

Liberty Pumps®

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
 - Auxiliary Contacts

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

NEMA 1

NEMA 4X



Other Available Options:

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

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AE-SERIES DUPLEX PUMP CONTROLS

STANDARD FEATURES

ENCLOSURE*: 10" 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

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 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
Single Phase					
AE21L=3	120/208/240	1	0 - 14.9 amps	NEMA 1	3
AE21H=3	120/208/240	1	15 - 20 amps	NEMA 1	3
AE21L=4	120/208/240	1	0 - 14.9 amps	NEMA 1	4
AE21H=4	120/208/240	1	15 - 20 amps	NEMA 1	4
AE24L=3	120/208/240	1	0 - 14.9 amps	NEMA 4X	3
AE24H=3	120/208/240	1	15 - 20 amps	NEMA 4X	3
AE24L=4	120/208/240	1	0 - 14.9 amps	NEMA 4X	4
AE24H=4	120/208/240	1	15 - 20 amps	NEMA 4X	4
Three Phase*					
AE34=3-131	208/240/480	3	1.6 - 2.5 amps	NEMA 4X	3
AE34=3-141	208/240/480	3	2.5 - 4.0 amps	NEMA 4X	3
AE34=3-171	208/240/480	3	4.0 - 6.3 amps	NEMA 4X	3
AE34=3-191	208/240/480	3	6 - 10 amps	NEMA 4X	3
AE34=3-511	208/240/480	3	9-14 amps	NEMA 4X	3
AE34=4-131	208/240/480	3	1.6 - 2.5 amps	NEMA 4X	4
AE34=4-141	208/240/480	3	2.5 - 4.0 amps	NEMA 4X	4
AE34=4-171	208/240/480	3	4.0 - 6.3 amps	NEMA 4X	4
AE34=4-191	208/240/480	3	6 - 10 amps	NEMA 4X	4
AE34=4-511	208/240/480	3	9-14 amps	NEMA 4X	4
AE54=3-121	575	3	1.6 - 2.5 amps	NEMA 4X	3
AE54=4-121	575	3	1.6 - 2.5 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

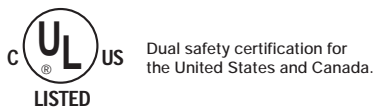
All standard duplex panels come equipped with (3) or (4) mercury-free pilot-duty float switches (depending on model). 20' cord standard. Optional lengths available. External weights or pipe clamp mounts required.

CABLE: flexible 18 gauge, 2 conductor

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

FLOAT: High impact PVC

140 degrees F. maximum fluid temperature



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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