

Manual motor controllers



Switch solutions built tough for dependable motor control

Arrow Hart's comprehensive offering of industrial grade manual motor control switches are engineered to provide reliable performance in industrial applications

Manual motor control switch AH7810UD, AH6810U features & benefits

2-Pole & 3-pole, 30A, 600V/AC models available

Compact, rugged design designed for versatile use in industrial applications

Two sets of contacts per pole distribute load energy, improving heat dissipation and providing reliable service

Heavy-duty zinc-plated strap provides durability and corrosion-resistance



Front wire screw termination

Removable terminal screws easily accommodate fork or ring terminals

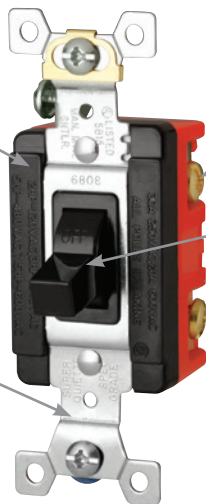
Heavy-duty brass contact arms with large silver-cadmium buttons

Manual motor control switch AH6808UDAC, AH6808UCO features & benefits

2-Pole, 30A & 40A, 600 V/AC models available

Compact construction fits all standard boxes, wallplates and covers

Heavy-duty zinc-plated strap provides durability and corrosion-resistance



Back & side wire screw terminations

Rugged impact-resistance thermoplastic toggle

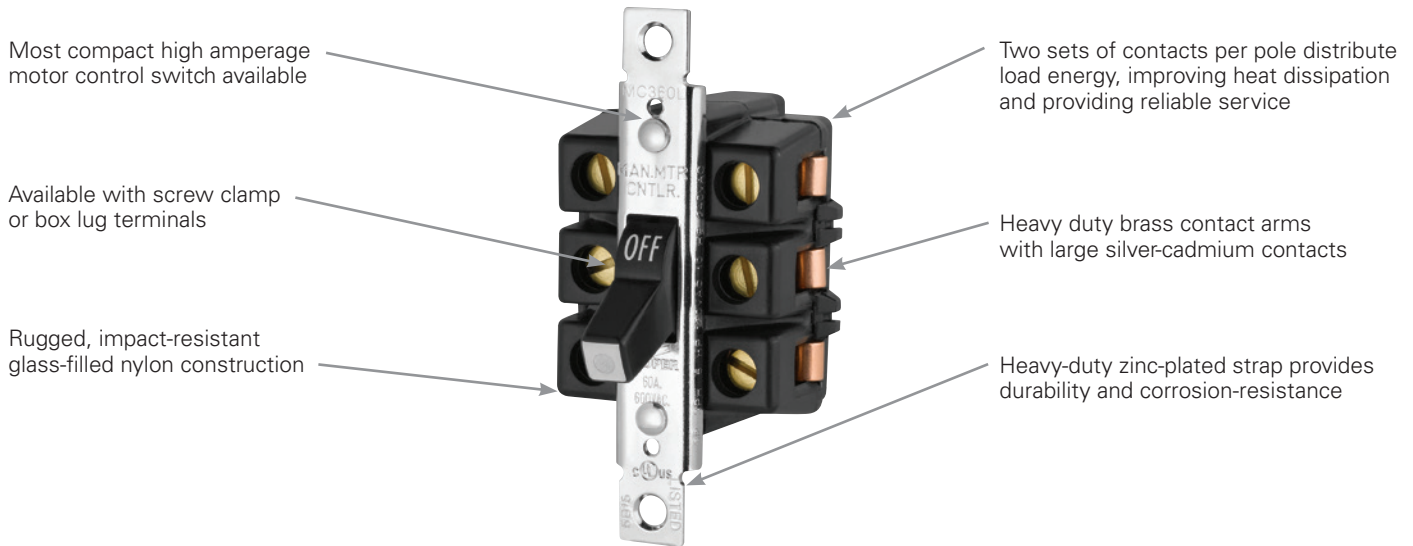
Provided with wrap-around terminal shield to provide insulation for single-gang box installation

Compliances, specifications and availability are subject to change without notice.

www.eaton.com
www.arrowhart.com

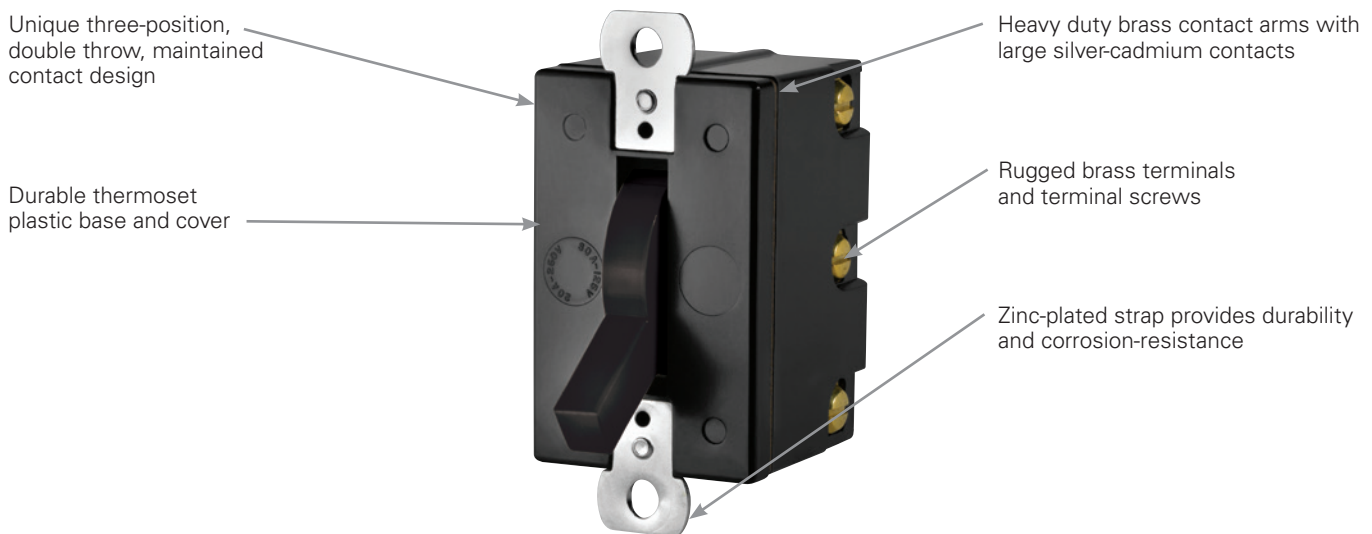
Manual motor control switch AHMC 40 & 60 series features & benefits

2-pole & 3-pole, 40A & 60A, 600V/AC models provided with box lug terminations available



Manual motor control switch AH4371, AH4361 features & benefits

2-pole, 5A, 10A, 20A, & 30A, 125/250V/AC/DC models available



Compliances, specifications and availability are subject to change without notice.

Motor control switch quick reference guide

Amps	Volts	Poles	Max. AWG wire size	Switch Cat. no.	With cover plate	With NEMA 1 enclosure	With NEMA 3R enclosure	With NEMA 3, 7 & 9 enclosure
30	600	2	10	AH6810U	AH6810F	AH6810G	AH6810W	AH6810E
30	600	3	10	AH7810UD*	AH7810FD	AH7810GD	AH7810WD	AH7810ED
40	600	2	8	AH6808UCO	—	—	—	—
40	600	2	8	AHMC240C	—	AHMC240C-1	AHMC240C-3	—
40	600	2	4	AHMC240L	—	AHMC240L-1	AHMC240L-3	—
40	600	3	8	AHMC340C	—	AHMC340C-1	AHMC340C-3	—
40	600	3	4	AHMC340L	—	AHMC340L-1	AHMC340L-3	—
60	600	2	4	AHMC260L	—	AHMC260L-1	AHMC260L-3	—
60	600	3	4	AHMC360L	—	AHMC360L-1	AHMC360L-3	—
10/20	250/125 AC/DC	2	10	AH4361	—	AH27940G	—	—
20/30	250/125 AC/DC	2	10	AH4371	—	—	—	—
20/30	600/250	2	10	AH6808UDAC	AH6808FDAC	AH6808GDAC	AH6808WDAC	—

Motor control switch enclosure quick reference guide

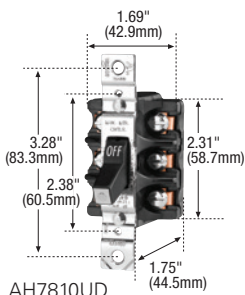
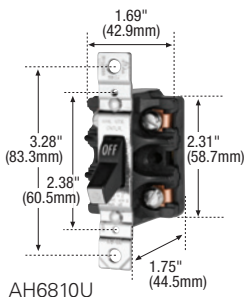
NEMA type	Description	Catalog no.	Visual reference	Drawing (Larger versions available in Technical Reference, page Q-22)
—	Cover plate	—		
Type 1	NEMA 1 enclosure, single gang	AHN1GD		
Type 1	NEMA 1 enclosure, double gang	AHN1GD2		
Type 1	NEMA 1 enclosure, double gang extra deep	AHN1GD2D		
Type 3R	NEMA 3R enclosure	AHN3WD		
Type 3, 7 & 9	Type 3, 7 & 9 enclosure, Class 1, Div 1&2, Groups C, D, Class II, Groups E, F, G	—		

Compliances, specifications and availability are subject to change without notice.

Industrial grade manual motor controllers

Product description

2-pole & 3-pole
30A, 600V/AC



Two-position, maintained contact, single throw, 2-pole, single-phase

Rating A	V/AC	Description	Termination style	Max. AWG wire size	Catalog no.		
30	600	Switch only	Front wired screw	#10 AWG	<input type="checkbox"/> AH6810U	•	•
		Switch in NEMA Type 1 enclosure	Front wired screw	#10 AWG	<input type="checkbox"/> AH6810G	•	•
		Switch in NEMA Type 3R enclosure	Front wired screw	#10 AWG	<input type="checkbox"/> AH6810W*	•	•
		Switch in NEMA Type 3, 7 & 9 enclosure for hazardous enclosures. Class I, Div. 1 & 2, Groups C, D; Class II, Groups E, F, G	Front wired screw	#10 AWG	<input type="checkbox"/> AH6810E	•	•

*For Canada, order Cat. no. AH6810WR
type 3, 7, 9 enclosure: iron back box with galvanized and acrylic paint finish copperless aluminum

Horsepower rated for motor loads per UL508

	120 V/AC	240 V/AC	480 V/AC	600 V/AC
HP	2	5	7.5	7.5

Two-position, maintained contact, single throw, 3-pole, 3-phase

Rating A	V/AC	Description	Termination style	Max. AWG wire size	Catalog no.		
30	600	Switch only	Front wired screw & clamp	#10 AWG	<input type="checkbox"/> AH7810UD	•	•
		Switch with cover plate for flush mounting	Front wired screw & clamp	#10 AWG	<input type="checkbox"/> AH7810FD	•	•
		Switch in NEMA Type 1 single-gang enclosure	Front wired screw & clamp	#10 AWG	<input type="checkbox"/> AH7810GD	•	•
		Switch in NEMA Type 1 double-gang enclosure	Front wired screw & clamp	#10 AWG	<input type="checkbox"/> AH7810GDB	•	•
		Switch in NEMA Type 3R enclosure	Front wired screw & clamp	#10 AWG	<input type="checkbox"/> AH7810WD	•	•
		Switch in NEMA Type 3, 7 & 9 Enclosure for hazardous enclosures. Class I, Div. 1 & 2, Groups C, D; Class II, groups E, F, G	Front wired screw & clamp	#10 AWG	<input type="checkbox"/> AH7810ED	•	•

Type 3, 7, 9 enclosure: iron back box with galvanized steel and acrylic paint finish copperless aluminum
Also available in Type 4X enclosure (see page E-23)

Horsepower rated for motor loads per UL508

	120 V/AC	240 V/AC	480 V/AC	600 V/AC
HP	3	7.5	15	15

Accessories for 30A manual motor controllers

Description	Catalog no.		
Empty enclosure, NEMA type 1 single-gang	<input type="checkbox"/> AHN1GD	•	•
Empty enclosure, NEMA type 3R	<input type="checkbox"/> AHN3WD	•	•
Wet-location plastic 1-gang weather protective flush mount toggle switch cover	<input type="checkbox"/> S2983	•	•
Cast aluminum single gang 3-hole powder coated back box	<input type="checkbox"/> 1113	•	•
1-Gang, standards size 302/304 stainless steel wallplate	<input type="checkbox"/> 93071	•	•



AHN1GD



AHN3WD



S2983



1113



93071

Specification information: AH6800 & AH7800 series: E-45

Compliances, specifications and availability are subject to change without notice.

Indicates NAFTA compliant - Page Q-30

RoHS compliant - Page Q-30

Industrial manual motor control switches specification & performance data

Industrial grade manual motor controllers

Product description

Single-phase & 3-phase
20/30A, 600/250V/AC; 30A, 250V/AC; 40A, 600V/AC; 30A, 600V/AC
10/20A, 250/125V/AC/DC; 20/30A, 250/125V/AC/DC

Switch type	Industrial single-phase & 3-phase maintained contact motor controllers AH6800 & AH7800 series	Industrial single-phase & 3-phase maintained contact motor controllers AHMC200 & AHMC300 series	Industrial 3-position 2-circuit maintained & momentary contact motor controllers AH4300 & AH27900 series
Wiring type	Back & side wire screw, front wired screw or front wired screw & clamp	Side wire, side wired screw & clamp, or side wired box lug	Side wired screw
Testing & code compliance	<ul style="list-style-type: none"> cULus Listed to UL508, file no. E135083 	<ul style="list-style-type: none"> cULus Listed to UL508, file no. E135083 	<ul style="list-style-type: none"> Listed to UL20, file no. E135162, except AH4300 series AH4300 series: UL recognized component
Environmental specifications	<p>Flammability: Meets UL94 requirements; V2 rated</p> <p>Temperature rating: -20°C to 65°C (-4°F to 149°F)</p>	<p>Flammability: Meets UL94 requirements; V2 rated</p> <p>Temperature rating: -20°C to 65°C (-4°F to 149°F)</p>	<p>Flammability: Meets UL94 requirements; V2 rated</p> <p>Temperature rating: -20°C to 65°C (-4°F to 149°F)</p>
Electrical specifications	<p>Dielectric voltage: Withstands 1500V per UL20</p> <p>Current interrupting: Yes, at full-rated current</p> <p>Temperature rise: Max. 30°C (86°F) after 100 cycles of overload and 30,000 cycles of endurance testing</p>	<p>Dielectric voltage: Withstands 1500V per UL20</p> <p>Current interrupting: Yes, at full-rated current</p> <p>Temperature rise: Max. 30°C (86°F) after 100 cycles of overload and 30,000 cycles of endurance testing</p>	<p>Dielectric voltage: Withstands 1500V per UL20</p> <p>Current interrupting: Yes, at full-rated current</p> <p>Temperature rise: Max. 30°C (86°F) after 100 cycles of overload and 30,000 cycles of endurance testing</p>
Mechanical specifications	<p>Terminal accommodation: #14 AWG - #10 AWG</p> <p>Voltage ratings: 600V max</p>	<p>Terminal accommodation: #14 AWG - #8 AWG; #14 AWG - #4 AWG</p> <p>Voltage ratings: 600V max</p>	<p>Terminal accommodation: #14 AWG - #10 AWG</p> <p>Voltage ratings: 600V max</p>
Materials	<p>Toggle: Glass-filled nylon</p> <p>Top housing: Glass-filled nylon</p> <p>Bottom housing: Glass-filled nylon</p> <p>Strap: Plated steel</p> <p>Terminals: Copper alloy</p> <p>Terminal screws: Plated brass</p> <p>Contacts: Silver alloy</p> <p>Moveable contact arm: Copper alloy</p>	<p>Toggle: Glass-filled nylon</p> <p>Top housing: Glass-filled nylon</p> <p>Bottom housing: Glass-filled nylon</p> <p>Strap: Plated steel</p> <p>Terminals: Copper alloy</p> <p>Terminal screws: Brass</p> <p>Contacts: Silver alloy</p> <p>Moveable contact arm: Copper alloy</p>	<p>Toggle: Thermoplastic, glass-filled nylon</p> <p>Top housing: Thermoset</p> <p>Bottom housing: Thermoset</p> <p>Strap: Plated steel</p> <p>Terminals: Copper alloy</p> <p>Terminal screws: Brass</p> <p>Contacts: Silver plated copper</p> <p>Moveable contact arm: Silver plated copper</p>