

NOTES

- 1) ALL DIMENSIONS GIVEN IN INCHES UNLESS OTHERWISE SPECIFIED.
- 2) DESIGN CONDITIONS:  
 MAX PRESSURE 115 PSI  
 MAX TEMPERATURE 140 °F  
 43 GPM @ 70' TDH
- 3) APPROXIMATE MASS: 382 LBS (DRY)

#	COMPONENT
1	NEMA 4X, UL, 460V/3PH/60Hz CONTROL PANEL
2	FILTER: 3" TAF-750, 50 MICRON SCREEN
3	PUMP: 3HP 3600RPM, 460/3/60, 43 GPM @ 70' TDH
4	PURGE: 1-1/2" MNPT
5	BASE: EPOXY COATED CARBON STEEL
6	FACE PIPE: 3" 304SS

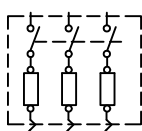
**amiad** WATER SYSTEMS  
 120-J TALBERT ROAD  
 MOORESVILLE, NC 28117  
 PH: (704) 662-3133  
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DRAWING DATE: 8/4/2016	DRAWING TITLE: FILTER SKID 3" TAF-750 WITH PUMP AND CONTROLS
SCALE: 1:16	DRAWING NUMBER: <b>700301-000035</b>
SHEET 1 OF 2	CAT NUMBER: 700301-000035   REV. NO. 0
DRAWN BY: MAV	CHECKED BY: SAL
APPROVED BY: _____	GENERAL TOLERANCES (EXCEPT AS NOTED) 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

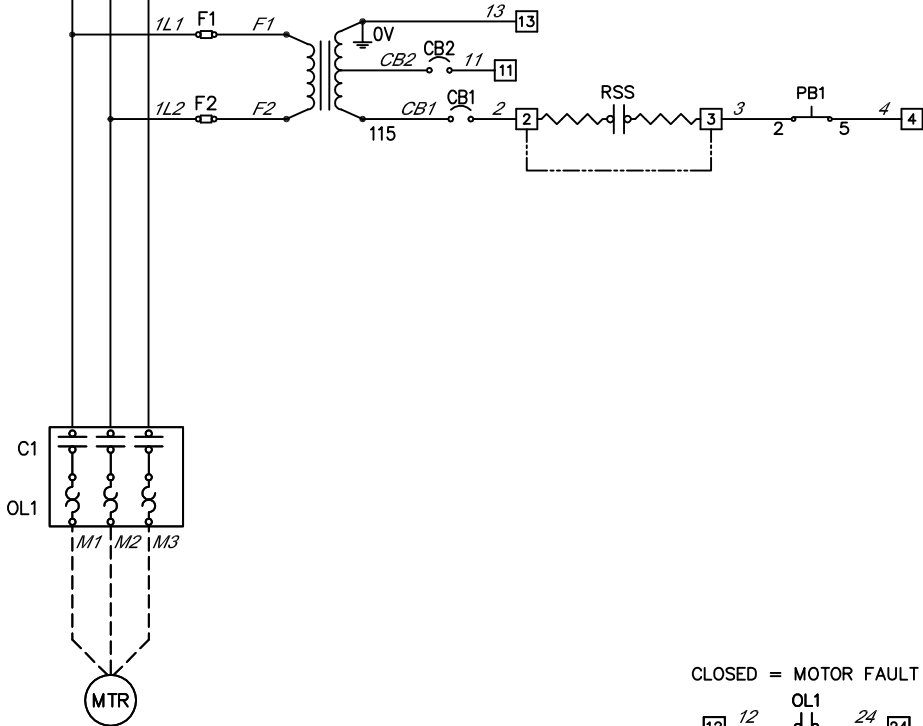


MAIN DISCONNECT AND BRANCH CIRCUIT PROTECTION PROVIDED BY OTHERS (MAXIMUM OF 29A DUAL TIME DELAY FUSE OR 42A INVERSE TIME BREAKER RECOMMENDED)

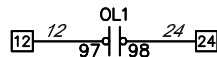
150VA TRANSFORMER		
Voltage	Fuse	Location
460	1A	H1-H4
230	2A	H2-H4
208	2A	H3-H4

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

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



CLOSED = MOTOR FAULT



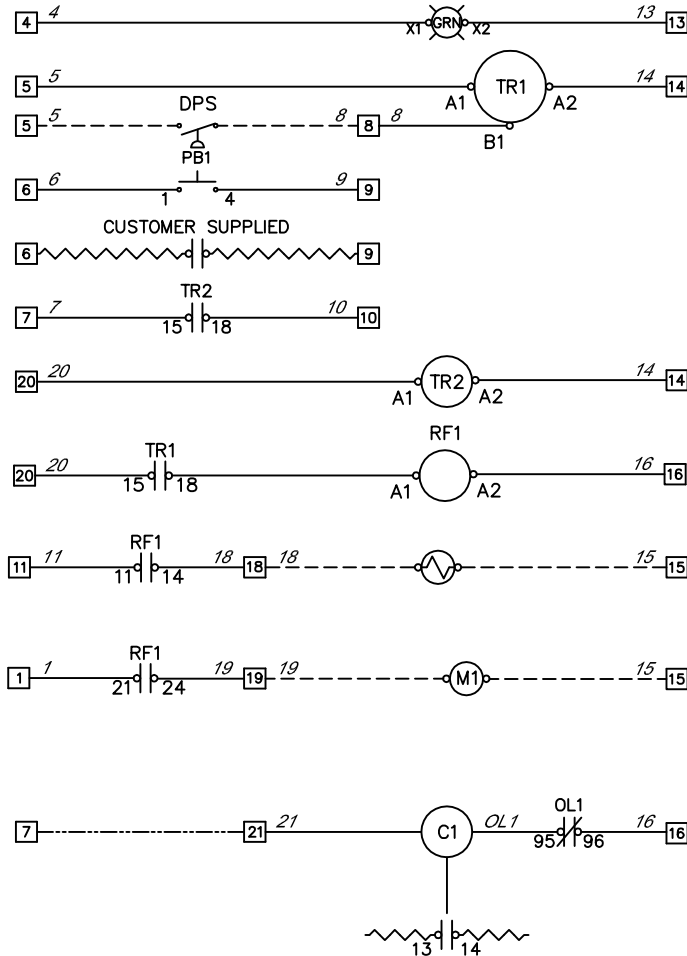
MAX. VOLTAGE: 600V  
MAX. AMPERES: 16A

POWER	POWER	460V/3~ /60HZ
	TOTAL FLA	16.33 AMPS
	SCCR	5 KA RMS SYMMETRICAL, 600V MAX.
	LARGEST MTR.	15 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]



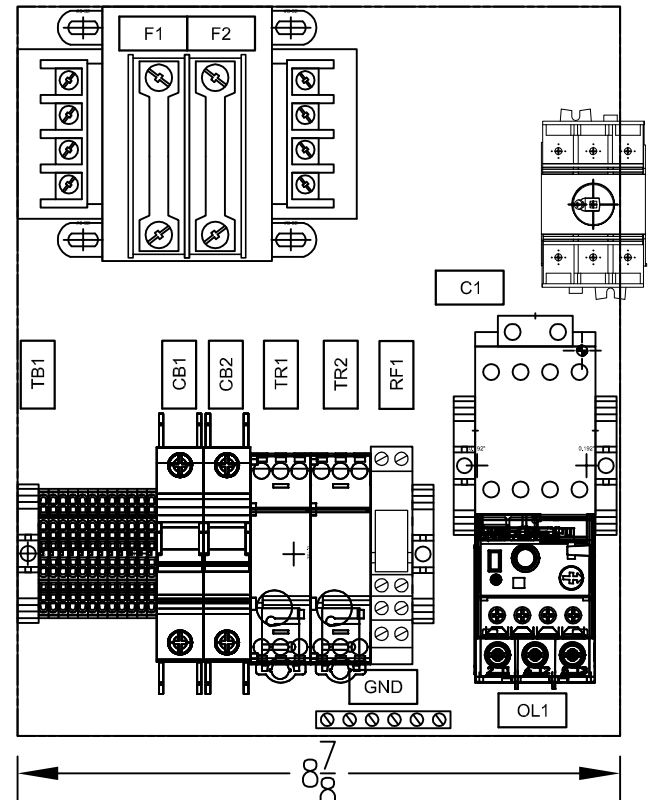
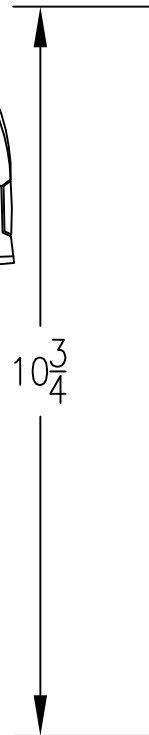
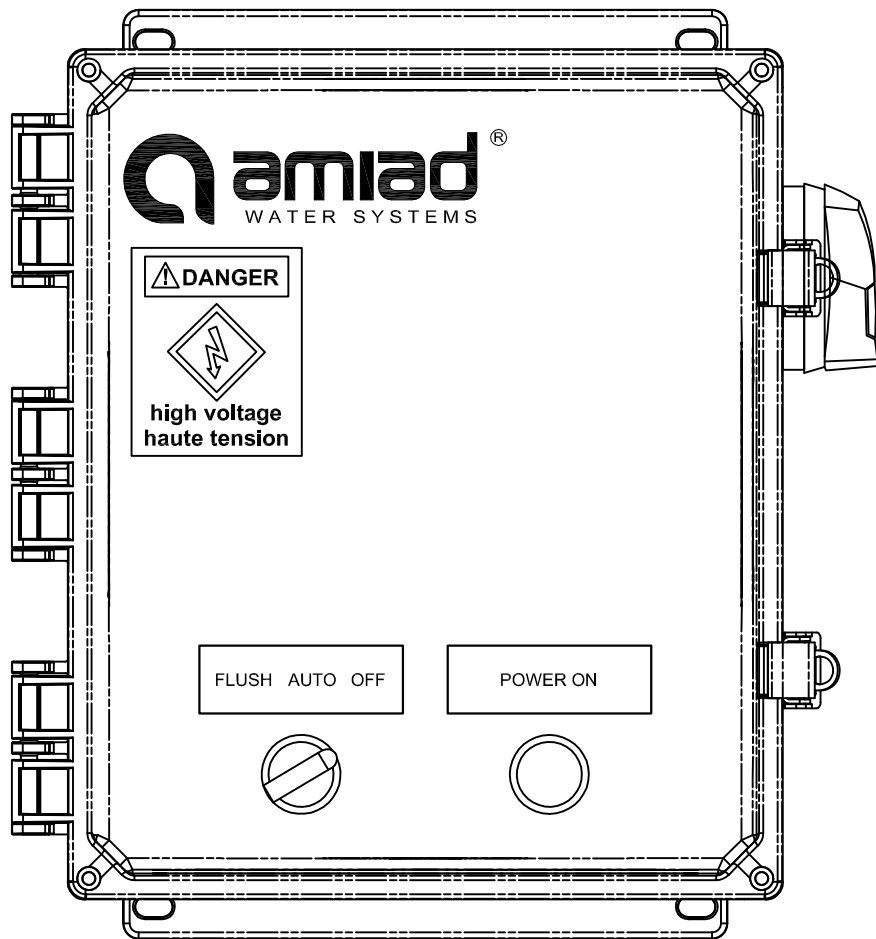
- POWER ON
- FLUSH DURATION (2 MIN)
- DIFFERENTIAL PRESSURE (OPTIONAL)
- FLUSH
- REMOTE START
- CYCLE TIMER
- CYCLE TIMER (0.05S-60HRS)
- FLUSH IN PROGRESS
- FLUSH VALVE
- DRIVE MOTOR
- SYSTEM PUMP
- MOTOR ON DRY CONTACTS

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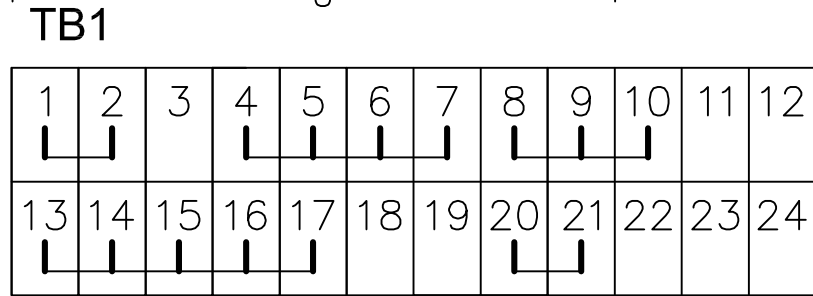
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DRAWING DATE: 05/09/2014	DRAWING TITLE: 1F 460V/3~ TAF 3.2-16A WIRING DIAGRAM
SCALE: 1" = 1"	DRAWING NUMBER: 720102-000659-ELC
SHT. 1 of 2	REV. NO. 0
DRAWN BY: RAM	CATALOG NUMBER: 720102-000659
CHKD BY: ---	GENERAL TOLERANCES (EXCEPT AS NOTED)
APP. BY: ---	ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05", 3PL±0.010"

NO.	DATE	NOTES	BY
GENERAL REVISIONS			



UPPER LEVEL  
LOWER LEVEL



- 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: 05/09/2014	DRAWING TITLE: 1F 460V/3~ UNI/SOL PEP 3.2-16A WIRING DIAGRAM
SCALE: 1" = 3"	DRAWING NUMBER: 720102-002083-ELC
SHT. 2 of 2	REV. NO. 0
DRAWN BY: JTE	CATALOG NUMBER: 720102-002083
NO. DATE	NOTES
GENERAL REVISIONS	
CHKD BY: ---	GENERAL TOLERANCES (EXCEPT AS NOTED)
APP. BY: ---	ANGULAR ±1° FRACTIONAL ± 1/8" DEC: 2PL±0.05", 3PL±0.010"