

AES-SERIES

Duplex Pump Controls

Liberty Pumps®

A Family and Employee Owned Company

For reliable control of two pumps with seal leak and motor temperature sensing in residential or commercial installations. Common applications include sump basins, effluent or sewage pump chambers and lift stations.

Features

- NEMA® 4X enclosure
- Adjustable motor overloads
- 3 or 4-Float operation
- Hand-Off-Auto switches
- Seal leak indicator lights (internal)
- Green pump run indicator lights (internal)
- Connection for motor thermostat circuits
- Terminal block for easy wiring
- Red alarm beacon
- Audible horn
- Alarm silence and test switch
- Auxiliary contacts (NO and NC)

Standard Features

Enclosure: NEMA 4X – ultraviolet stabilized thermoplastic for outdoor use. Certain options may increase enclosure size.

Dimensions: 1-Phase: 16x18x10; 3-Phase: 12x14x6

Adjustable Motor Overload: Protect motors from overcurrent due to overloading or stalling. Adjustable and set by installer based on pump FLA rating.

Motor Thermostat Connection: Allows for connection of NC motor thermostat circuits. Panel will not provide power to pumps if the motor thermostats open due to excessive motor temperature.

Seal Leak: Adjustable sensitivity range. Installer must set sensitivity when pumps are installed. A seal leak event will trigger red indicator light on board and red alarm beacon.

HOA Switches: Offer manual operation of each pump (on circuit board).

Green Pump Run Indicator: On circuit board

Float Switch Inputs: On circuit board. 3 or 4-float operation.

Float Switch Status Indicators: On circuit board. Push-to-test button for each float.

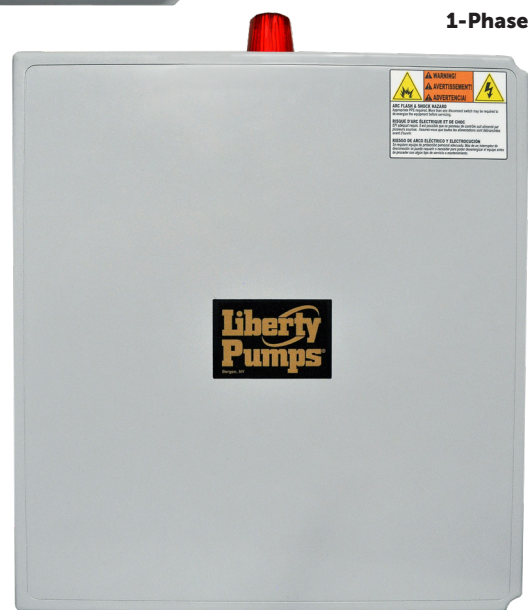
Control/Alarm Power Indicator: On circuit board

Pump Input Power and Pump Connection Terminal Block

Auxiliary Contacts: On circuit board. Board contains a NO and NC contact output. 5A max. current.

Ground Lug

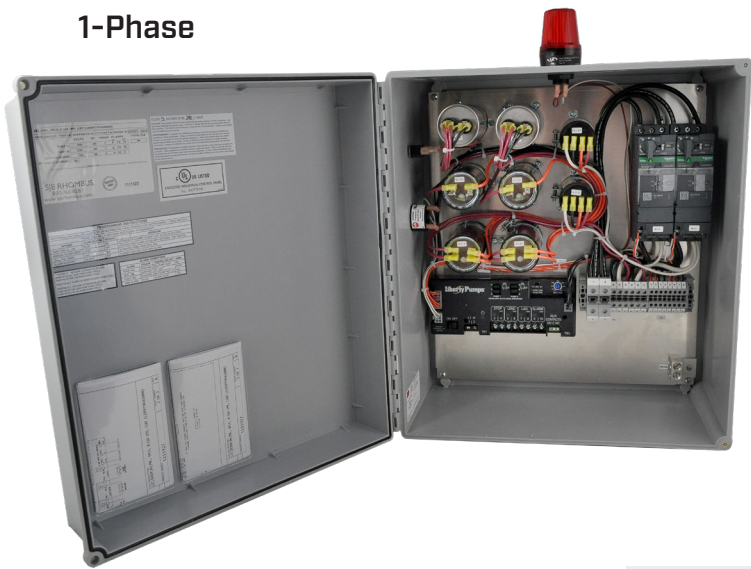
Alarm Package: Exterior red beacon and horn. Exterior test/normal/silence switch.



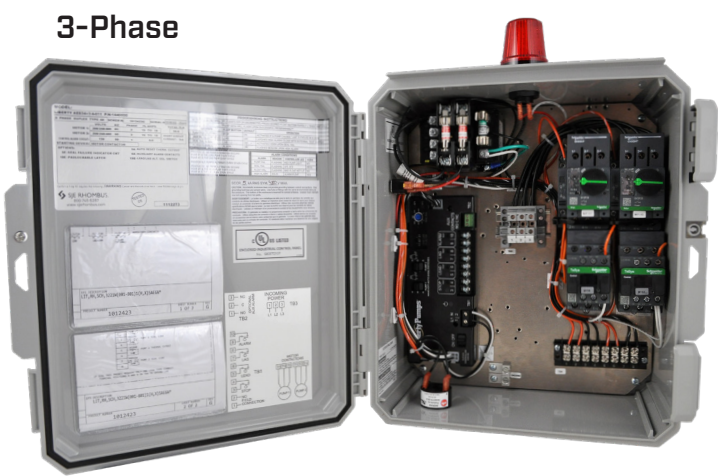
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AES-Series Duplex Panels

1-Phase



3-Phase



| MODEL | VOLTS | PHASE | FULL LOAD AMPS [Must match pump] | ENCLOSURE | FLOAT SWITCHES | APPROX. WEIGHT in LBS. |
|------------------|-------------|-------|-------------------------------------|-----------|-------------------|------------------------------|
| 1-Phase* | | | | | | |
| AES24KC=3 | 230 | 1 | 8-32 | NEMA 4X | 3 | 40 |
| AES24KC=4 | 230 | 1 | 8-32 | NEMA 4X | 4 | 40 |
| 3-Phase** | | | | | | |
| AES34=3-171 | 200/230/460 | 3 | 4-6.3 | NEMA 4X | 3 | 25 |
| AES34=4-171 | 200/230/460 | 3 | 4-6.3 | NEMA 4X | 4 | 25 |
| AES34=3-191 | 200/230/460 | 3 | 6-10 | NEMA 4X | 3 | 25 |
| AES34=4-191 | 200/230/460 | 3 | 6-10 | NEMA 4X | 4 | 25 |
| AES34=3-511 | 200/230/460 | 3 | 9-14 | NEMA 4X | 3 | 25 |
| AES34=4-511 | 200/230/460 | 3 | 9-14 | NEMA 4X | 4 | 25 |
| AES34=3-611 | 200/230/460 | 3 | 13-18 | NEMA 4X | 3 | 25 |
| AES34=4-611 | 200/230/460 | 3 | 13-18 | NEMA 4X | 4 | 25 |
| AES34=3-621 | 200/230/460 | 3 | 17-23 | NEMA 4X | 3 | 25 |
| AES34=4-621 | 200/230/460 | 3 | 17-23 | NEMA 4X | 4 | 25 |
| AES54=3-161 | 575 | 3 | 4-6.3 | NEMA 4X | 3 | 25 |
| AES54=4-161 | 575 | 3 | 4-6.3 | NEMA 4X | 4 | 25 |
| AES54=3-405 | 575 | 3 | 6-10 | NEMA 4X | 3 | 25 |
| AES54=4-405 | 575 | 3 | 6-10 | NEMA 4X | 4 | 25 |

Panels come equipped with motor overload protection that must be properly sized to the pump's full load run amps. 20' cord length standard on all models. (35' and 50' cord length options available. Add "-3" or "-5" suffix to model number. Example: SX34=3-611-5 for 50' cords.)

* 1-Phase panels feature start kits (K002080) for LSGV and LSGH series pumps installed from factory.

** Multi-tap transformer (208/240/480VAC primary) provides 120V control voltage. Please consult factory for proper panel selection.

Switch Specifications

All standard duplex panels include 3 or 4 pilot-duty float switches (depending on model). 20' cord standard. Optional lengths available. External weights or pipe clamp mounts required.

Cable: Flexible 18 gauge, 2 conductor

Electrical: 5A, 120/230VAC, 50/60Hz

Float Switch: High-impact PVC

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

1-800-543-2550