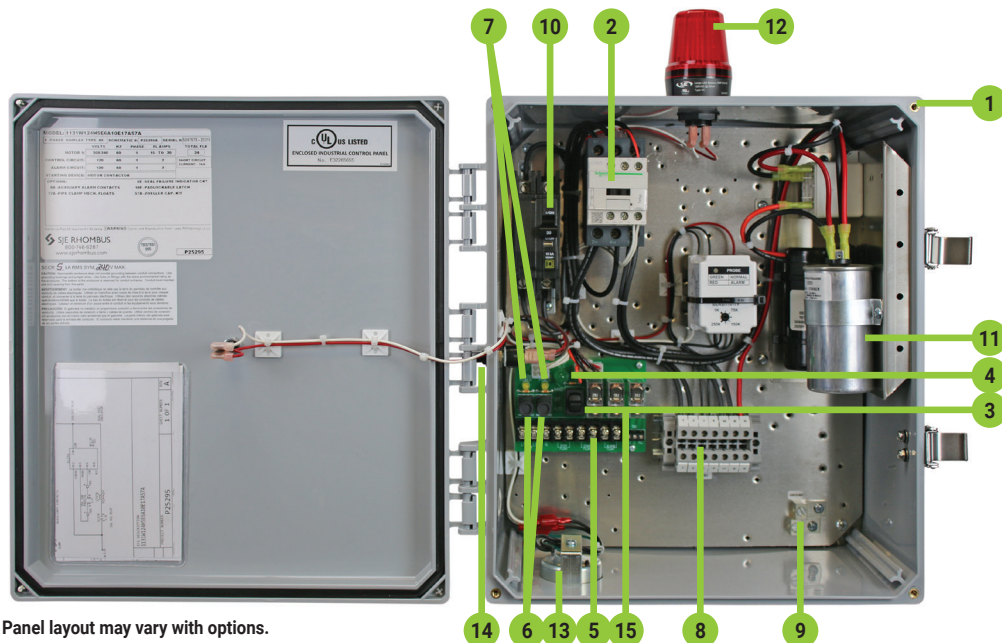# MODEL 113 CONTROL PANEL
Single Phase, Simplex Capacitor Start/Run Pump Control

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. This panel is available with the optional EZconnex® float connection system.

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

1. NEMA 4X (ultraviolet stabilized thermoplastic with removable 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
3. HOA switch for manual pump control (mounted on circuit board)
4. Green Pump Run indicator light (mounted on circuit board)
5. Float switch terminal block (mounted on circuit board)
6. Alarm and control fuses (mounted on circuit board)
7. Alarm and Control Power indicators (mounted on circuit board)
8. Pump input power and pump connection terminal block
9. Ground lugs
10. Circuit breaker (optional) provides pump disconnect and branch circuit protection
11. Capacitor start module - start/run capacitor kits available
12. Red LED beacon provides 360° visual check of alarm condition
13. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating)
14. 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
15. Horn silence relay (mounted on circuit board)

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.

SJE RHOMBUS®

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

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

CONTROL PANEL	✓	113	Single Phase Simplex Capacitor Start/Run
ALARM PACKAGE		0	Select Options or No Alarm Package
		1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)
STARTING DEVICE	✓	1	IEC 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
		4	30 - 40 FLA
PUMP DISCONNECTS		0	No Pump Disconnect
		4	Circuit Breaker
FLOAT SWITCH APPLICATION		H	Pump Down (select Option 17 below)
		L	Pump Up (select Option 17 below)
		E	EZconnex® Float Switch System (select Option 33 or 34 below) — with Alarm Package / without Alarm Package
		X	No Floats — with Alarm Package / without Alarm Package

PRICING WORKSHEET

Model 113 Base Price _____

Alarm Package _____

Enclosure Rating _____

Starting Device _____

Pump Full Load Amps _____

Pump Disconnects _____

Float Switch Application _____

Total Options _____

TOTAL LIST PRICE _____

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

OPTIONS	DESCRIPTION	OPTIONS	DESCRIPTION
1A	Red Beacon Only / No Audio (must select Option 1E if floats included)	16A	10' Cord in Lieu of 20' Cord (per float)
1C	Horn Only / No Visual (must select Option 1E if floats included)	16B	15' Cord in Lieu of 20' Cord (per float)
1E	Alarm Float	16C	30' Cord in Lieu of 20' Cord (per float)
3A	Alarm Flasher	16D	40' Cord in Lieu of 20' Cord (per float)
3B	Manual Alarm Reset	17A	SJE SignalMaster® / Pipe Clamp (per Float) - Mechanical
4A	Redundant Off (must also select Option 4D if floats are required)	17B	SJE SignalMaster® /Externally Weighted (per Float) - Mechanical
4B	Red Redundant Off Indicator & Alarm (must also select Option 4A)	17C	Sensor Float® / Internally Weighted (per Float) - Mercury
4D	Redundant Off Float (must also select Option 4A and Option 17)	17D	Sensor Float® / Externally Weighted (per Float) - Mercury
5A	Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)	17E	Sensor Float® Mini / Pipe Clamp (per Float) - Mercury
5E	Seal Failure Circuit & Red Indicator (2 wire)	17F	Sensor Float® Mini / Externally Weighted (per Float) - Mercury
6A	Auxiliary Alarm Contact, Form C	17J	Sensor Float® / Pipe Clamp (per Float) - Mercury
8A	Elapsed Time Meter	19T	TOA (Test/Off/Automatic) Switches and Pump Run Lights Through Door Mounted
8C	Event (Cycle) Counter	19U	HOA (Hand/Off/Automatic) Switches and Pump Run Lights Through Door Mounted
9_A	Pump Overload - Specify Amperage After Number 9 Followed by Letter "A" Example: 912A = 12 Amp Pump — 0-30 FLA / 30-40 FLA	19X	Door Mounted Pump Run Indicator
10E	Lockable Latch - NEMA 4X	21A	SJE PumpMaster® in Lieu of ON/OFF Switches - Mechanical
10F	Lightning Arrestor (select pump circuit breaker)	21B	SJE PumpMaster® Plus in Lieu of ON/OFF Switches - Mechanical
10K	Anti-condensation Heater	21C	Super Single® in Lieu of ON/OFF Switches - Mercury
11C	Additional NEMA 1 Remote Alarm Panel (must select Option 6A)	21D	Double Float® in Lieu of ON/OFF Switches - Mercury
11D	Additional NEMA 4X Remote Alarm Panel (must select Option 6A)	33D ■	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp
12B	Customer Supplied Motor Start Components, Mounted in Enclosure by SJE Rhombus	33E ■	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp
		33G ■	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp
12C	Motor Start Component, Mounted and Supplied by SJE Rhombus	33H ■	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp
		34D ■	EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug
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 / 20-40 FLA	34E ■	EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug
		34G ■	EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug
		34H ■	EZconnex® 4-Port, 50', with 20' Floats (3) / Pipe Clamp, Sealing Plug

■ EZconnex® mechanically-activated, narrow angle float switches with quick release connections