

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)

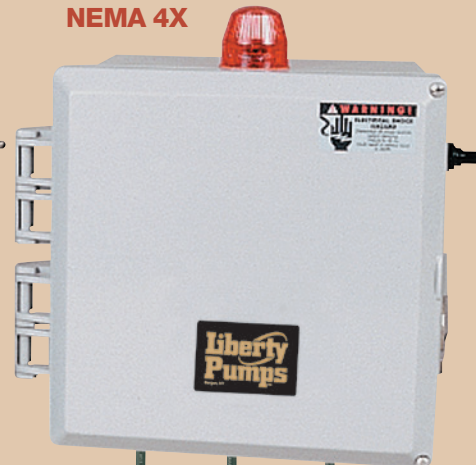
Red alarm indicator light/audible alarm

- Auxiliary Contacts
- Alarm silence and test switches
- Tri 120/208/240V. operation on single phase
- Tri 208/240/480V. operation on three phase

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
- Start/Run Capacitors

innovate. evolve.

SX-SERIES SIMPLEX PUMP CONTROLS

MODEL SPECIFICATIONS

MODEL	VOLTS	PHASE	FULL LOAD AMPS (Must match pump)	ENCLOSURE
Single Phase				
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
**SXHC24=3	120/208/240	1	15 - 20 amps	NEMA 4X
Three Phase*				
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. (35' and 50' cord length options available. Add "-3" or "-5" suffix to model number. Example: SXL21=3-5 for 50' cords.)

** SXHC24=3 includes start/run capacitors and start relay for use with LSG202M-C and LSGX202M-C models.

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".)



Dual safety certification for the United States and Canada.

Specifications subject to change without notice.

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.