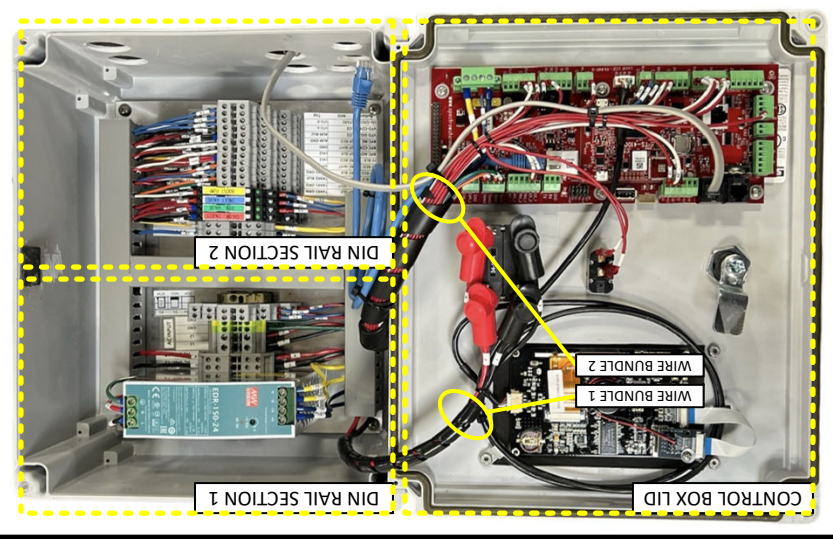


- Control System:
 - V3.0 Firmware
 - 220V Input Voltage
- Applicable System Numbers:
 - LB-1,800C-220V
 - LB-2,800C-220V
 - LB-4,000C-220V

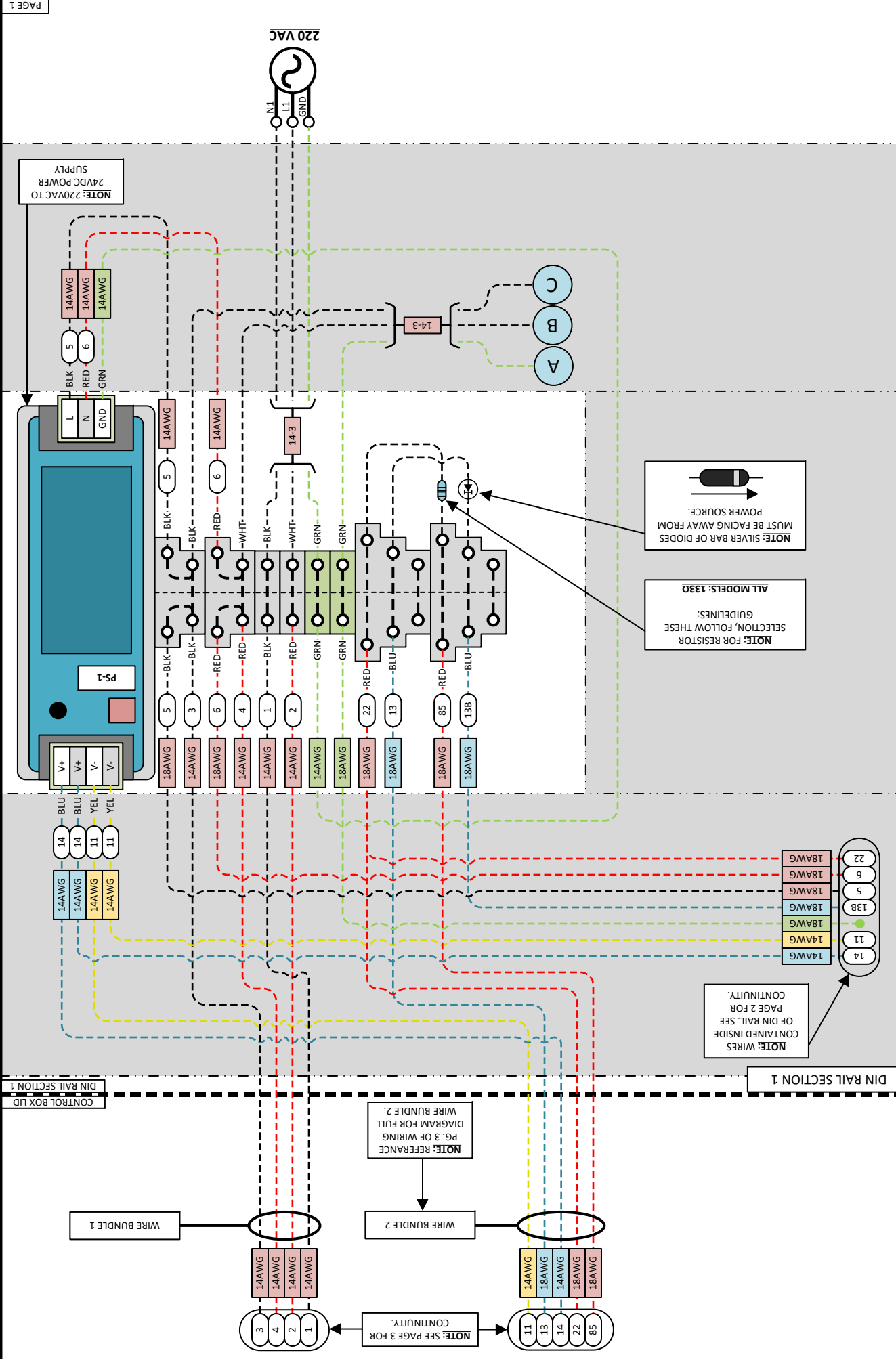
Rev No:	A	Initial Wiring Diagram for Control Landbased-1,800/2,800/4,000 Systems, 220V
Date:	02/17/2023	
Description:		
Revision History:	LB-1,800/2,800/4,000C-220V	
Landbased-1,800/2,800/4,000C-220V		
Rev Date:	02/17/2023	
Print Date:	02/17/2023	
Drawn by:	LSS	
Revision:	A	
Katadyn Desalination		



Detail View 1: Control Box Section Identification

WIRE COLOR LABEL - INDICATES A BLACK WIRE	BLK
WIRE COLOR LABEL - INDICATES A RED WIRE	RED
WIRE COLOR LABEL - INDICATES A WHITE WIRE	WHT
WIRE COLOR LABEL - INDICATES A GREEN WIRE	GRN
WIRE COLOR LABEL - INDICATES A YELLOW WIRE	YEL
WIRE COLOR LABEL - INDICATES AN ORANGE WIRE	ORG
WIRE COLOR LABEL - INDICATES A BLUE WIRE	BLU
WIRE GAUGE LABEL - INDICATES A GAUGE FOR A SINGLE WIRE	18AWG
WIRE GAUGE LABEL - INDICATES A GAUGE FOR A CABLE OF MULTIPLE WIRES, FORMATED AS (WIRE GAUGE)-(NUMBER OF WIRES IN CABLE)	18-2
CATS ETHERNET CONNECTION PORT	
USB CONNECTION PORT	
LCD-JST CONNECTION PORT	
FUSE - NECESSARY SIZING INFORMATION CALLED OUT ON WIRING DIAGRAM	
CABLING - JST AND CAT5 PRE-FABRICATED CABLES	
WIRING - SINGLE WIRE BLACK OR WHITE - TYPICAL COMM COLOR	
WIRING - SINGLE WIRE RED - TYPICAL ENERGIZED COLOR	
WIRING - SINGLE WIRE YELLOW - TYPICAL NEUTRAL COLOR	
WIRING - SINGLE WIRE GREEN - TYPICAL GROUNDING COLOR	
WIRING - SINGLE WIRE ORANGE - TYPICAL POWER SIGNALING COLOR	
WIRING - SINGLE WIRE BLUE - TYPICAL POWER SIGNALING COLOR	
SECTION DIVIDER - CONTROL BOX - NOT A PHYSICAL ELEMENT	
WIRING NODE - WIRE BUTT SPICE CONNECTION	
DIODE - ELECTRICAL DIODE - CURRENT FLOW IN DIRECTION OF ARROW	
EXTERNAL POWER SOURCE - POWER EXTERNAL TO UNIT, PROVIDED TO UNIT -	
NOTATION - NOTE CALL OUT INDICATES A NOTE THAT APPLIES TO MULTIPLE AREAS OR PIECES OF HARDWARE - SMALL NUMERIC CIRCLE	1
NOTATION - WIRE CONTINUITY SYMBOL INDICATES CONTINUITY BETWEEN MATCHING ALPHABETIC SYMBOLS - LARGE ALPHABETIC CIRCLE	A
JUMPER - INDICATES PLACEMENT AND TERMINATION LOCATION FOR JUMPER - 2 OR 4 PIN - 2 PIN SHOWN	
WIRING - PASS THROUGH CONNECTOR - RJ-45/RJ-12	

List of Symbols: KEY



NOTE: PIN CONNECTIONS J, K AND L ARE OPTIONAL CONNECTIONS AVAILABLE FOR THE INCLUSION OF AN OPTIONAL BOOST PUMP

NOTE: PIN CONNECTIONS H, I, M, AND N ARE OPTIONAL CONNECTIONS AVAILABLE FOR THE INCLUSION OF AN OPTIONAL CHLORINE INJECTION

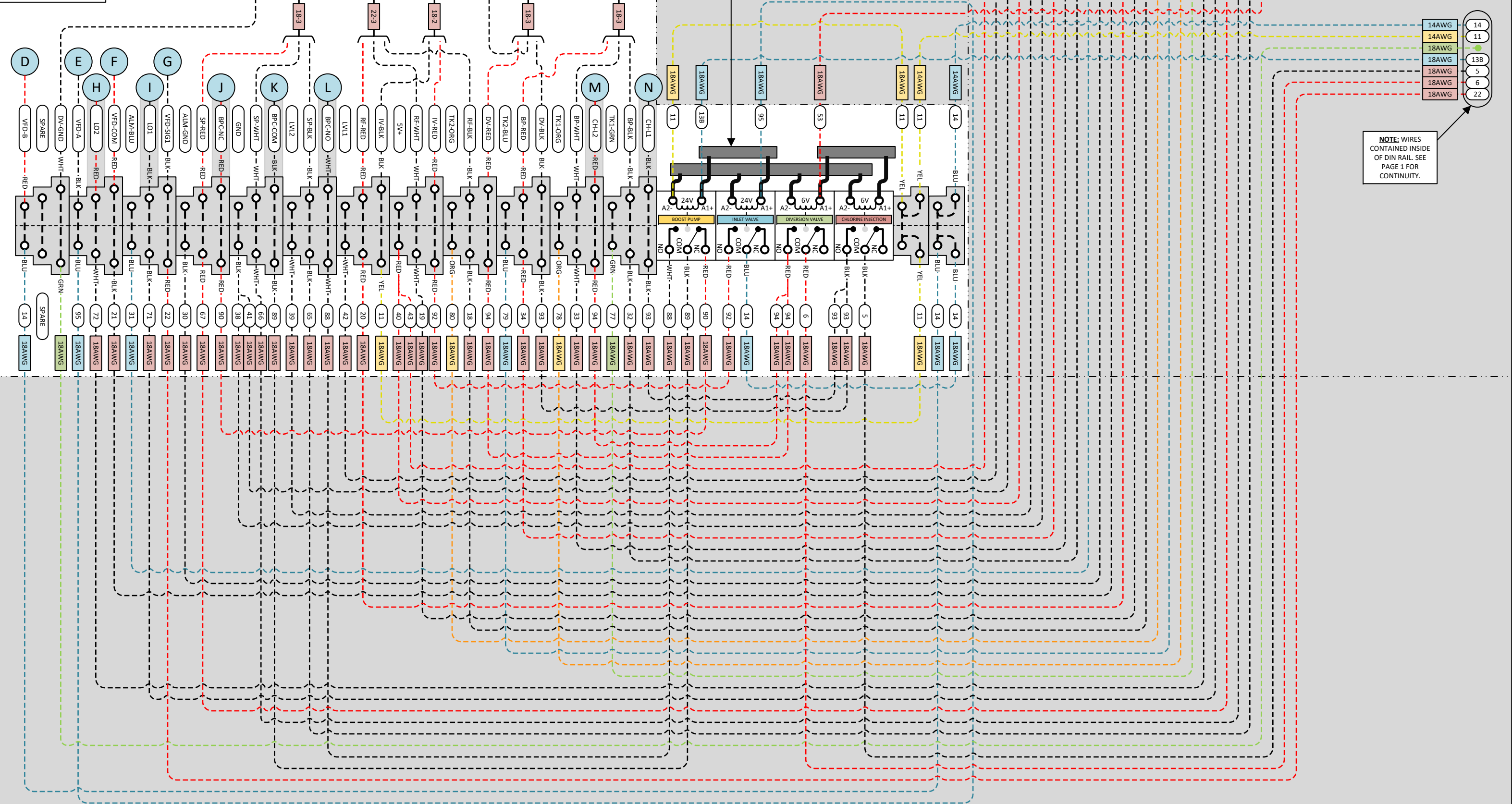
NOTE: FOLLOW SCHEMATIC FOR RELAY JUMPER LOCATIONS. JUMPERS ATTACHED DIRECTLY BELOW WIRE PIN CONNECTIONS.

NOTE: SEE PAGE 3 FOR CONTINUITY.

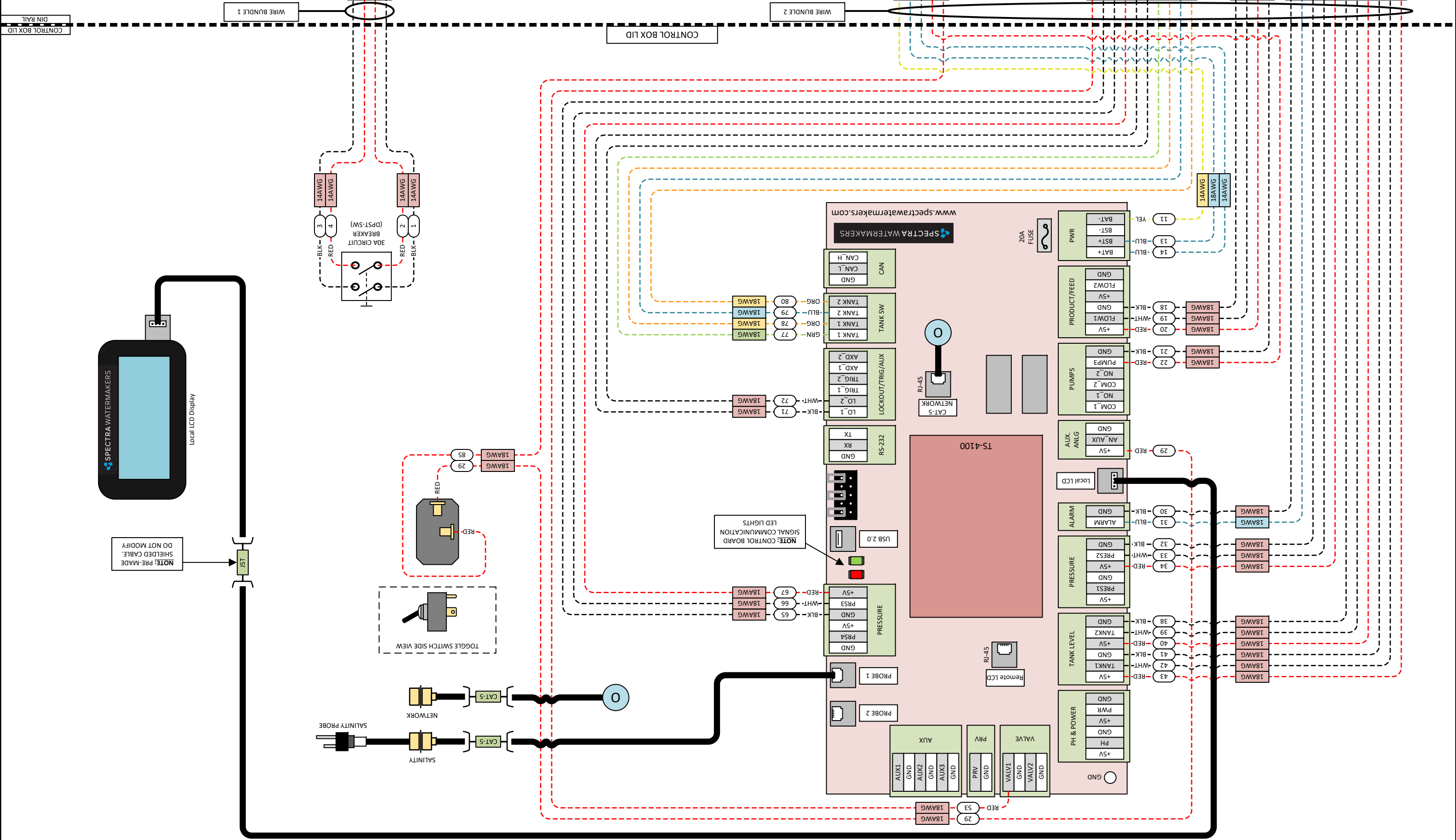
NOTE: WIRES CONTAINED INSIDE OF DIN RAIL. SEE PAGE 1 FOR CONTINUITY.

DIN RAIL SECTION 2

CONTROL BOX LID
DIN RAIL SECTION 2



CONTROL BOX LID
DIN RAIL



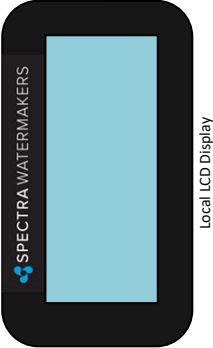
CONTROL BOX LID

WIRE BUNDLE 1

WIRE BUNDLE 2

NOTE: SEE PAGE 1 FOR CONTINUITY.

NOTE: SEE PAGE 2 FOR CONTINUITY.



NOTE: PRE-MADE SHIELDED CABLE. DO NOT MODIFY.

SALINITY PROBE

SALINITY

NETWORK

TOGGLE SWITCH SIDE VIEW

LED LIGHTS

NOTE: CONTROL BOARD SIGNAL COMMUNICATION

www.spectrawatermakers.com

TS-4100

Remote LCD

Local LCD

RS-232

LOCKOUT/TRIG/AUX

TANK SW

CAN

PUMPS

PRODUCT/FEED

PWR

PH & POWER

TANK LEVEL

VALVE

AUX

PH & POWER

TANK LEVEL

PRODUCT/FEED

PWR

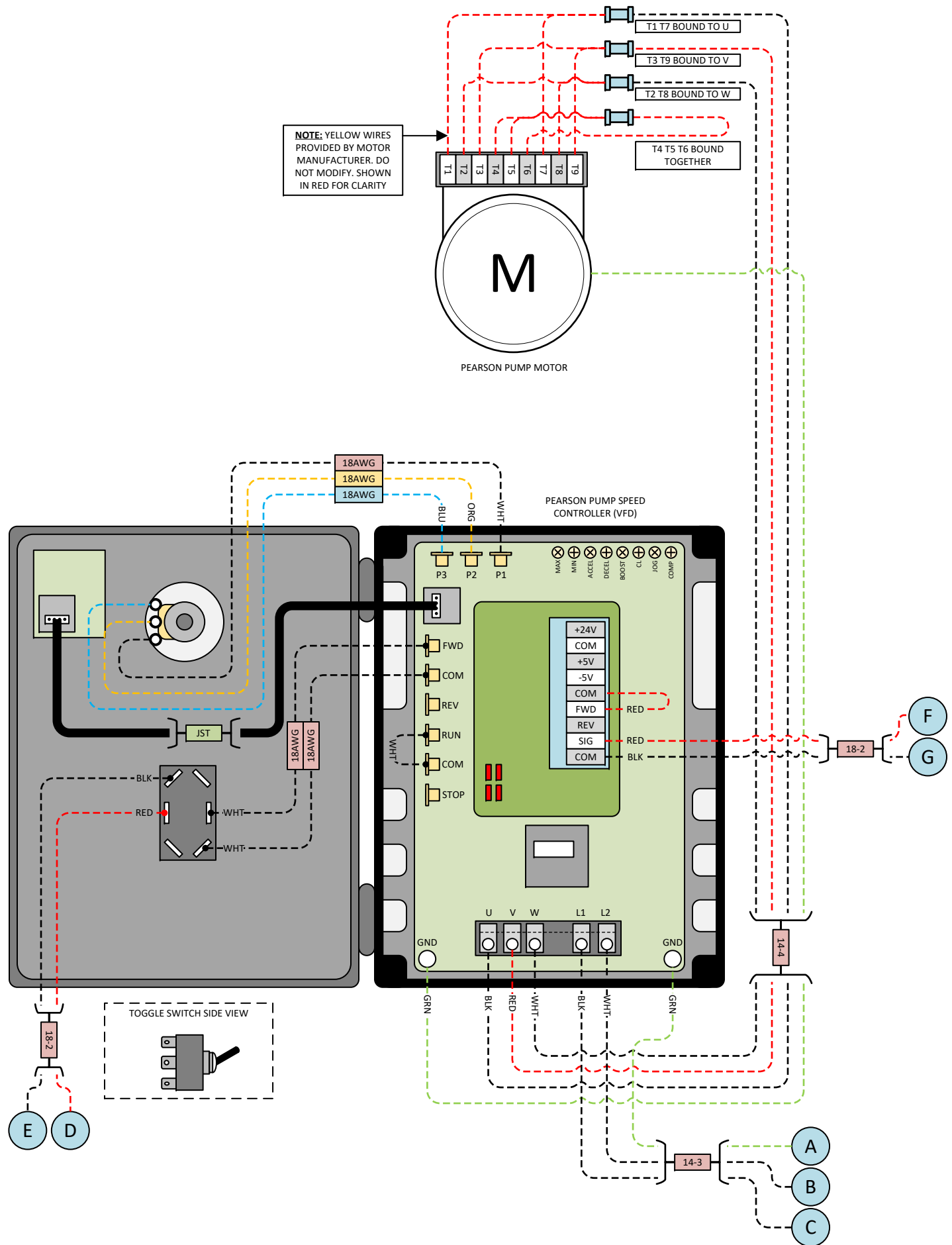
PH & POWER

TANK LEVEL

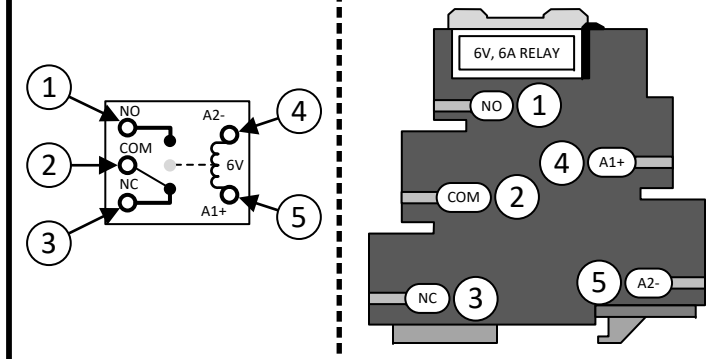
PRODUCT/FEED

PWR

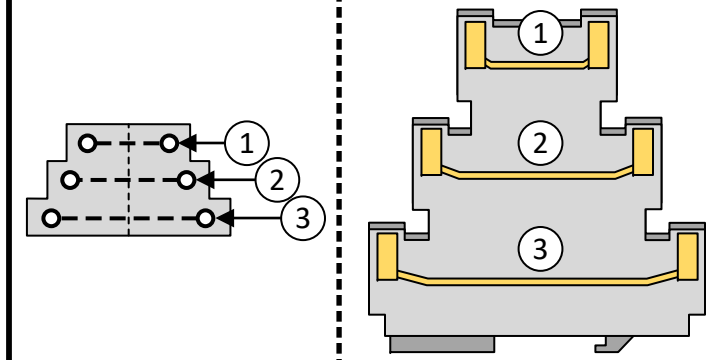
Detail View 2: Pearson Pump Motor/VFD Wiring Detail



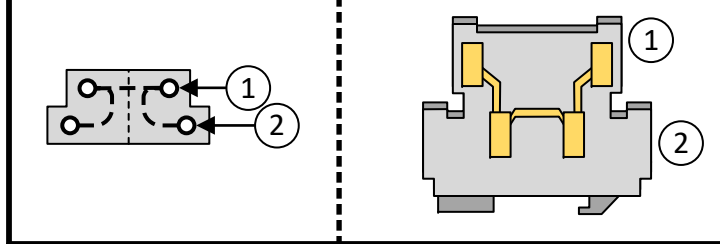
Detail View 3: SPDT DIN-Rail Relay Pin Identification Detail



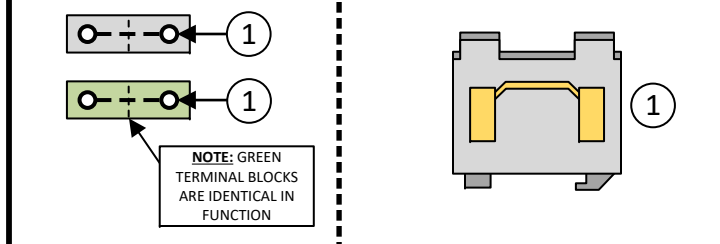
Detail View 4: DIN-Rail 3-Pole 2-Throw Terminal Block Identification Detail



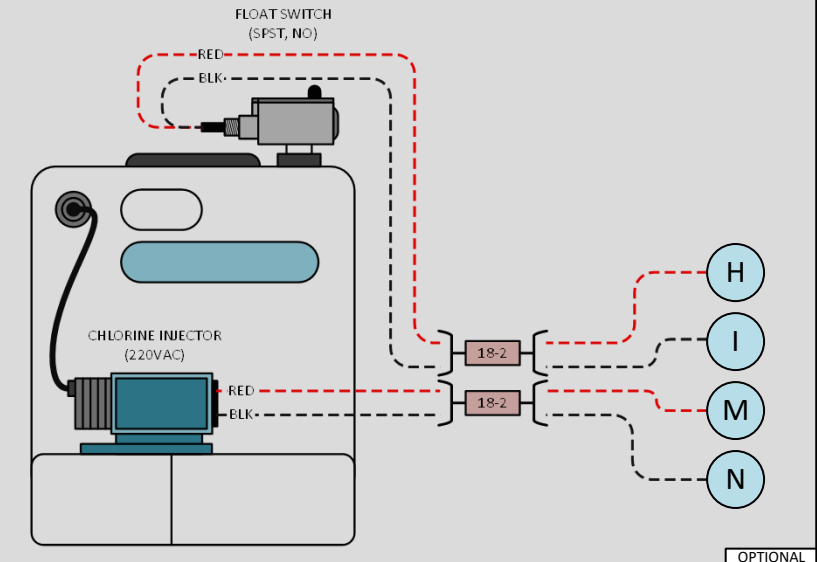
Detail View 5: DIN-Rail 1-Pole 4-Throw Terminal Block Identification Detail



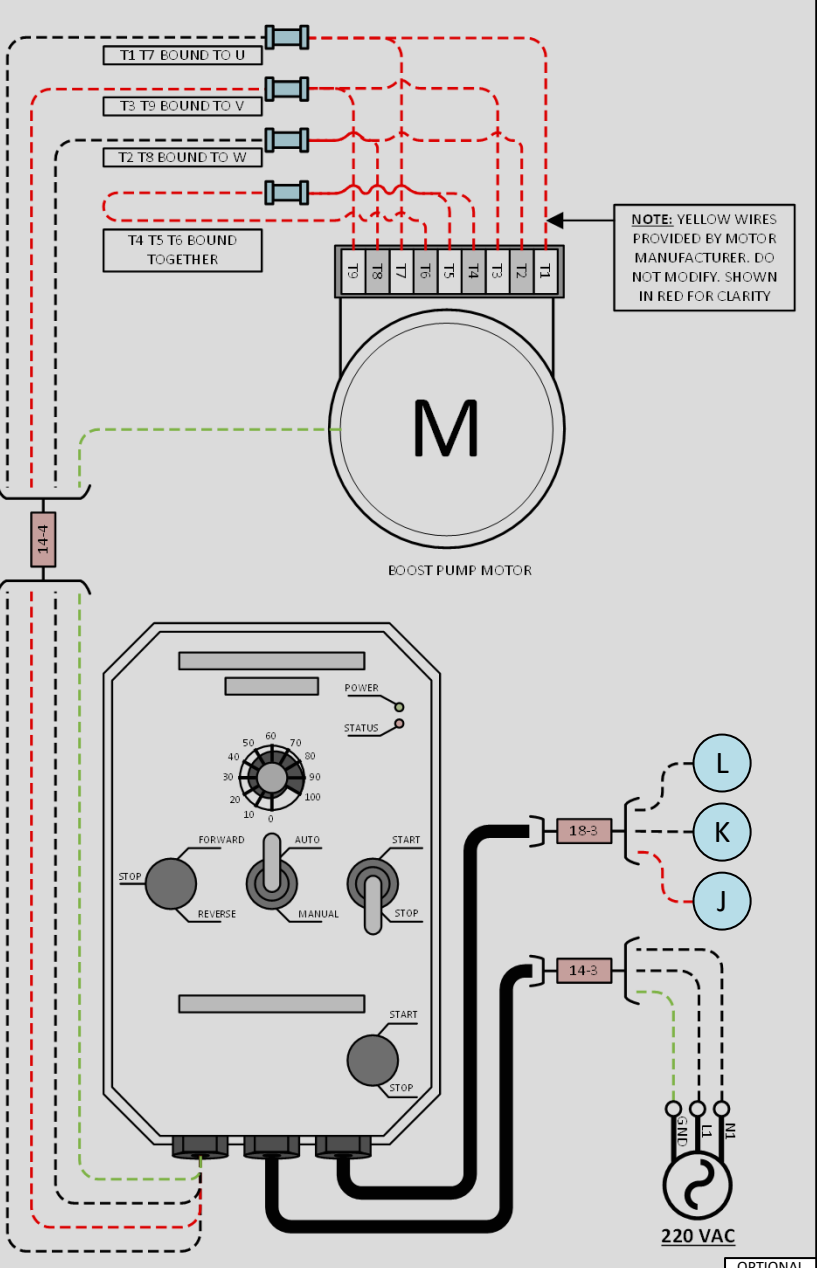
Detail View 6: DIN-Rail 1-Pole 2-Throw Terminal Block Identification Detail



Detail View 7: Chlorine Injection System Wiring Detail (Optional)



Detail View 8: Boost Pump Motor/VFD Wiring Detail (Optional)



OPTIONAL