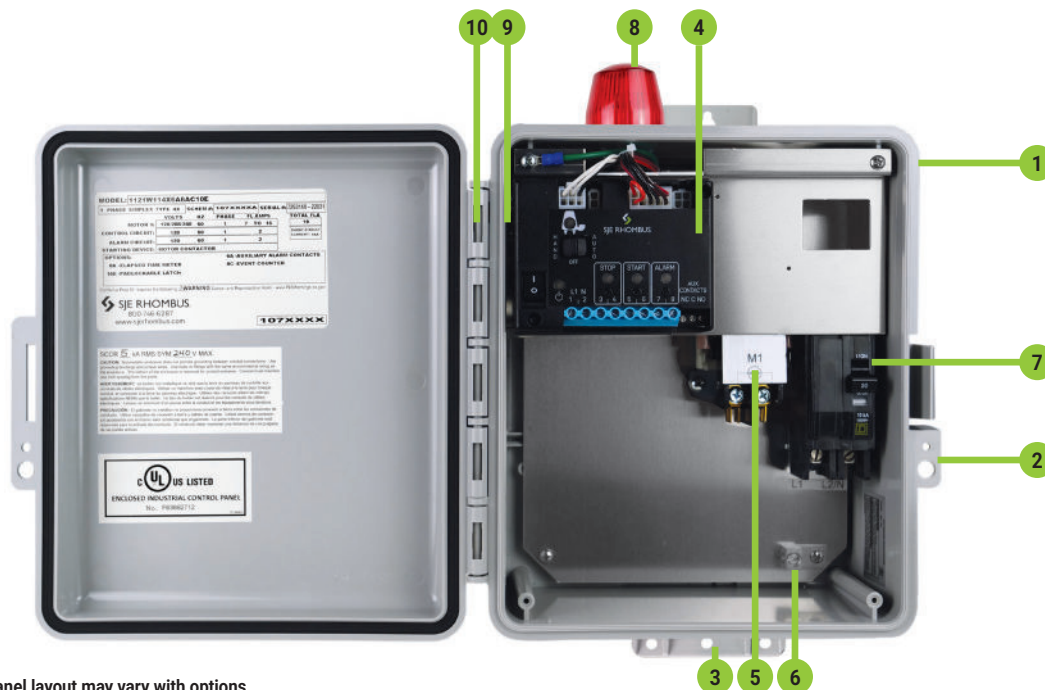


MODEL 112 CONTROL PANEL

Single Phase, Simplex Motor Contactor Control



Panel layout may vary with options.

This latest generation Model 112 control panel controls one 120, 208, or 240 VAC single phase pump in water and sewage installations. This panel includes a new innovative simplex controller for pump control and alarm; including float status LEDs, control/alarm power on/off switch with LED indicator, pump run LED, HOA switch, auxiliary contacts and more!

The Model 112 control panel features built in pump failure and float out of sequence detection. In addition, there are three user selectable field programmable options: alarm steady state or flashing; alarm auto reset or manual reset; and optional seal failure alarm beacon plus horn activation.

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)

Note: SJE Rhombus recommends separate pump and control/alarm power sources.

COMPONENTS

1. Enclosure measures 10 x 8 x 4 inches (25 x 20 x 10 cm) NEMA 4X (ultraviolet stabilized thermoplastic) for indoor or outdoor use
2. Integral padlockable latch for added safety
3. Integral mounting feet for indoor or outdoor use
4. 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)
5. Magnetic motor contactor
6. Ground lug
7. Circuit breaker
8. Red LED beacon provides 360° visual check of alarm condition - Note: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon
9. Alarm horn provide audible warning of alarm condition (83 to 85 decibel rating) - Note: NEMA 1 style utilizes an internally mounted buzzer in lieu of horn (**Not shown**)
10. Exterior alarm test/normal/silence switch allows horn to be silenced in an alarm condition; alarm automatically resets once alarm condition has been cleared (**Not shown**)

Notes: Options, voltage, and amp range selected may change enclosure size and component layout.

Other options available.

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



Model 112 - Single phase, simplex motor contactor control.

Part #	Pre-configured Panels for Easy Ordering	List Price
1071824	1121W114X6A10E	\$908.46
1071853	1121W124X6A10E	\$908.46
1071823	1121W114H6A10E17G	\$1,028.97
1071822	1121W124H6A10E17G	\$1,028.97
1071841	1121W114H6A8AC10E17G	\$1,225.70
1075046	1121W124H6A8AC10E17G	\$1,225.70

112 CONTROL PANEL	1 ALARM PACKAGE	W ENCLOSURE RATING	1 STARTING DEVICE	PUMP FULL LOAD AMPS	4 PUMP DISCONNECTS	LEVEL CONTROL APPLICATION	6A10E OPTIONS (LISTED BELOW)
CONTROL PANEL	✓	112	Single Phase Simplex			\$908.46	PRICING WORKSHEET Model 112 Base Price <u>\$908.46</u> (includes Alarm Package, Enclosure Rating, Starting Device and Pump Disconnect Pump Full Load Amps _____ Total Options _____ TOTAL LIST PRICE _____
ALARM PACKAGE	✓	1	Alarm Package (includes test/normal/silence switch, fuse, red light, horn & float)			Base	
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)			Base	
STARTING DEVICE	✓	1	Magnetic Motor Contactor 120/208/240V			Base	
PUMP FULL LOAD AMPS		0	0 - 7 FLA			Base	
		1	7 - 15 FLA			Base	
		2	15 - 20 FLA			Base	
		3	20 - 30 FLA (Enclosure Upsize Required)			\$25.75	
PUMP DISCONNECT	✓	4	Circuit Breaker 120/208/240V			Base	
LEVEL CONTROL APPLICATION		H	Floats - Pump Down (select Option 17G below - 3 floats by default when selected)			See Options	
		L	Floats - Pump Up (select Option 17G below - 3 floats by default when selected)			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) (Normally Open)	\$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
9_A	Pump Overload - Specify Amperage after Number 9 Followed by Letter "A"	
	Example: 912A = 12 amp pump	
	0 - 25 FLA	\$329.60
	25 - 30 FLA	\$417.15
✓ 10E	Lockable Latch - NEMA 4X (included as standard, must select Enclosure Rating W above)	\$0.00
10F	Lightning Arrestor	\$309.00
10K	Anti-condensation Heater	\$149.35
10P	Panel Mounting Post - factory installed (max. enclosure 14x12x6)	\$231.75
14B	Main Disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF position, door interlock in the ON position (must select Circuit Breaker)	
	0 - 20 FLA	\$515.00
	20 - 30 FLA	\$592.25

OPTIONS	DESCRIPTION	LIST PRICE
15A	Control / Alarm Circuit Breaker	\$97.85
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

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