MODEL 113 CONTROL PANEL

Single Phase, Simplex Capacitor Start/Run Pump Control



US

Panel layout may vary with options.

Model 113 control panels provide a reliable means of controlling one 120, 208, or 240 VAC single phase pump requiring external starting components 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 and lift stations.

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

- NEMA 4X (ultraviolet stabilized thermoplastic with removable 1. mounting feet for outdoor or indoor use); enclosure measures 14 x 12 x 6 inches (35.56 x 30.48 x 15.24 cm)
- 2. IEC motor contactor controls pump by switching electrical lines
- Simplex controller provides pump and alarm control; 3 elevated in the enclosure for easy access and field wiring
 - а. HOA switch for manual control of the pump
 - Pump run green LED indicator b.
 - Control power ON/OFF switch С
 - d. Power ON green LED indicator
 - Float push-to-test buttons e.
 - f. Float status red LED indicators
 - Auxiliary alarm contacts Form C q.
 - Option: adjustable seal failure circuit and red LED h indicator (must select option 5E when ordering)
- Pump input power and pump connection terminal block 4.
- 5. Ground lugs
- 6. Circuit breaker (optional) provides pump disconnect and branch circuit protection
- 7. Capacitor start module - start/run capacitor kits available
- 8 Red LED beacon provides 360° visual check of alarm condition
- Alarm horn provides audio warning of alarm condition (83 to 9 85 decibel rating)
- Exterior alarm Test/Normal/Silence switch allows horn and 10. light to be tested and horn to be silenced in an alarm condition; alarm automatically resets once alarm condition is cleared (Not shown)

Model 113 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.

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MODEL 113 - Single phase, simplex capacitor start/run pump control.

113 CONTROL PANEL	ALA PACK		W 1 4 ENCLOSURE RATING STARTING DEVICE PUMP FULL LOAD AMPS PUMP DISCONNECTS	6A10E OPTIONS (LISTED BELOW)	
CONTROL PANEL	1	113	Single Phase Simplex Capacitor Start/Run		
ALARM PACKAGE		1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)	Model 113 Base Price	
NCLOSURE RATING	1	W	Weatherproof, NEMA 4X (engineered thermoplastic)		
STARTING DEVICE	1	1	IEC Motor Contactor 120/208/240V	Alarm Package	
		0	0-7 FLA		
		1	7 - 15 FLA	Enclosure Rating	
PUMP FULL Load Amps		2	15 - 20 FLA	ъ.	
LUAD AMIPS		3	20 - 30 FLA	Starting Device	
		4	30 - 40 FLA	0	
UMP DISCONNECTS	1	4	Circuit Breaker	Pump Full Load Amps	
		Н	Pump Down (select Option 17 below)		
FLOAT SWITCH		L	Pump Up (select Option 17 below)	Pump Disconnects	
APPLICATION		E	EZconnex® Float Switch System (select Option 33 or 34 below)		
		Х	No Floats	Float Switch Application	
Start/run ca	pacito	or kits	must be ordered separately (see Option 12 below or call factory).	Total Options	

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

	OPTIONS	DESCRIPTION			OPTIONS	DESCRIPTION	
	5A	Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)			14B	Main Disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF position, door interlock in the ON-position) (must select circuit	
	5E	Seal Failure Circuit & Red Indicator (2 wire)				breaker)	
\checkmark	6A	Auxiliary Alarm Contact, Form C (included as standard)			16A	10' Cord in Lieu of 20' Cord (per float)	
	8A	Elapsed Time Meter			16B	15' Cord in Lieu of 20' Cord (per float)	
	8C	Event (Cycle) Counter			16C	30' Cord in Lieu of 20' Cord (per float)	
	I	Pump Overload - Specify Amperage After Number 9	0-30 FLA		16D	40' Cord in Lieu of 20' Cord (per float)	
	9_A	Pump Overload - Specify Amperage After Number 9 Followed by Letter "A"			17G	20' SJE MilliAmpMaster™ / Pipe Clamp (3 Floats) - Mechanical	
	 	Example: 912A = 12 Amp Pump	30-40 FLA		17H	20' SJE MilliAmpMaster™ / Externally Weighted- Mechanical	
1	10E	Lockable Latch - NEMA 4X (included as standard)			19T	TOA (Test/Off/Automatic) Switch and Pump Run Light Through Door Mounted	
	10F	Lightning Arrestor (select pump circuit breaker)					
	10K	Anti-condensation Heater			190	HOA (Hand/Off/Automatic) Switch and Pump Run Light	
	12B	Customer Supplied Motor Start Components, Mounted in Enclosure by SJE				Through Door Mounted	
	IZD	Rhombus			19X	Door Mounted Pump Run Indicator	
	12C				33D	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp	
	. 176. "	12C Motor Start Component, Mounted and Supplied by SJE Rhombus					
	120		1			us recommends the SJE MilliAmpMaster™* control float switch	

order and ship separately.

ITEMS LISTED BELOW SHIP SEPARATELY.

TOTAL LIST PRICE

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)		
k.	*Float Kit pricing and part numbers are only available when ordering with a 113 control panel.		

California Prop 65 requires the following: 🛝 WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov



Capacitor Start/Run

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