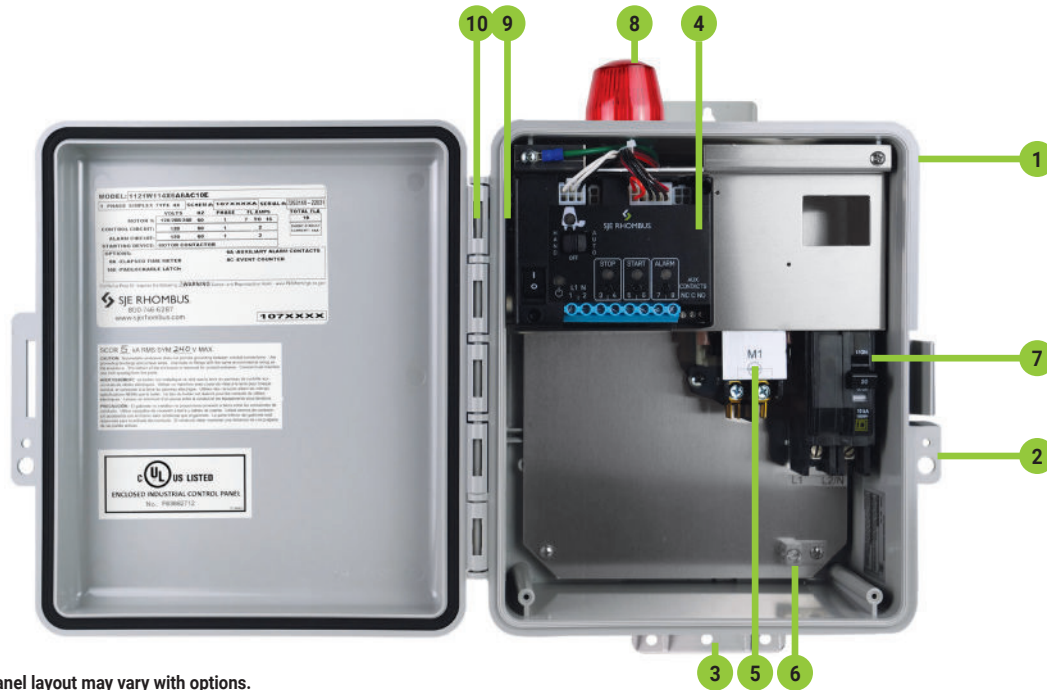# MODEL 112 CONTROL PANEL
Single Phase, Simplex Motor Contactor Control

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.

Single Phase

SJE RHOMBUS®

Model 112 - Single phase, simplex motor contactor control.

Part #	Pre-configured Panels for Easy Ordering
1071824	1121W114X6A10E
1071853	1121W124X6A10E
1071823	1121W114H6A10E17G
1071822	1121W124H6A10E17G
1071841	1121W114H6A8AC10E17G
1075046	1121W124H6A8AC10E17G

112	1	W	1		4		6A10E
CONTROL PANEL	ALARM PACKAGE	ENCLOSURE RATING	STARTING DEVICE	PUMP FULL LOAD AMPS	PUMP DISCONNECTS	FLOAT SWITCH APPLICATION	OPTIONS (LISTED BELOW)

CONTROL PANEL	✓	112	Single Phase Simplex
ALARM PACKAGE	✓	1	Alarm Package (includes test/normal/silence switch, fuse, red light, horn & float)
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)
STARTING DEVICE	✓	1	Magnetic 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 (Enclosure Upsize Required)
PUMP DISCONNECT	✓	4	Circuit Breaker 120/208/240V
FLOAT SWITCH APPLICATION		H	Floats - Pump Down (select Option 17G below - 3 floats by default when selected)
		L	Floats - Pump Up (select Option 17G below - 3 floats by default when selected)
		E	EZconnex® Float Switch System (select Option 33 below)
		X	No Floats

PRICING WORKSHEET

Model 112 Base Price _____
(includes Alarm Package,
Enclosure Rating,
Starting Device and
Pump Disconnect

Pump Full Load Amps _____

Total Options _____

Enclosure Upsize _____

TOTAL LIST PRICE _____

ENCLOSURE UPSIZE: If you selected three or more of the ◆ options or one ◆◆ option, **add a one-time charge** for enclosure upsize.

	OPTIONS	DESCRIPTION
	5A ◆	Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)
	5E	Seal Failure Circuit & Red Indicator (2 wire) (Normally Open)
✓	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 - 25 FLA / 25 - 30 FLA
✓	10E	**Lockable Latch - NEMA 4X (included as standard)**
	10F ◆	Lightning Arrestor
	10K ◆	Anti-condensation Heater
	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 / 20 - 30 FLA
	15A	Control / Alarm Circuit Breaker

OPTIONS	DESCRIPTION
16A	10' Cord in Lieu of 20' Cord (per Float)
16B	15' Cord in Lieu of 20' Cord (per Float)
16C	30' Cord in Lieu of 20' Cord (per Float)
16D	40' Cord in Lieu of 20' Cord (per Float)
17G	20' SJE MilliAmpMaster™ / Pipe Clamp (3 Floats) - Mechanical
17H	20' SJE MilliAmpMaster™ / Externally Weighted- Mechanical
19T	TOA (Test/Off/Automatic) Switch and Pump Run Light through Door Mounted
19U	HOA (Hand/Off/Automatic) Switch and Pump Run Light through Door Mounted
19X	Door Mounted Pump Run Indicator
33D	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp

SJE Rhombus recommends the SJE MilliAmpMaster™* control float switch to operate the 112 control panel. For float switch options that ship with your panel in a separate carton, select the "X" option (switch application) and select from the float kits below or see our control switch catalog pages to order and ship separately.

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

ITEMS LISTED BELOW SHIP SEPARATELY.

PART NUMBER	DESCRIPTION
1075005	3 Float Kit. 30' SJE MilliAmpMaster™ Pipe Clamp - Normally Open (Pump Down)
1075006	3 Float Kit. 20' Sensor Float®, Mercury Pipe Clamp - Normally Open (Pump Down)
1075007	3 Float Kit. 20' Sensor Float®Mini, Mercury Pipe Clamp - Normally Open (Pump Down)
	***Float Kit pricing and part numbers are only available when ordering with a 112 control panel.**

B.36 www.sjerhombus.com • email: customer.service@sjeinc.com SEE PRICE BOOK FOR PRICING.

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