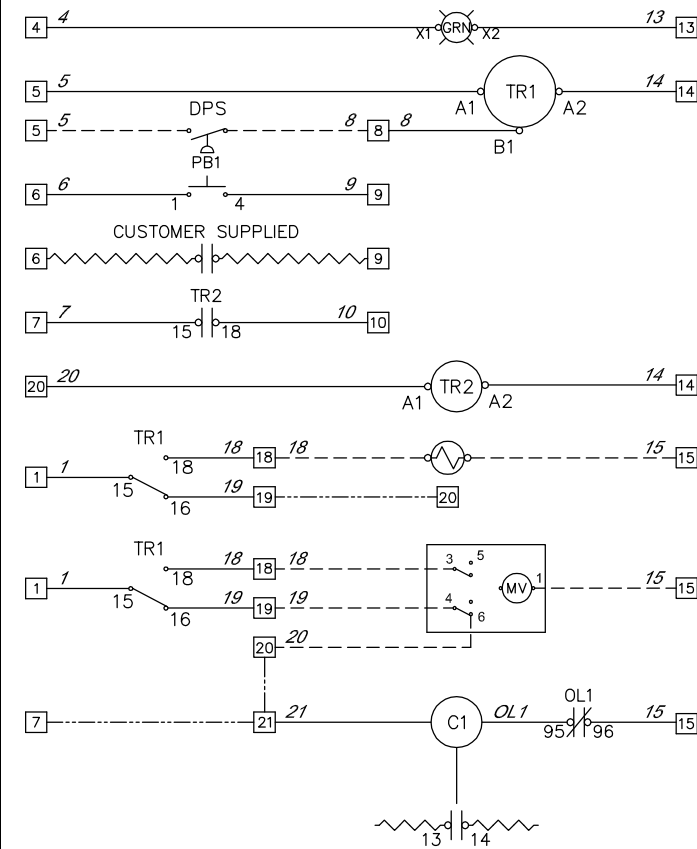
MAX. VOLTAGE: 600V
MAX. AMPERES: 39.00A

POWER	POWER	575V/3 \sim /60HZ
	TOTAL FLA	40 AMPS
	SCCR	5 kA RMS SYMMETRICAL, 600V MAX.
	LARGEST MTR.	35 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)



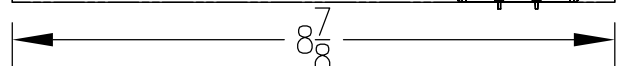
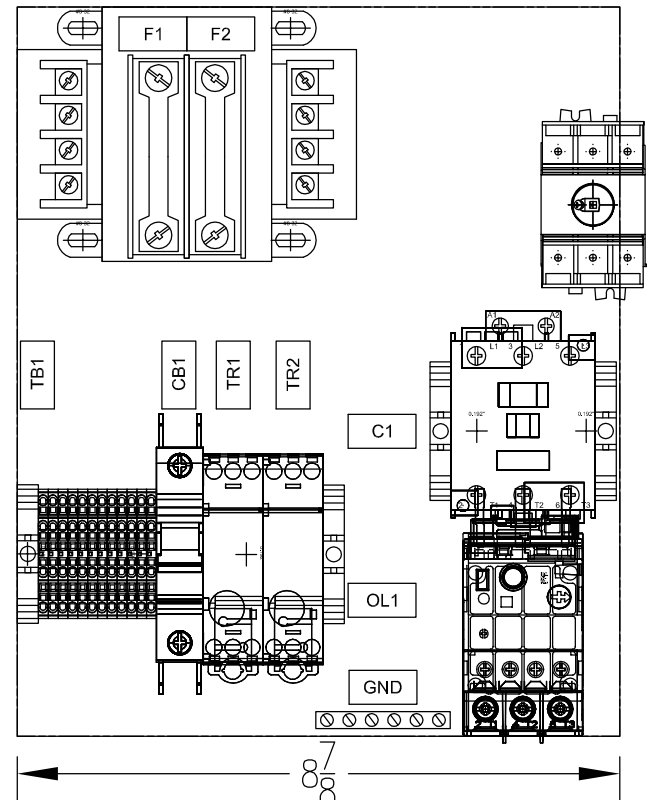
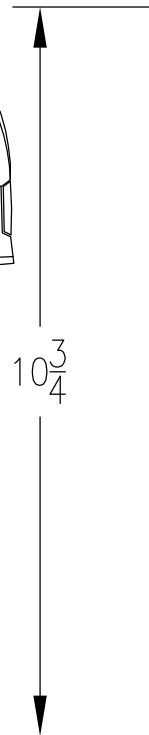
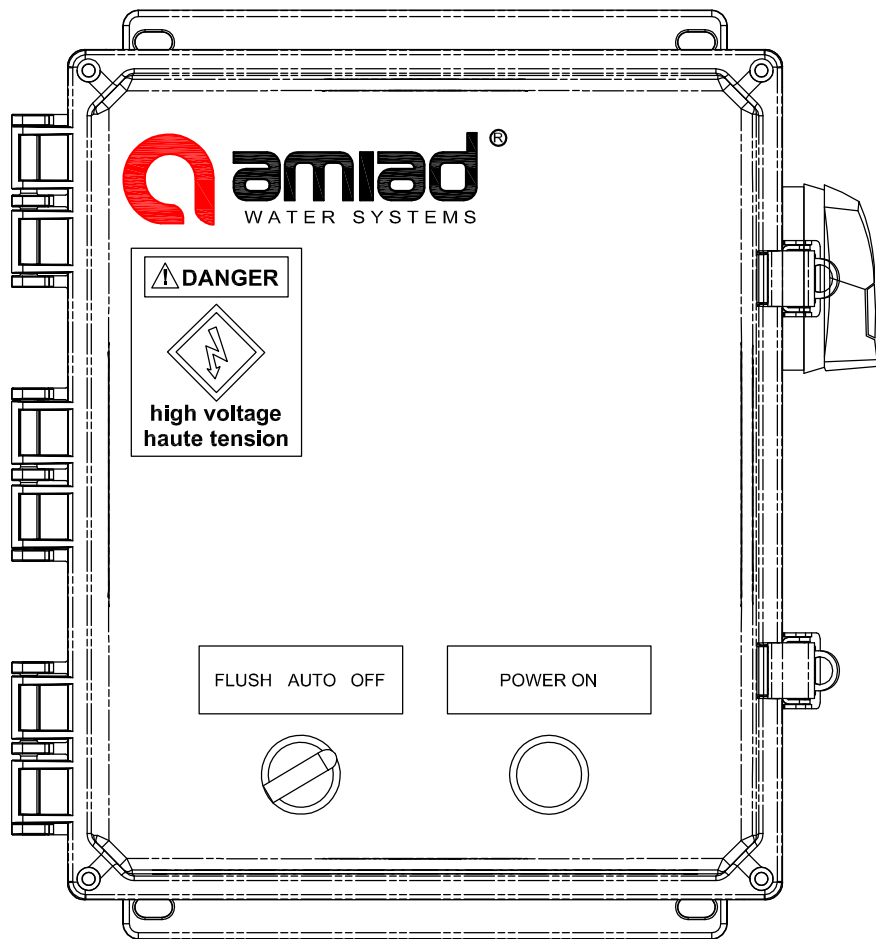
- POWER ON
- FLUSH DURATION (2 MIN)
- DIFFERENTIAL PRESSURE
- FLUSH
- REMOTE START
- CYCLE TIMER
- CYCLE TIMER (0.05S-60HRS)
- FLUSH VALVE OPTIONS (SHOP TO ADD JUMPER FROM TB19 TO TB20 IF SOLENOID FLUSH VALVE IS USED)
- SYSTEM PUMP (REMOVE JUMPER FROM TB7 TO TB21 FOR EXTERNAL SOURCE FLUSH; REMOVE MECHANICAL JUMPER FROM TB20 TO TB21 FOR SYSTEM FLUSH)
- MOTOR ON DRY CONTACTS



120-J TALBERT ROAD
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DRAWING DATE: 05/09/2014		DRAWING TITLE: 1F 575V/3 \sim UNI/SOL PEP 16.01-40A WIRING DIAGRAM	
SCALE: 1" = 1"		DRAWING NUMBER: 720102-002095-ELC	
SHT. 1 of 2		REV. NO. 2	
DRAWN BY: JTE		CATALOG NUMBER: 720102-002095	
NO.	DATE	NOTES	BY
GENERAL REVISIONS			
CHKD BY: ---		GENERAL TOLERANCES (EXCEPT AS NOTED)	
APP. BY: ---		ANGULAR $\pm 1^\circ$ FRACTIONAL $\pm 1/8"$ DEC: 2PL $\pm 0.05"$, 3PL $\pm 0.010"$	



UPPER LEVEL

LOWER LEVEL

TB1

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

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 575V/3~ UNI/SOL PEP 16.01-40A WIRING DIAGRAM
SCALE: 1" = 3"	DRAWING NUMBER: 720102-002095-ELC
SHT. 2 of 2	REV. NO. 0
DRAWN BY: JTE	CATALOG NUMBER: 720102-002095
CHKD BY: ---	GENERAL TOLERANCES (EXCEPT AS NOTED)
APP. BY: ---	ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05", 3PL±0.010"

NO.	DATE	NOTES	BY
GENERAL REVISIONS			