

SX-SERIES

Simplex Pump Controls

Liberty Pumps®

A Family and Employee Owned Company

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.

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 1-phase
- Tri 208/240/480V operation on 3-phase



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
- Thru-door overload reset
- Beacon guard
- Thermal cutout
- Elapsed time meter
- Delay timer
- Lightning arrestor
- GFCI convenience receptacle
- Start/run capacitors



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Standard Features

Enclosure: 8" x 8" x 4"; NEMA 4X – ultraviolet stabilized thermoplastic for outdoor use; NEMA 1 – metal for indoor use. Certain options may increase enclosure size. 3-phase panels measure 12" x 10" x 6".

Magnetic Motor Contactor: Controls pump by switching hot electrical lines.

HDA Switch: Offers manual operation of pump (on circuit board).

Green Pump Run Indicator: On circuit board

Float Switch Terminal Block: On circuit board

Control/Alarm Fuses: On circuit board

Control/Alarm Power Indicator: On circuit board

Circuit Breaker: 1-phase panels include appropriately - sized circuit breakers to provide pump disconnect and branch circuit protection. 3-phase breakers sized to application and provide additional overload protection for the pump.

Pump Input Power and Pump Connection Terminal Block

Auxiliary Contacts

Ground Lug

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

MODEL	VOLTS	PHASE	FULL LOAD AMPS [Must match pumps]	ENCLOSURE
1-Phase				
SXL21=3	120/208/240	1	0-14.9A	NEMA 1
SXL24=3	120/208/240	1	0-14.9A	NEMA 4X
SXH21=3	120/208/240	1	15-20A	NEMA 1
SXH24=3	120/208/240	1	15-20A	NEMA 4X
**SXHC24=3-3	120/208/240	1	15-20A	NEMA 4X
3-Phase*				
SX34=3-131	208/240/480	3	1.6-2.5A	NEMA 4X
SX34=3-141	208/240/480	3	2.5-4.0A	NEMA 4X
SX34=3-171	208/240/480	3	4.0-6.3A	NEMA 4X
SX34=3-191	208/240/480	3	6-10A	NEMA 4X
SX34=3-511	208/240/480	3	9-14A	NEMA 4X
SX54=3-121	575	3	1.6-2.5A	NEMA 4X
SX54=3-151	575	3	2.5-4.0A	NEMA 4X
SX54=3-161	575	3	4.0-6.3A	NEMA 4X

35' and 50' cord length options available. Add "-3" or "-5" suffix to model number. Example: SXL21=3-5 for 50' cords.

*3-phase panels come equipped with thermal overload protection that must be properly sized to the pump's full load run amps.

Multi-tap transformer (208/240/480 VAC primary) provides 120V control voltage. Motor protective switch provides adjustable overload, branch circuit protection and pump disconnect. Please consult factory for proper panel selection.

** SXHC24=3-3 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: 5A, 120/230 VAC, 50/60 Hz

Float Switch: High-impact PVC

Maximum fluid temperature: 140°F

Weight: NEMA 1 Panels: 24 lbs (approx.)

NEMA 4X Panels: 19 lbs (approx.)

Liberty Pumps can customize a panel to your specific pump needs. Please contact us for available options and ordering information.