

# Liberty Pumps™

NEMA 1



NEMA 4X



## **AE-SERIES DUPLEX PUMP CONTROLS**

*Provides reliable alternating operation of two pumps with automatic override control in residential or commercial installations. Common applications include sump basins, effluent or sewage pump chambers and lift stations.*

### **STANDARD FEATURES:**

- Magnetic Motor Contactors
- HOA switches (internal)
- Green pump run indicators (internal)
- Control ON/OFF switch (internal)
- Control/Alarm power-on indicator (internal)
- Circuit breakers
- Easy wiring terminal blocks
- Visual and audible alarm

### **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

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

# AE-SERIES DUPLEX PUMP CONTROLS

## STANDARD FEATURES

**ENCLOSURE\***: 12" x 10" x 6"; NEMA 4X – ultraviolet stabilized thermoplastic for outdoor; NEMA 1 – metal for indoor use. Certain options may increase enclosure size.

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

**HOA SWITCHES**: Offer manual operation of pump on circuit board.

**GREEN PUMP RUN INDICATORS**: mounted on circuit board.

**CONTROL ON/OFF SWITCH**: mounted on circuit board.

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

\* Three phase panels measure 14" x 12" x 6". Multi-tap transformer (208/240/480 VAC primary) provides 120V control voltage. Motor protective switch provides adjustable overload, branch circuit protection and pump disconnect.

## CONTROL/ALARM FUSE

**CONTROL/ALARM POWER ON INDICATOR**: mounted on circuit board.

**FLOAT STATUS INDICATORS**: stop, lead, lag/alarm, alarm mounted on circuit board.

**CIRCUIT BREAKERS**: provide pump disconnect and branch circuit protection

## PUMP INPUT POWER AND PUMP CONNECTION TERMINAL BLOCK

## 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 buzzer mounted internally (83 to 85 db), exterior test/normal/silence switch.

## MODEL SPECIFICATIONS

MODEL	VOLTS	PHASE	FULL LOAD AMPS (Must match pump)	ENCLOSURE TYPE	FLOATS
<b>Single Phase</b>					
AE21L=3	115/230	1	0 - 7 amps	NEMA 1	3
AE21H=3	115/230	1	8 - 15 amps	NEMA 1	3
AE21L=4	115/230	1	0 - 7 amps	NEMA 1	4
AE21H=4	115/230	1	8 - 15 amps	NEMA 1	4
AE24L=3	115/230	1	0 - 7 amps	NEMA 4x	3
AE24H=3	115/230	1	8 - 15 amps	NEMA 4x	3
AE24L=4	115/230	1	0 - 7 amps	NEMA 4x	4
AE24H=4	115/230	1	8 - 15 amps	NEMA 4x	4
<b>Three Phase*</b>					
AE34=3-131	208/240/480	3	1.8 - 2.5 amps	NEMA 4x	3
AE34=3-141	208/240/480	3	2.2 - 3.2 amps	NEMA 4x	3
AE34=3-161	208/240/480	3	3.5 - 5.0 amps	NEMA 4x	3
AE34=3-171	208/240/480	3	4.5 - 6.3 amps	NEMA 4x	3
AE34=4-131	208/240/480	3	1.8 - 2.5 amps	NEMA 4x	4
AE34=4-141	208/240/480	3	2.2 - 3.2 amps	NEMA 4x	4
AE34=4-161	208/240/480	3	3.5 - 5.0 amps	NEMA 4x	4
AE34=4-171	208/240/480	3	4.5 - 6.3 amps	NEMA 4x	4
AE54=3-121	575	3	1.4 - 2.0 amps	NEMA 4x	3
AE54=4-121	575	3	1.4 - 2.0 amps	NEMA 4x	4
<b>Duplex Panels for SG202 Grinder Pumps Only</b> (See SG202 pump literature for detailed specifications of AEG-panels.)					
AEG24=3	230	1	7 - 10 amps	NEMA 4x	3
AEG24=4	230	1	7 - 10 amps	NEMA 4x	4

**NOTE**: AE-Series panels come with variable amp ranges and must be ordered with the correct matching full load amperage to that of the pump(s) being used. Use the chart above to select the proper amp range or consult the factory for technical assistance.

\* Three phase panels come equipped with thermal overload protection that must be properly sized to the pump's full-load run amps. Please consult factory for proper panel selection. All three phase "standard" panels come with NEMA 4x enclosure.

## SWITCH SPECIFICATIONS

All standard duplex panels come equipped with (3) or (4) pilot-duty float switches (depending on model). 20' cord standard. Optional lengths available. Pilot-duty floats are internally weighted for applications where the switch can be suspended from above. (External weights or pipe clamp mounts optional.)

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

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

**FLOAT**: High impact PVC

140 degrees F. maximum fluid temperature



Dual safety certification for the United States and Canada.

Specifications subject to change without notice.

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

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