■ Surge Protection
For *Business-Critical Continuity™*

PowerSure™ FAS-120AC

120 VAC Medium Duty (Parallel) AC Hardware

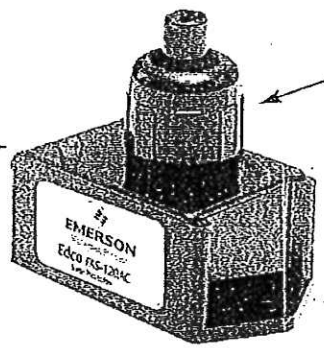
The PowerSure FAS-120AC surge suppressor is designed to protect AC distribution panel circuits or 120V power supplies feeding sensitive electronic equipment. Electrically, the unit incorporates MOV and thermal fusing technology. The PowerSure FAS-120AC is designed to be installed in parallel on standard single phase 120 VAC (L,N,G) circuits.

General Technical Specifications

Operating Voltage	120 VAC
Total Peak Surge Current	15.5 kA (8 x 20 µs)
Short Circuit Current Rating	5kAIC
Location Type	Type 2
I-Nominal	3kA
UL 1449 VPR Rating	700V (L-N, L-G), 900V (N-G)
Operating Current	NA, Parallel
Operating Frequency	47-63 Hz
EMI Attenuation (100 kHz to 100 MHz)	>25 dB
SPD Technology	Metal Oxide Varistors (MOVs)
Modes of Protection	Line-to-Neutral, Line-to-Ground, Neutral-to-Ground
Status Indication	Power On & MOV Functional
Connection Type	#14 Wire Leads, 12" Long
Operating Temperature	-40°C to +85°C
Dimensions (Inches)	2.5H x 1.5W x 3.0L
Weight	4.2 oz
Certifications	ANSI/UL1449 Third Edition

Features

- LED indicator
- Fast response time
- Thermal fuse
- L-G, L-N & N-G protection
- Compact size
- Liquid tight conduit fitting
- ANSI/UL 1449 Third Edition
- 5 year warranty



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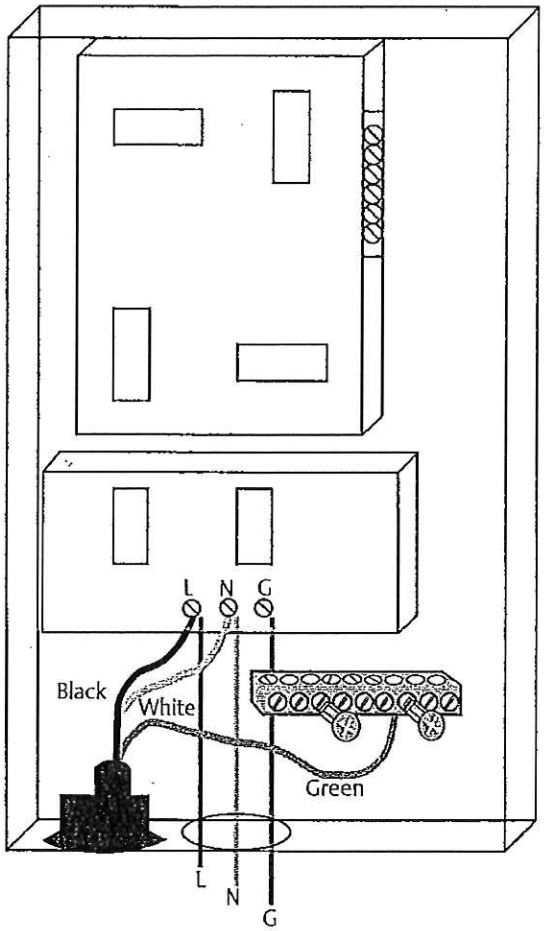
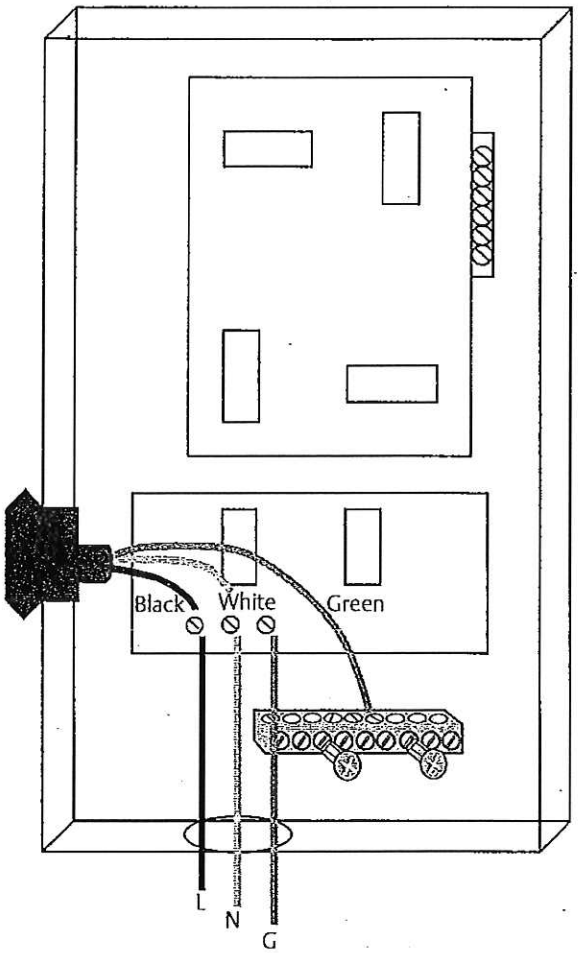
Installation

Mounting Inside Fire/Security Panel



A ground bus can be installed in cabinet to provide a single point ground.

Mounting Outside (closed nipple 3/4") Fire/Security Panel



Installation can be close-nipple up to a distribution panel/circuit or hardwired in parallel up to power supply input terminal screws. Be sure to dress leads as short as possible.

Emerson Network Power.
The global leader in enabling *Business-Critical Continuity™*.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- Embedded Power
- Monitoring
- Outside Plant
- Power Switching & Control
- Precision Cooling
- Racks and Integrated Cabinets
- Services
- Surge Protection

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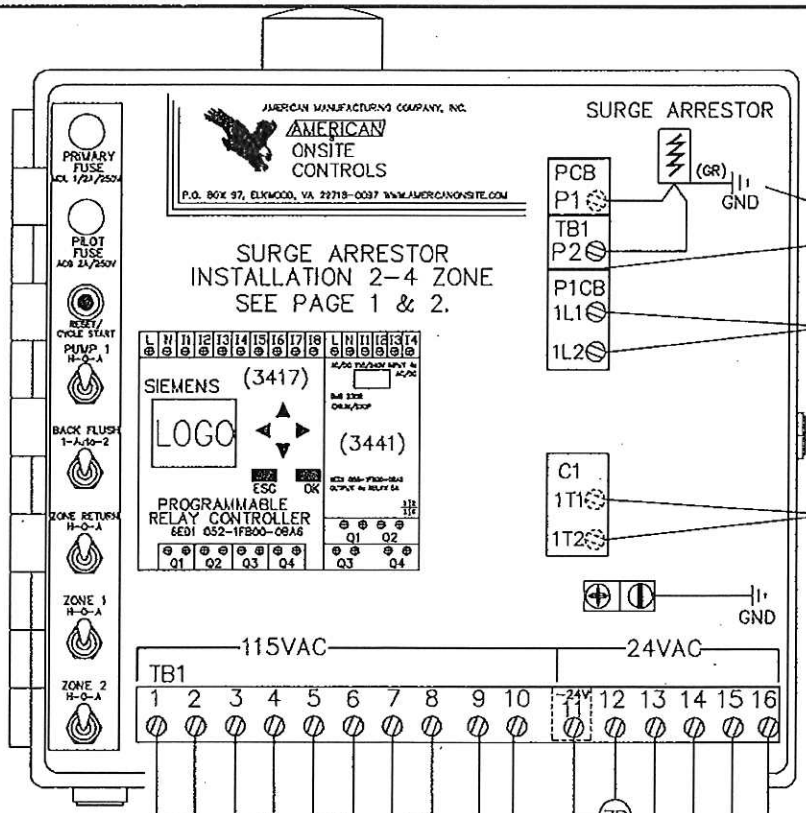
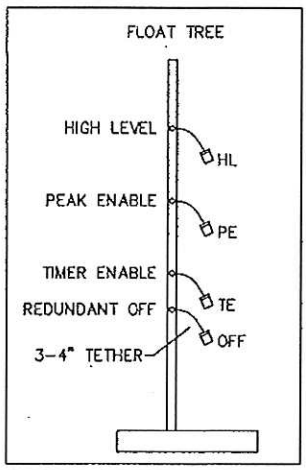
AMERICAN ONSITE CONTROLS

AMERICAN MANUFACTURING COMPANY INC.
P.O. BOX 97 ELKWOOD, VA 22718
(800) 345-3132 www.americanonsite.com



ALL BRANCH CIRCUIT PROTECTION PROVIDED BY OTHERS



2 ZONE HYDRULIC UNIT WIRE COLORS	
	WHITE-COMMONS INTO 24-
ZR=(BK)-BLACK	(WH/BKS)-WHITE/BLACK STRIPE
F1=(PP)-PURPLE	(WH)-WHITE
F2=(OR)-ORANGE	(BR)-BROWN
Z1=(BL)-BLUE	(WH/BLS)-WHITE/BULE STRIPE
Z2=(RD)-RED	(WH/RDS)-WHITE/RED STRIPE

TERMINALS:	WIRE SIZE:	TORQUE:
P1:	4-6awg	27 in-lbs
	8awg	25 in-lbs
	10-14awg	20 in-lbs
1L1-1L2	4-6awg	27 in-lbs
	8awg	25 in-lbs
	10-14awg	20 in-lbs
1T1&1T2	8-18awg	22 in-lbs
TB1 P2	8-22awg	18-20 in-lbs
TB1 1-16	10-22awg	7-8 in-lbs

NOTES:

1. PLEASE REVIEW ALL PAGES AND INSERTS IN THIS MANUAL BEFORE ATTEMPTING TO INSTALL ANY CONTROL EQUIPMENT.
2. DASHED LINES REPRESENT OPTIONAL EQUIPMENT
3. TIME DOSING IS CONTROLLED BY A SIEMENS LOGO! SEE ADDITIONAL MANUAL FOR PROGRAMMING INSTRUCTIONS.
4. BF=BACKFLUSH, AND ZR=ZONE RETURN

2 ZONE TIME DOSING "QUALITY MONITORING"

INSTALLATION GUIDE FOR "DP0" SERIES TIME DOSE "QM" CONTROL
NEMA 4X, 1 PHASE, OPTIONS: A,J,L

MODEL#: DP022-SAB124-AJL		
DWG#: X9114-2Z		REVISION A
DATE: 04/05/12	DRAWN BY: SPC	APPROVED
FILE PATH: S:/DATA/CONTROLS/AUTOCAD2000LT/X&LIGHTNING/X9114-2ZN.dwg		PAGE 1

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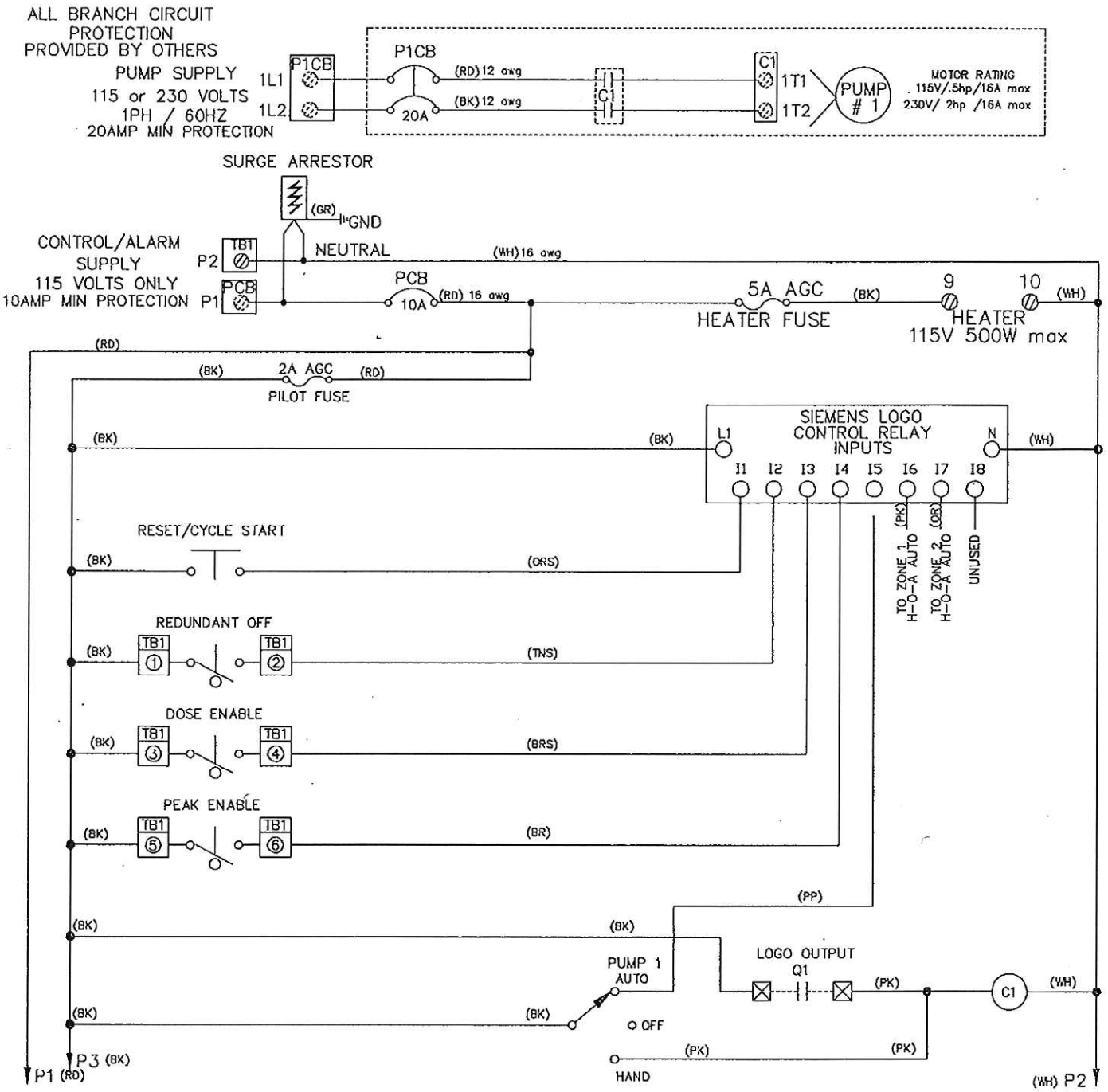
WIRING/ INSTALLATION SCHEMATIC

NOTE:
ALL WIRES ARE 18 awg UNLESS OTHERWISE NOTED.



POWER SUPPLY INSTALLATION NOTES:

1. DASHED LINES (– – –) REPRESENT TERMINALS, EQUIPMENT, AND/OR OPTIONS THAT MAY OR MAY NOT BE PRESENT IN EACH SYSTEM COVERED BY THIS MANUAL.
2. BRANCH CIRCUIT PROTECTION MUST BE PROVIDED BY OTHERS. CONSULT NEC AND/OR LOCAL CODES.
3. SINGLE (1) PHASE PUMP MOTORS MUST HAVE INTEGRAL THERMAL OVERLOAD PROTECTION.
4. TEMPERATURE RATING OF FIELD INSTALLED COPPER CONDUCTORS MUST BE AT LEAST 140°F (60°C).
5. FOR PUMPS THAT REQUIRE EXTERNAL CAPACITOR INSTALLATION KITS, SEE K" PACK INSTALLATION INSERT PROVIDED
6. PUMP SUPPLY MUST MATCH REQUIRED PUMP VOLTAGE. CONDUIT ENTRANCE MUST MATCH ENCLOSURE RATING
7. PUMP AND PANEL VOLTAGE CODE MUST BE EQUVALENT TO INCOMING PUMP AND CONTROL POWER SUPPLIES.
8. OVERLOAD/MOTOR PROTECTOR UNIT MAY REQUIRE ADJUSTMENT TO MATCH PUMP FULL LOAD AMPS (FLA)
9. SEPARATE OVERLOAD (O.L.) NOT REQUIRED WHEN MOTOR PROTECTORS (MP) ARE SUPPLIED.
10. THE MANUFACTURER RECOMMENDS THAT CONTROL/ALARM SUPPLY BE SEPARATE FROM THE PUMP SUPPLY.
11. REFER TO BACKPLATE LAYOUT ON PAGE 5 FOR THE REQUIRED TORQUE SETTINGS FOR EACH COMPONENT.

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