





Panel layout may vary with options.

The Model 114 control panel is designed for applications requiring intrinsically safe float circuits or other circuit extensions. This panel will control one 120, 208, or 240 VAC single phase pump. Two control switches activate a magnetic 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, lift stations, or other installations classified as hazardous locations requiring intrinsically safe circuits.

The Model 113 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.

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

- 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)
- Intrinsically safe module limits the amount of energy to switches preventing ignition of flammable gases
- IEC motor contactor controls pump by switching electrical lines
- Simplex controller provides pump and alarm control; elevated in the enclosure for easy access and field wiring
 - HOA switch for manual control of the pump
 - Pump run green LED indicator
 - Control power ON/OFF switch
 - Power ON green LED indicator
 - e. Float push-to-test buttons
 - Float status red LED indicators
 - Auxiliary alarm contacts Form C
 - Option: adjustable seal failure circuit and red LED indicator (must select option 5E when ordering)
- Input power terminal block
- 6. **Ground lugs**
- Circuit breaker (optional) provides pump disconnect and branch circuit protection
- Red LED beacon provides 360° visual check of alarm condition 8.
- Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating)
- 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.
- Overload relay (optional) provides thermal overload protection for pump (Not shown)

Model 114 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.

114		1	W	1		4			
CONTROL PANEL		ARM KAGE	ENCLOSURE RATING	STARTING DEVICE	PUMP FULL LOAD AMPS	PUMP DISCONNECTS	FLOAT SWITCH APPLICATION		OPTIC
CONTROL PANEL	1	114	Single Phase Sir	nplex Intrinsically	y Safe				Mod
ALARM PACKAGE	/	1	Alarm Package (i	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)					IVIOU
ENCLOSURE RATING	/	W	Weatherproof, NEMA 4X (engineered thermoplastic)						
STARTING DEVICE	/	1	Magnetic Motor	Contactor 120/2	08/240V				
PUMP FULL Load amps		0	0 - 7 FLA					ᇤ	
		1	7 - 15 FLA				ш		
		2	15 - 20 FLA					WORKSH	
		3	20 - 30 FLA					쏬	
		4	30 - 40 FLA				0	Pum	
PUMP DISCONNECTS	/	4	Circuit Breaker 1:	20/208/240V					
FLOAT SWITCH APPLICATION		Н	Pump Down (select Option 17 below)				Ž	Р	
		L	Pump Up (select Option 17 below)				\overline{z}		
		Е	EZconnex® Float Switch System (select Option 33 or 34 below)				PRICING	Float S	
		Х	No Floats					1 4	
_									

OPTIONS

14B

	Model 114 Base Price	
	Alarm Package	
EET	Enclosure Rating	
KSH	Starting Device	
PRICING WORKSHEE	Pump Full Load Amps	
SING	Pump Disconnects	
PRIC	Float Switch Application	
	Total Options	
	TOTAL LIST PRICE	

0-20 FLA

20-40 FLA

6A10E

ONS (LISTED BELOW)

	OPTIONS	DESCRIPTION			
	5A	Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)			
	5E	Seal Failure Circuit & Red Indicator (2 wire)			
	5M	Seal Fail Alarm Activation (must select Option 5E)			
1	6A	Auxiliary Alarm Contact, Form C			
	6G	Auxiliary Contact, Dry, Seal Fail, Normally Open (must select Option 5E)			
	8A	Elapsed Time Meter			
	8C	Event (Cycle) Counter			
	9_A	Pump Overload - Specify Amperage After Number 9 Followed by Letter "A" 0-25 FLA			
		Example: 912A = 12 Amp Pump 25-40 FLA			
✓	10E	Lockable Latch - NEMA 4X (included as standard)			
	10F	Lightning Arrestor (select pump circuit breaker)			
	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			

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

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	SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical		
17H	SJE MilliAmpMaster™ / Externally Weighted (per Float) - 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		
IE Dl l .	Lab. O. IT. Milliam Market 1974		
SJE Rhombus recommends the SJE MilliAmpMaster™* control float switch			

Main Disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF position, door interlock in the ON-position) (must select circuit breaker)

DESCRIPTION

SJE Rhombus recommends the SJE MilliAmpMaster™* control float switch to operate the 113 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.

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 113 control panel.		