

# Liberty Pumps®

## SX-Series

### Simplex Pump Controls

*For reliable control of a single pump in residential or commercial installations. Common applications include sump basins, effluent or sewage pump chambers and lift stations.*

#### Standard Features:

- Across-the-line magnetic contactor
  - Test/Auto switch
- Terminal block for easy wiring
  - Circuit breaker
- Green pump run indicator light (internal)
- Red alarm indicator light/audible alarm
  - Auxiliary Contacts
- Alarm silence and test switches
- Tri 120/208/240V. operation on single phase
- Tri 208/240/480V. operation on three phase

All SX-series panels are shipped complete with floats. Standard cord length is 20 feet.

NEMA 1



NEMA 4X



#### Other Available Options:

- Alarm bell
- Redundant off
- Cycle counter
- Dead front
- Main disconnect
- Flasher
- Manual alarm reset
- Power on light
- Lockable latch
- Overload protection
- Alternate beacon color
- High and low level indicators
- Seal fail indicator
- Anti-condensation heater
- Pilot breaker
- Overload reset, thru-door
- Beacon guard
- Thermal cutout
- Elapsed time meter
- Delay timer
- Lightning arrestor
- GFI convenience receptacle

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# SX-SERIES SIMPLEX PUMP CONTROLS

## MODEL SPECIFICATIONS

MODEL	VOLTS	PHASE	FULL LOAD AMPS (Must match pump)	ENCLOSURE
<b>Single Phase</b>				
SXL21=3	120/208/240	1	0 - 14.9 amps	NEMA 1
SXL24=3	120/208/240	1	0 - 14.9 amps	NEMA 4X
SXH21=3	120/208/240	1	15 - 20 amps	NEMA 1
SXH24=3	120/208/240	1	15 - 20 amps	NEMA 4X
<b>Three Phase*</b>				
SX34=3-131	208/240/480	3	1.6 - 2.5 amps	NEMA 4X
SX34=3-141	208/240/480	3	2.5 - 4.0 amps	NEMA 4X
SX34=3-171	208/240/480	3	4.0 - 6.3 amps	NEMA 4X
SX34=3-191	208/240/480	3	6 - 10 amps	NEMA 4X
SX34=3-511	208/240/480	3	9.0 - 14 amps	NEMA 4X
SX54=3-121	575	3	1.6 - 2.5 amps	NEMA 4X
SX54=3-151	575	3	2.5 - 4.0 amps	NEMA 4X
SX54=3-161	575	3	4.0 - 6.3 amps	NEMA 4X

\* Three phase panels come equipped with thermal overload protection that must be properly sized to the pump's full-load run amps. Multi-tap transformer (208/240/480VAC primary) provides 120V. control voltage. Motor protective switch provides adjustable overload, branch circuit protection and pump disconnect. Please consult factory for proper panel selection.

## SWITCH SPECIFICATIONS

All standard simplex panels include 3 pilot-duty float switches for Off, On and Alarm. 20' cord standard. Optional lengths available. External weights or pipe clamp mounts required.

**CABLE:** flexible 18 gauge, 2 conductor

**ELECTRICAL:** 5 amp, 120/230VAC, 50/60Hz

**FLOAT:** High impact PVC

140 degrees F. maximum fluid temperature

**WEIGHT:**

NEMA 1 Panels: 24 lbs. (approx.)

NEMA 4X Panels: 19 lbs. (approx.)

**Liberty can customize a panel to your specific pump needs. Please contact us for available options and ordering information. 800-543-2550**

## SX-SERIES FEATURES

**ENCLOSURE:** 8" x 8" x 4"; NEMA 4X – ultraviolet stabilized thermoplastic for outdoor; NEMA 1 – metal for indoor use. Certain options may increase enclosure size. (Three phase panels measure 12" x 10" x 6".)

**MAGNETIC MOTOR CONTACTOR:** Controls pump by switching hot electrical lines.

**HOA SWITCH:** Offers manual operation of pump (on circuit board).

**GREEN PUMP RUN INDICATOR:** on circuit board.

**FLOAT SWITCH TERMINAL BLOCK:** on circuit board.

**CONTROL AND ALARM FUSES:** on circuit board.

**CONTROL AND ALARM POWER INDICATORS:** on circuit board.

**CIRCUIT BREAKER:** Single phase panels include 20 amp breaker to provide pump disconnect and branch circuit protection. Three Phase breakers sized to application and provide additional overload protection for the pump.

**PUMP INPUT POWER AND PUMP CONNECTION TERMINAL BLOCK**

**GROUND LUG**

**AUXILIARY CONTACTS**

**ALARM PACKAGE:** NEMA 4X = red beacon and horn (83 to 85 db), exterior test/normal/silence switch. NEMA 1 = door mounted red indicator and buzzer mounted internally (83 to 85 db), exterior test/normal/silence switch.



Dual safety certification for the United States and Canada.

Specifications subject to change without notice.

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**[www.libertypumps.com](http://www.libertypumps.com)**

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