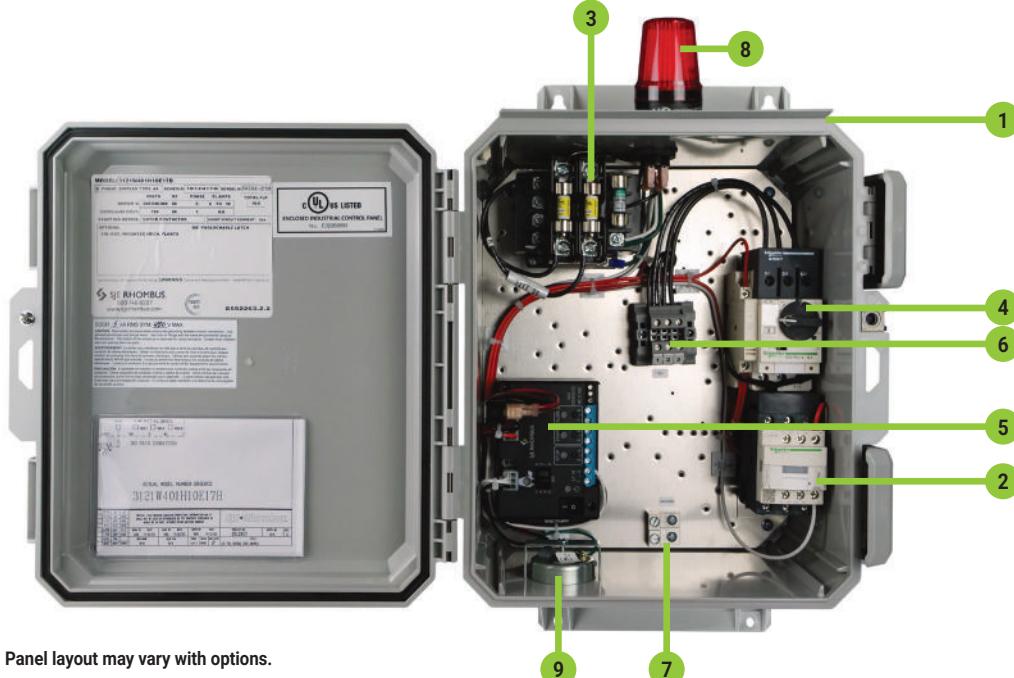


# MODEL 312 CONTROL PANEL

Three Phase, Simplex Motor Contactor Control



Panel layout may vary with options.



The Model 312 control panel provides industrial and commercial customers with a reliable means of controlling one 208/240/480V three phase pump in water and sewage installations. Two control switches activate an IEC motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system. Common applications include pump chambers, irrigation systems, and lift stations. This panel is available with optional EZconnex® float connection system.

Simplex controller features include:

- Touch safe circuit board housing and low voltage 24 VDC float circuits
- Alarm (field programmable to flash)
- Alarm automatic reset (field programmable to manual alarm reset)
- Float out-of-sequence detection
- Pump contactor failure detection
- Controller protected by three auto resettable fuses (control, alarm, and pump 1)

## COMPONENTS

1. NEMA 4X (ultraviolet stabilized thermoplastic enclosure measures 12 x 10 x 6 inches (30.48 x 24.4 x 15.24), padlockable with integral mounting flanges, drip shield, (2) heavy duty cover latches, and stainless steel 1/4 turn set screw; for outdoor or indoor use). Note: added options may change enclosure size and enclosure features.
2. IEC motor contactor controls pump by switching electrical lines
3. Multi-tap transformer (208/240/480 VAC primary) provides 120V control/alarm voltage or 600 VAC primary transformer
4. Motor protective switch provides adjustable overload, branch circuit protection and pump disconnect
5. Simplex controller provides pump and alarm control; elevated in the enclosure for easy access and field wiring
  - a. HOA switch for manual control of the pump
  - b. Pump run green LED indicator
  - c. Control power ON/OFF switch
  - d. Power ON green LED indicator
  - e. Float push-to-test buttons
  - f. Float status red LED indicators
  - g. Auxiliary alarm contacts Form C
  - h. Option: adjustable seal failure circuit and red LED indicator (must select option 5E when ordering)
6. Input power terminal block
7. Ground lugs
8. Red LED beacon provides 360° visual check of alarm condition
9. Alarm horn provides audio warning of alarm condition (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 (Not shown)

Note: Options may increase enclosure size and/or change enclosure features/component layout.

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

Three Phase

 **SJE RHOMBUS®**

312	1	W	PUMP FULL LOAD AMPS	LEVEL CONTROL APPLICATION	6A10E
CONTROL PANEL	312	Three Phase Simplex (includes Option 10E as standard)	\$1,952.88		OPTIONS (LISTED BELOW)
ALARM PACKAGE	1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)	Base		
ENCLOSURE RATING	W	Weatherproof, NEMA 4X (engineered thermoplastic)	Base		
		208/240/480V	600V		
	001	1.0 - 1.6 FLA	005	1.0 - 1.6 FLA	Base
	101	1.6 - 2.5 FLA	105	1.6 - 2.5 FLA	Base
	201	2.5 - 4.0 FLA	205	2.5 - 4.0 FLA	Base
	301	4.0 - 6.3 FLA	305	4.0 - 6.3 FLA	Base
	401	6.0 - 10.0 FLA	405	6.0 - 10.0 FLA	Base
	511	9.0 - 14.0 FLA	515	9.0 - 14.0 FLA	\$63.86
	611	13.0 - 18.0 FLA	615	13.0 - 18.0 FLA	\$63.86
	621	17.0 - 23.0 FLA	625	17.0 - 23.0 FLA	\$78.28
	701	20.0 - 25.0 FLA	705	20.0 - 25.0 FLA	\$78.28
	H	FLOATS - Pump Down (select Option 17 below)		See Options	
	L	FLOATS - Pump Up (select Option 17 below)		See Options	
	E	EZconnex® Float Switch System		See Options	
	X	No Floats		Base	
OPTIONS		DESCRIPTION		LIST PRICE	
5A		Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)	\$66.95		
5E		Seal Failure Circuit & Red Indicator (2 wire)	\$255.44		
✓ 6A		Auxiliary Alarm Contact, Form C (included as standard)	\$0.00		
8A		Elapsed Time Meter	\$108.15		
8C		Event (Cycle) Counter	\$88.58		
✓ 10E		Lockable Latch - NEMA 4X (included as standard, must select Enclosure Rating W above)	\$0.00		
10G		Lightning Arrestor	\$309.00		
10K		Anti-condensation Heater	\$149.35		
14B		Main Disconnect - 14x12 Enclosure Upgrade (rotary style, mounted through door, non-fused, padlockable in the OFF position, door interlock in the ON-position)	\$515.00		
OPTIONS		DESCRIPTION		LIST PRICE	
16C		30' Cord in Lieu of 20' Cord (per float)	\$8.24		
16D		40' Cord in Lieu of 20' Cord (per float)	\$16.48		
17G		SJE MilliAmpMaster™ / Pipe Clamp (3 Floats) - Mechanical	\$120.51		
17H		SJE MilliAmpMaster™ / Externally Weighted (3 Floats) - Mechanical	\$148.32		
19T		TOA (Test/Off/Automatic) Switch and Pump Run Light Through Door Mounted	\$108.15		
19U		HOA (Hand/Off/Automatic) Switch and Pump Run Light Through Door Mounted	\$108.15		
19X		Door Mounted Pump Run Indicator	\$108.15		
33D		EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp	\$350.27		
35D		EZconnex® 4-Port, 25', with 10' Floats (4) / Pipe Clamp	\$424.73		

## PRICING WORKSHEET

Model 312 Base Price \$1,952.88

Alarm Package \_\_\_\_\_

Enclosure Rating \_\_\_\_\_

Pump Full Load Amps \_\_\_\_\_

Level Control Application \_\_\_\_\_

Total Options \_\_\_\_\_

**TOTAL LIST PRICE** \_\_\_\_\_

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