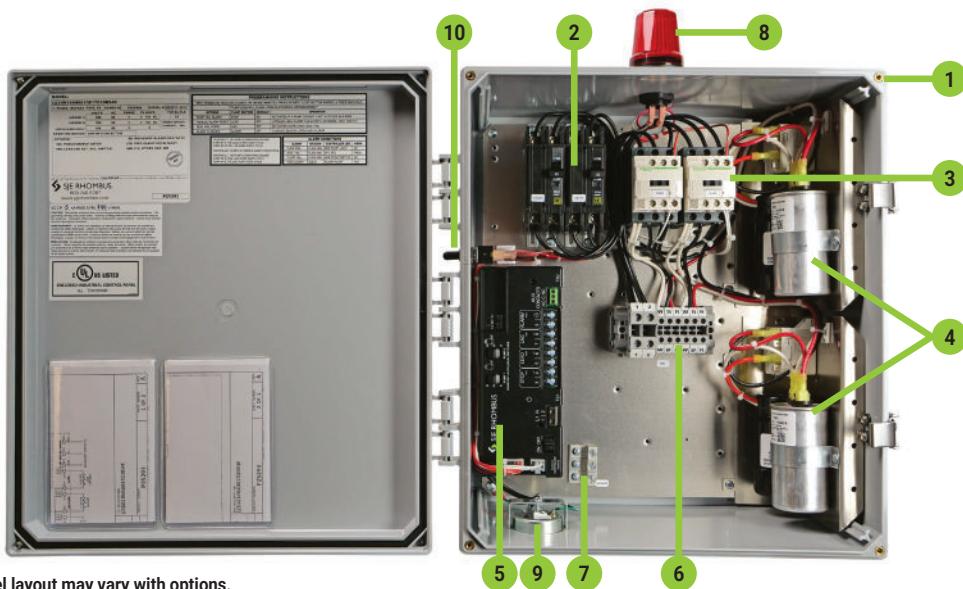


MODEL 123 CONTROL PANEL

Single Phase, Duplex Capacitor Start/Run Pump Control with Override



Panel layout may vary with options.



The Model 123 control panel is designed to control two 120, 208, or 240 VAC single phase pumps requiring external starting components in water and sewage installations. The controller is provided with a pump selector switch that can be set to alternate the pumps to equalize wear or to call either pump to activate first with the other pump to activate in lag condition. If an alarm occurs, the alarm activates the audible-visual system. The alarm conditions include: high water, float out-of-sequence, pump fail-to-run, seal failure (optional). Common applications include pump chambers and lift stations. This panel is available with the optional EZconnex® float connection system.

Other features include:

- Touch safe circuit board housing and low voltage 12 VDC float circuits
- Constant alarm (field programmable to flash)
- Alarm automatic reset (field programmable to manual alarm reset)
- Float out-of-sequence detection with automatic float reassignment
- Pump fail-to-run detection (field programmable to deactivate)
- Controller protected by four auto resettable fuses, no fuse replacement
- Three second lag pump delay time, prevents simultaneous pump start-up

Note: SJE Rhombus will warranty motor start kit components supplied by SJE Rhombus for one year. SJE Rhombus makes no warranties of any type with respect to motor start kits supplied by a customer.

COMPONENTS

1. Enclosure measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm); NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use)
2. Circuit breakers (optional) provide pump disconnect and branch circuit protection
3. IEC motor contactors control pumps by switching electrical lines
4. Capacitor start modules - start/run capacitor kits available
5. Duplex controller provides pump control, alternation and alarm
 - a. HOA switches for manual control Hand/Off/Automatic
 - b. Control power ON/OFF switch
 - c. Power ON green LED indicator
 - d. Float status red LED indicators
 - e. Float push-to-test buttons
 - f. Pump selector switch: Alt, 1-lead 2-lag, 2-lead 1 lag
 - g. Auxiliary alarm contacts Form-C
 - h. Terminal block: incoming power
 - i. Terminal block: float switches
 - j. Option: adjustable seal failure circuits and red LED indicators (must select option 5E when ordering)
6. Incoming pump power terminal block/pump terminal block
7. Ground lugs
8. Red LED beacon provides 360° visual check of alarm condition
9. Alarm horn provides audible alarm warning (83 to 85 decibel rating)
10. Exterior alarm Test/Normal/Silence switch allows horn and light to be tested and horn to be silenced in an alarm condition; alarm automatically resets once alarm condition is cleared

Model 123 control panels cannot be returned. Please refer to the Product Return section.

Note: Other options available. Options selected may increase enclosure size and change component layout.

Note: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.



123 CONTROL PANEL	ALARM PACKAGE	W ENCLOSURE RATING	1 STARTING DEVICE	4 PUMP FULL LOAD AMPS	4 PUMP DISCONNECTS	LEVEL CONTROL APPLICATION	6A10E19B OPTIONS (LISTED BELOW)
CONTROL PANEL	✓ 123	123	Single Phase Duplex Capacitor Start/Run (includes Options 6A and 19B as standard)				
ALARM PACKAGE		0	Select Options or No Alarm Package				
		1	Alarm Package (includes test/normal/silence switch, red light, & horn)				
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)				
STARTING DEVICE	✓	1	IEC Motor Contactor 120/208/240V				
PUMP FULL LOAD AMPS		0	0 - 7 FLA				
		1	7 - 15 FLA				
		2	15 - 20 FLA				
		3	20 - 30 FLA				
		4	30 - 40 FLA				
PUMP DISCONNECTS	✓	4	Circuit Breaker				
LEVEL CONTROL APPLICATION		H	Pump Down (select Option 17 below)				
		L	Pump Up (select Option 17 below)				
		E	EZconnex® Float Switch System				
		X	No Floats				

Start/run capacitor kits must be ordered separately (see Option 12 below or call factory).

PRICING WORKSHEET

Model 123 Base Price	_____
Alarm Package	_____
Enclosure Rating	_____
Starting Device	_____
Pump Full Load Amps	_____
Pump Disconnects	_____
Level Control Application	_____
Total Options	_____
Enclosure Upsize	_____
TOTAL LIST PRICE _____	

OPTIONS			DESCRIPTION	
	4A	Redundant Off (must also select Option 4D if floats are required)		
	4B	Red Redundant Off Indicator & Alarm (must also select Option 4A)		
	4D	Redundant Off Float (must also select Option 4A and Option 17)		
	5A	Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)		
	5E	Seal Failure Circuit & Red Indicator (2 wire)		
✓	6A	Auxiliary Alarm Contact, Form C (included as standard)		
	8A	Elapsed Time Meter		
	8C	Event (Cycle) Counter		
	9_A	Pump Overload - Specify Amperage After Number 9 Followed by Letter "A" Example: 912A = 12 Amp Pump	0-20 FLA 30-40 FLA	
✓	10E	Lockable Latch - NEMA 4X (included as standard, must select Enclosure Rating W above)		
	10F	Lightning Arrestor (must select Pump Circuit Breakers)		
	10K	Anti-condensation Heater		
	12B	Customer Supplied Motor Start Components, Mounted in Enclosure by SJE Rhombus		
	12C	Motor Start Component, Mounted and Supplied by SJE Rhombus		
	14B	Main Disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF position, door interlock in the ON-position)	0-20 FLA (total of both pumps) 20-80 FLA (total of both pumps)	

For additional control panel options, please contact Technical Support at techsupport@sjeinc.com.