

## 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.

- Magnetic Motor Contactors
- Hand-Off-Auto 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

### 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 Capacitor

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

Proudly engineered  
and built in the USA

# 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**

**Hand-Off-Auto 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
<b>Single Phase</b>					
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
AE24K=3	120/208/240	1	20 - 30 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
AE24K=4	120/208/240	1	20 - 30 amps	NEMA 4X	4
AE24LC2=3**	120/208/240	1	0 - 14.9 amps	NEMA 4X	3
AE24LC2=4**	120/208/240	1	0 - 14.9 amps	NEMA 4X	4
AE24HC2=3**	120/208/240	1	15 - 20 amps	NEMA 4X	3
AE24HC2=4**	120/208/240	1	15 - 20 amps	NEMA 4X	4
AE24KC2=3**	120/208/240	1	20 - 30 amps	NEMA 4X	3
AE24KC2=4**	120/208/240	1	20 - 30 amps	NEMA 4X	4
AE24HS2=3**	120/208/240	1	15 - 20 amps	NEMA 4X	3
AE24HS2=4**	120/208/240	1	15 - 20 amps	NEMA 4X	4
<b>Three Phase***</b>					
AE34=3-141	208/240/480	3	2.5 - 4 amps	NEMA 4X	3
AE34=3-171	208/240/480	3	4 - 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=3-611	208/240/480	3	13 - 18 amps	NEMA 4X	3
AE34=3-621	208/240/480	3	17 - 23 amps	NEMA 4X	3
AE34=4-141	208/240/480	3	2.5 - 4 amps	NEMA 4X	4
AE34=4-171	208/240/480	3	4 - 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
AE34=4-611	208/240/480	3	13 - 18 amps	NEMA 4X	4
AE34=4-621	208/240/480	3	17 - 23 amps	NEMA 4X	4
AE54=3-151	575	3	2.5 - 4.0 amps	NEMA 4X	3
AE54=3-405	575	3	6 - 10 amps	NEMA 4X	3
AE54=4-151	575	3	2.5 - 4.0 amps	NEMA 4X	4
AE54=4-405	575	3	6 - 10 amps	NEMA 4X	4

35' and 50' cord lengths available. Add "-3" or "-5" suffix to model number. Example: AE21L=3-3 for 35' cord.

**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.

## 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.

Liberty can customize a panel to your specific pump needs. Please contact us for available options and ordering information. 800-543-2550

\*\*Requires capacitor kit. Consult factory or pump literature for appropriate capacitor kit.

\*\*\*Three phase panels come equipped with 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.

**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.