

SECTION

J



CHS Controls AB
Tel +46 42 38 61 00, Fax +46 42 38 61 29
chs@chscontrols.se www.chscontrols.se

Motor Controls

COMMERCIAL | INDUSTRIAL

Table of contents

Motor disconnects & controls families	J-2	X-Switch motor control switches	J-11
Manual motor controllers	J-3	Three-phase, 3-pole motor controllers & disconnects	
Motor control quick reference guide	J-5	30A/60A/100A, 600V/AC	J-13
Motor control switch enclosure guide	J-5	Short circuit current & horsepower ratings	J-13
Single-phase, 2-pole motor controllers			
30A, 600V/AC	J-6	Motor control disconnect switches	J-14
40A, 600V/AC	J-7	Three-phase, 3-pole non-fused manual disconnect switches	
60A, 600V/AC	J-9	30A, 60A, 600V/AC	J-15
Three-phase, 3-pole motor controllers		Single-phase & three-phase, non-fused manual disconnect switches	
30A, 600V/AC	J-6	100A, 600V/AC	J-16
40A, 600V/AC	J-8	Three-phase, fused rotary disconnects	
60A, 600V/AC	J-9	30A, 60A, 600V/AC	J-17
Three-position maintained contact motor controllers		Specification information	J-18
10/20A, 20/30A, 250/125V/AC	J-10		
20/30A, 600/250V/AC	J-10		

Motor disconnects & controls

Engineered for years of safe, dependable service, Arrow Hart's complete offering of manual motor controllers and disconnect switches are designed with a host of features that save time and labor, and are thoroughly tested to ensure reliable electrical and mechanical performance.

Motor disconnects & controls families

Motor controllers

Built tough to provide dependable manual motor control for applications up to 60A, our switches are also available in combination with a variety of enclosures for indoor and outdoor applications.



J-6

X-Switch NSF certified motor control switches

Specifically designed for use in harsh industrial environments, the X-Switch withstands repeated exposure to pressure washing now with the IP69K rating on the new enclosure, corrosive elements and a variety of contaminants.



J-13

Disconnect switches

Available in both fused and non-fused designs, these devices combine HP-rated switches in compact, durable, watertight enclosures that are NEMA Type 3R, 4X or 12 rated and fulfill NEC Article 430 requirements.



J-15

Motor control switch enclosures

Available to suit a wide variety of indoor, outdoor and hazardous environments, our enclosures are designed to protect switches from contaminants, provide OSHA compliance, and safely contain wiring.



J-6

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

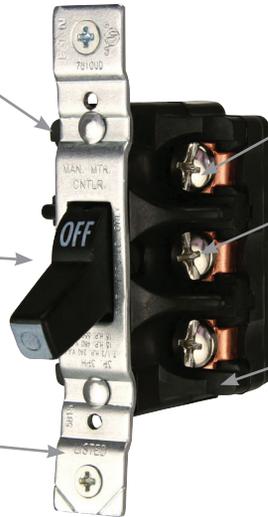
Manual motor control switch AH7810UD, AH6810U features & benefits

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 for easy installation

Removable terminal screws easily accommodate fork or ring terminals

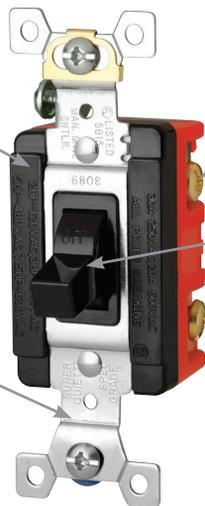
Heavy-duty brass contact arms with large silver-cadmium buttons providing longevity in demanding environments

Manual motor control switch AH6808UDAC, AH6808UCO features & benefits

2-Pole, 30A & 40A, 600V/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 for ease of installation

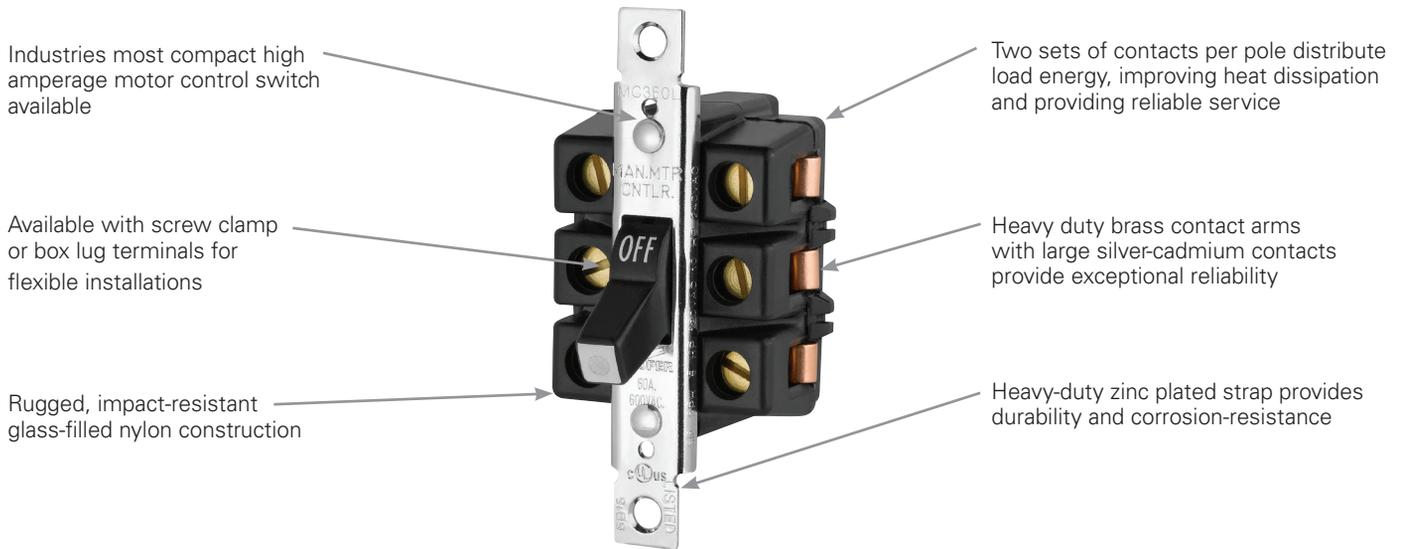
Rugged impact-resistance thermoplastic toggle for demanding environments

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

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

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 AH4361 features & benefits

2-pole, 10A, 20A, & 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 Type 1 enclosure	With NEMA Type 3R enclosure	With NEMA Type 3, 7 & 9 enclosure	
30	600	2	10	AH6810U	—	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	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, pages Q31 and Q32)
—	Cover plate	—		
Type 1	NEMA Type 1 enclosure, single gang	AHN1GD		
Type 1	NEMA Type 1 enclosure, double gang	AHN1GD2		
Type 1	NEMA Type 1 enclosure, double gang extra deep	AHN1GD2D		
Type 3R	NEMA Type 3R enclosure	AHN3WD		
Type 3, 7 & 9	NEMA Type 3, 7 & 9 enclosure, Class 1, Div 1 & 2, Groups C, D, Class II, Groups E, F, G	—		

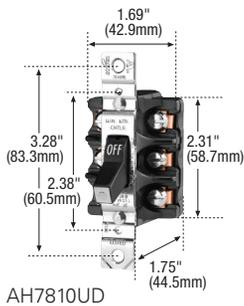
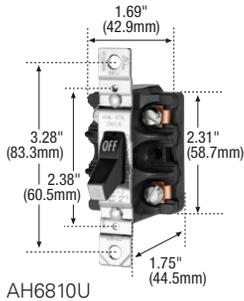
Compliances, specifications and availability are subject to change without notice.

Indicates USMCA compliant - Page Q-41

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. AH6810U-C
type 3, 7, 9 enclosure: iron back box with galvanized and acrylic paint finish copperless aluminum

Horsepower rated for motor loads per UL508

	120V/AC	240V/AC	480V/AC	600V/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 only, short strap	Front wired screw & clamp	#10 AWG	<input type="checkbox"/> AH7810UDST	•
		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 high-visibility NEMA Type 1 single-gang enclosure	Front wired screw & clamp	#10 AWG	<input type="checkbox"/> AH7810GDA	•
		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	•

*For Canada, add "-C" to Cat. no.
Type 3, 7, 9 enclosure: iron back box with galvanized steel and acrylic paint finish copperless aluminum

Horsepower rated for motor loads per UL508

	120V/AC	240V/AC	480V/AC	600V/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 1 double-gang	<input type="checkbox"/> AHN1GD2	•
Empty enclosure, NEMA Type 3R	<input type="checkbox"/> AHN3WD	•
Empty enclosure, NEMA Type 1 double-gang, extra-deep	<input type="checkbox"/> AHN1GD2D	•
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



AHN1GD2



AHN1GD2D



AHN3WD



S2983



1113



93071

Specification information: AH6800 & AH7800 series: J-19

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

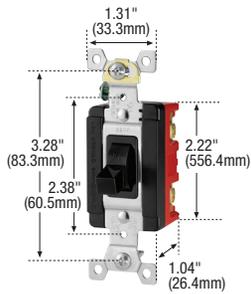


Indicates USMCA compliant - Page Q-41

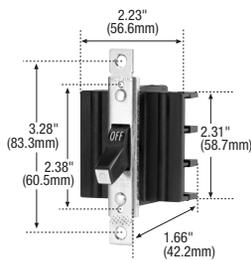
Industrial grade manual motor controllers

Product description

2-pole
40A, 600V/AC



AH6808UCO



AHMC240C



AHMC240C-1



AHMC240L-3

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



Rating A	V/AC	Description	Termination style	Max. AWG wire size	Catalog no.	
40	600	Switch only	Back & side wired screw	#8 AWG (w/ring term.)	<input type="checkbox"/> AH6808UCO	
Horsepower rated for motor loads per UL508						
			120V/AC	240V/AC	480V/AC	600V/AC
HP	-			5	-	-

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



Rating A	V/AC	Description	Termination style	Max. AWG wire size	Catalog no.	
40	600	Switch only	Side wired screw & clamp	#8 AWG	<input type="checkbox"/> AHMC240C	
		Switch in NEMA Type 1 enclosure	Side wired screw & clamp	#8 AWG	<input type="checkbox"/> AHMC240C-1	
		Switch in NEMA Type 3R enclosure	Side wired screw & clamp	#8 AWG	<input type="checkbox"/> AHMC240C-3	
		Switch only	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC240L	
		Switch in NEMA Type 1 enclosure	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC240L-1	
		Switch in NEMA Type 3R enclosure	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC240L-3	

Horsepower rated for motor loads per UL508

	120V/AC	240V/AC	480V/AC	600V/AC
HP	3	5	15	15

Accessories for 40A manual motor controllers



Description	Catalog no.	
Empty enclosure, NEMA Type 1 single-gang	<input type="checkbox"/> AHN1GD	
Empty enclosure, NEMA Type 1 double-gang	<input type="checkbox"/> AHN1GD2	
Empty enclosure, NEMA Type 3R	<input type="checkbox"/> AHN3WD	
Empty enclosure, NEMA Type 1 double-gang, extra-deep	<input type="checkbox"/> AHN1GD2D	
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



AHN1GD2



AHN1GD2D



AHN3WD



S2983



1113



93071

Specification information: AH6800 series: J-19, AHMC200 series: J-19

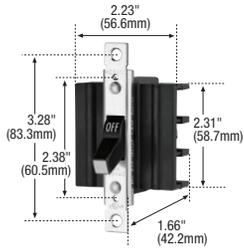
Compliances, specifications and availability are subject to change without notice.

Indicates USMCA compliant - Page Q-41

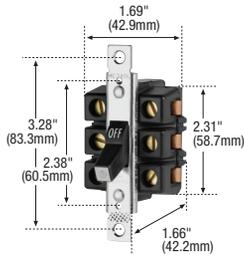
Industrial grade manual motor controllers

Product description

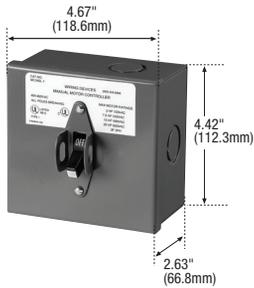
3-pole
40A, 600V/AC



AHMC340C



AHMC340L



AHMC340L-1

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

Rating A V/AC	Description	Termination style	Max. AWG wire size	Catalog no.	
40 600	Switch only	Side wired	#8 AWG	<input type="checkbox"/> AHMC340C	•
	Switch in NEMA Type 1 enclosure	Side wired	#8 AWG	<input type="checkbox"/> AHMC340C-1	•
	Switch in NEMA Type 3R enclosure	Side wired	#8 AWG	<input type="checkbox"/> AHMC340C-3	•
	Switch only	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC340L	•
	Switch in NEMA Type 1 enclosure	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC340L-1	•
	Switch in NEMA Type 3R enclosure	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC340L-3	•

Horsepower rated for motor loads per UL508

	120V/AC	240V/AC	480V/AC	600V/AC
HP	3	7.5	15	20

Accessories for 40A manual motor controllers

Description	Catalog no.	
Empty enclosure, NEMA Type 1 single-gang	<input type="checkbox"/> AHN1GD	•
Empty enclosure, NEMA Type 1 double-gang	<input type="checkbox"/> AHN1GD2	•
Empty enclosure, NEMA Type 3R	<input type="checkbox"/> AHN3WD	•
Empty enclosure, NEMA Type 1 double-gang, extra-deep	<input type="checkbox"/> AHN1GD2D	•
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



AHN1GD2



AHN1GD2D



AHN3WD



S2983



1113



93071

Specification information: AHMC300 series: J-19

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

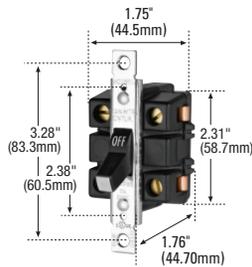


Indicates USMCA compliant - Page Q-41

Industrial grade manual motor controllers

Product description

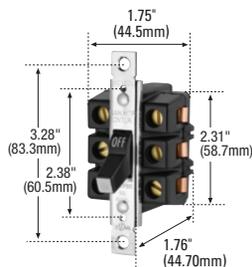
2-pole & 3-pole
60A, 600V/AC



AHMC260L



AHMC260L-1



AHMC360L

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

Rating A	V/AC	Description	Termination style	Max. AWG wire size	Catalog no.	
60	600	Switch only	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC260L	•
		Switch in NEMA Type 1 enclosure	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC260L-1	•
		Switch in NEMA Type 3R enclosure	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC260L-3	•

Horsepower rated for motor loads per UL508

	120V/AC	240V/AC	480V/AC	600V/AC
HP	3	5	15	15

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

Rating A	V/AC	Description	Termination style	Max. AWG wire size	Catalog no.	
60	600	Switch only	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC360L	•
		Switch in NEMA Type 1 enclosure	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC360L-1	•
		Switch in NEMA Type 3R enclosure	Side wired box lug	#4 AWG	<input type="checkbox"/> AHMC360L-3	•

Horsepower rated for motor loads per UL508

	120V/AC	240V/AC	480V/AC	600V/AC
HP	5	10	25	30

Accessories for 60A manual motor controllers

Description	Catalog no.	
Empty enclosure, NEMA Type 1 single-gang	<input type="checkbox"/> AHN1GD	•
Empty enclosure, NEMA Type 1 double-gang	<input type="checkbox"/> AHN1GD2	•
Empty enclosure, NEMA Type 3R	<input type="checkbox"/> AHN3WD	•
Empty enclosure, NEMA Type 1 double-gang, extra-deep	<input type="checkbox"/> AHN1GD2D	•
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



AHN1GD2



AHN1GD2D



AHN3WD



S2983



1113



93071

Specification information: AHMC200 & AHMC300 series: J-19

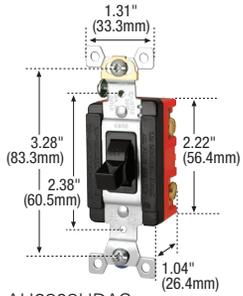
Compliances, specifications and availability are subject to change without notice.

Indicates USMCA compliant - Page Q-41

Industrial grade manual motor controllers

Product description

2-pole
 10/20A, 250/125V/AC or DC
 20/30A, 250/125V/AC or DC
 20/30A, 600/250V/AC



AH6808UDAC



AH6808GDAC

Three-position, maintained contact, double throw, 2-pole, single-phase

Rating A	V/AC/DC	Description	Termination style	Max. AWG wire size	Catalog no.
10	250	Switch, center OFF, black	Side wired screw	#10 AWG	□ AH4361
20	125	Switch, center OFF, in NEMA Type 1 enclosure	Side wired screw	#10 AWG	□ AH27940G

Horsepower rated for motor loads per UL508

	240V/AC	250V/AC/DC	250 V/DC
HP	2	—	1.5

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

Rating A	V/AC	Description	Termination style	Max. AWG wire size	Catalog no.	
20	600	Switch only	Back & side wired screw	#10 AWG	□ AH6808UDAC	•
30	250	Switch with cover plate for flush mounting	Back & side wired screw	#10 AWG	□ AH6808FDAC	•
		Switch in NEMA Type 1 enclosure	Back & side wired screw	#10 AWG	□ AH6808GDAC	•
		Switch in NEMA Type 3R copperless aluminum enclosure	Back & side wired screw	#10 AWG	□ AH6808WDAC	•

Horsepower rated for motor loads per UL508

	120V/AC	240V/AC	480V/AC	600V/AC
HP	2	3	5	7.5

Specification information: AH6800 series: J-19

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



Indicates USMCA compliant - Page Q-41

Choose the switch designed for longevity in complex environments

The Arrow Hart X-Switch excels where standard industrial switches are most susceptible to fail: in physically abusive areas exposed to washdowns, extreme temperatures, chemicals and corrosive elements.

X-Switch motor control disconnect switches

30A, 60A, 100A
Motor control
disconnect
X-Switch



Applications

X-Switch is designed specifically for industrial manufacturing applications exposed to frequent washdowns.

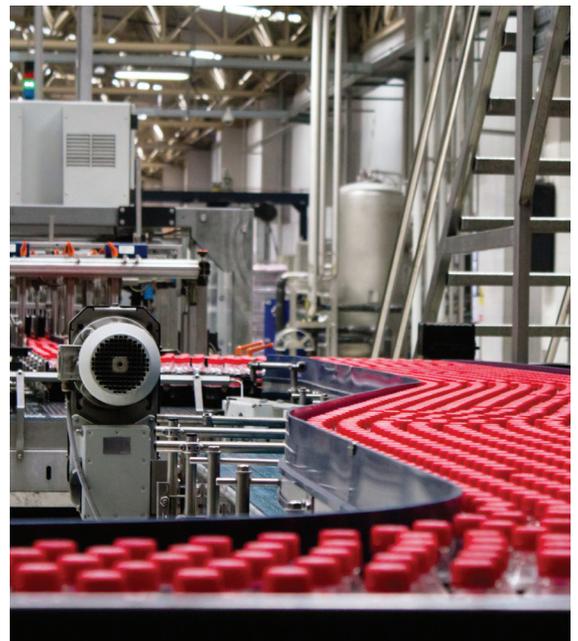
UL 508 motor controller "suitable as motor disconnect" to comply with requirements of NEC® 430.

X-Switch is ideal for food processing, storage and service. Applications include meat and poultry processing, dairy, bottling, bakeries, distilleries and commercial kitchens.

X-Switch is also ideal for harsh environments such as mining, wastewater treatment, testing labs and heavy industrial manufacturing.

X-Switch enclosures are specially designed to prevent the penetration of external contaminants while delivering dependable motor control.

A variety of input/output options including a location for a breather drain and pre-designated center punch locations provide for maximum flexibility and customization.



X-Switch motor control disconnect switches

NSF certified motor control solution

Designed specifically around the needs of the food & beverage industry's processing areas, Arrow Hart's X-switch is the ideal motor control solution for complex environments.

Features & benefits

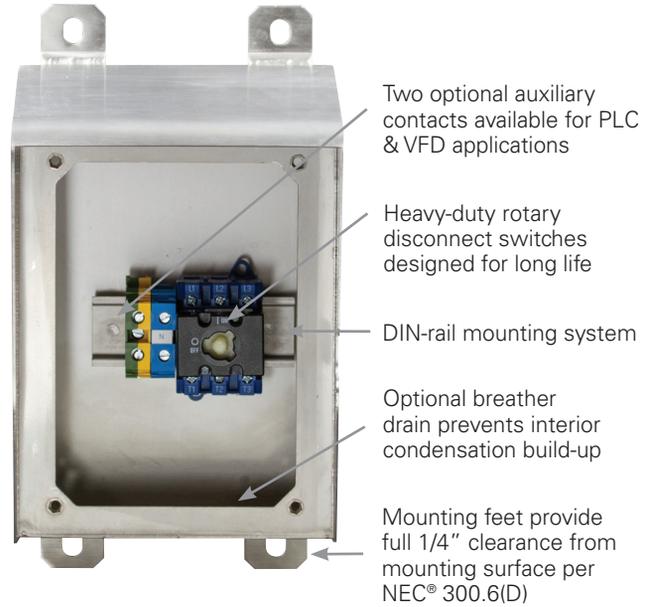
Multiple input and output configurations available



Sloped enclosure enhances washdown and water run off

Compact NEMA Type 4X - 316L stainless steel enclosure is ideal for washdown environments

High-visibility red handle can be padlocked to meet OSHA lockout/tagout requirements



Two optional auxiliary contacts available for PLC & VFD applications

Heavy-duty rotary disconnect switches designed for long life

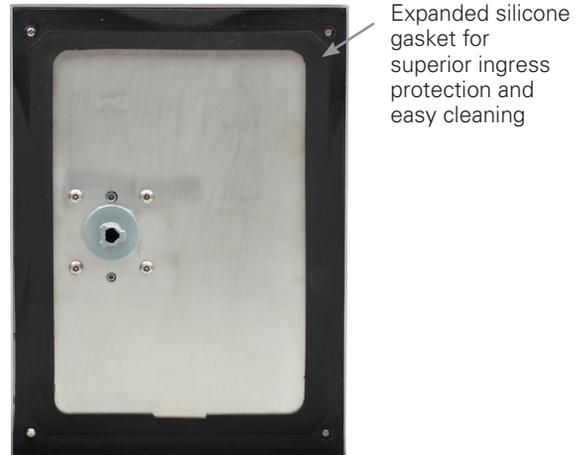
DIN-rail mounting system

Optional breather drain prevents interior condensation build-up

Mounting feet provide full 1/4" clearance from mounting surface per NEC® 300.6(D)

NSF NSF Listed for use in food processing areas per NSF 3-A 14159-1 standard

IP69K
certified



Expanded silicone gasket for superior ingress protection and easy cleaning

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

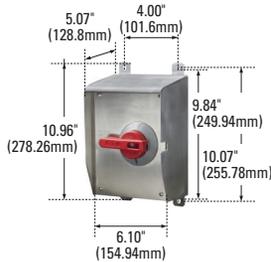
Industrial grade complex environment switch

Product description

3-pole, 3-phase
30A, 60A or 100A, 600V/AC max.
NEMA Type 4X, 12 & IP66, IP69K

Features

- NSF certified for use in food processing areas per NSF 3-A 14159-1
- Can be padlocked to conform to OSHA lockout/tagout 1910.147 requirements
- Compact size and small footprint designed for installation versatility
- Durable, NEMA Type 4X enclosure is made of non-magnetic, non-corrosive type 316L stainless steel ideal for washdown environments
- IP69K breather drain option available to prevent interior condensation buildup (enclosure with breather drain is NSF listed, IP69K certified)
- IP69K rated for high temperature & high pressure wash down
- Mounting feet provide 1/4" spacing from mounting surface (NEC® 300.6(D))
- 30A, 60A & 100A switch options available
- Heavy-duty switch designed to deliver dependability, long life and excellent electrical continuity
- Auxiliary contact options available for PLCs and external indicators (break after main break, make before main make)
- Durable lever handle and switch mechanism will withstand repeated use in harsh environments



30A X-Switch



60A & 100A X-Switch

Common X-Switch Configurations

Catalog No.	Description	Amp	UL®	NSF
□ AHDS30SSR	Motor Control Disconnect X-Switch, NEMA 4X	30	•	•
□ AHDS60SSR	Motor Control Disconnect X-Switch, NEMA 4X	60	•	•
□ AHDS100SSR	Motor Control Disconnect X-Switch, NEMA 4X	100	•	•
□ AHDS30RS	Replacement switch	30	•	
□ AHDS60RS	Replacement switch	60	•	
□ AHDS100RS	Replacement switch	100	•	
□ AHDS30RAC	Aux contact - PLC	30	•	
□ AHDS30RVFD	Aux contact - VFD	30	•	
□ AHDS60RAC	Aux contact - PLC	60	•	
□ AHDS60RVFD	Aux contact - VFD	60	•	
□ AHDS100RAC	Aux contact - PLC	100	•	
□ AHDS100RVFD	Aux contact - VFD	100	•	
□ AHDS30CH	X-Switch Conduit Hub, Size 3/4"	For 30A Enclosure	•	
□ AHDS60CH	X-Switch Conduit Hub, Size 1-1/4"	For 60A Enclosure	•	
□ AHDS100CH	X-Switch Conduit Hub, Size 2"	For 100A Enclosure	•	
□ AHDSBD	Breather Drain IP69K rated	—	•	
□ AHDS30RTCASSR	Replacement top cover assembly	For 30A Enclosure		
□ AHDS61RTCASSR	Replacement top cover assembly	For 60/100A Enclosure		

Short Circuit Current Ratings

30A X-Switch SCCR:

Suitable for use as a Motor Disconnect with the following short-circuit current ratings:

- 65kA RMS symmetrical amps, 600 VAC max. when protected with 40A class J fuses

60A X-Switch SCCR:

Suitable for use as a Motor Disconnect with the following short-circuit current ratings:

- 65kA RMS symmetrical amps, 600 VAC max. when protected with 70A class J fuses

100A X-Switch SCCR:

Suitable for use as a Motor Disconnect with the following short-circuit current ratings:

- 65kA RMS symmetrical amps, 600 VAC max. when protected with 100A class J fuses

Max Horse Power Ratings

Voltage	30A	60A	100A
1Ø 120 VAC	1.5	3	5
1Ø 220 - 240 VAC	5	7.5	15
1Ø 277 VAC	5	7.5	15
1Ø 440 - 480 VAC	7.5	15	30
3Ø 220 - 240 VAC	10	15	25
3Ø 440 - 480 VAC	20	30	50
3Ø 600 VAC	25	40	50

Specification information: X-Switch series: J-18

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

Non-fused 30 or 60 Ampere motor control disconnect switch "Suitable as Motor Disconnect" per NEC® 430.102(B) and 430.109(A)(6)

Arrow Hart's new line of NEMA Type 4X disconnect switches are made from VALOX™ resin and are a flexible and economical solution to 3-phase power switching applications. They are ideal for washdown and corrosive environments where an OSHA lockout/tagout disconnecting means is required. They also are suitable for use with metallic conduit and are available with auxiliary contacts for a variety of control circuit applications.

Motor control disconnect switch (non-fused)

Features & benefits

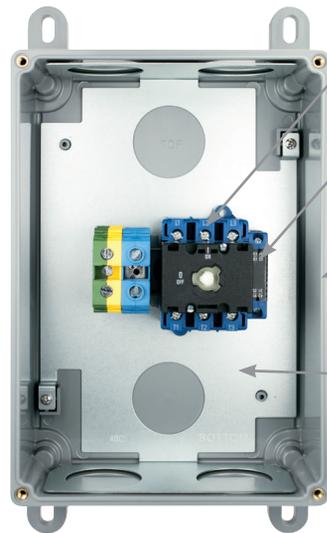
Optional 1/4" gap or flush mount feet for easy washdown

Captivated, combination head stainless steel screws for long life and easy access

Thermoplastic enclosure made from VALOX™ resin provides high impact strength and excellent corrosion resistance

High-visibility red handle can be padlocked to meet OSHA lockout/tagout requirements

Adjustable mounting feet for flexible positioning options



Heavy-duty industrial switches designed for long life

Optional auxiliary contact for PLC and VFD applications available

One piece gasket provides superior watertight protection and easy cleaning

Integrated grounding plate and DIN rail mounting allows automatic grounding and easy installation

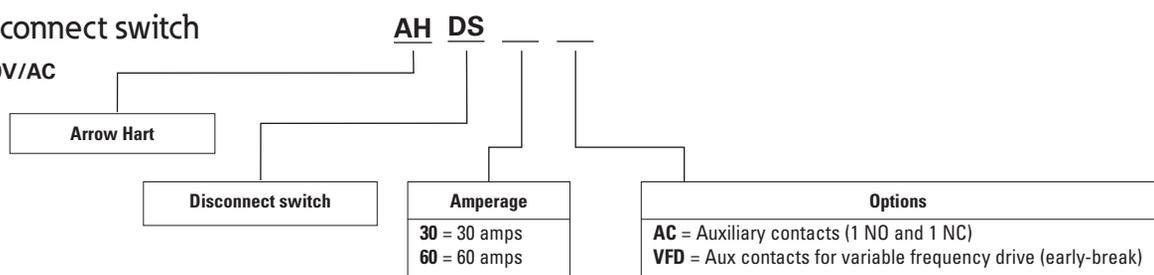


NSF Listed for use in food processing areas per NSF 3-A 14159-1 standard

Motor control disconnect switch

3-pole, 30A or 60A, 600V/AC

Motor control disconnect switch
Sample number:
AH30AC



VALOX™ is a registered trademark of SABIC or its affiliates or subsidiaries

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

Motor control disconnect switch (non-fused)

Non-fused 30 or 60 ampere motor control disconnect switch

Product description

3-pole, 3-phase
30A or 60A, 600V/AC max.
NEMA Type 4X, 12 & IP67

Features

- Durable, NEMA Type 4X thermoplastic enclosure made from Valox™ resin is ideally suited to withstand corrosive environments
- Compact size and small footprint designed for installation versatility
- Can be padlocked to conform to OSHA lock-out, tag-out 1910.147 requirements
- Robust mounting feet provide either flush mount or 1/4" spacing allowing washdown behind the enclosure (NEC® 300.6(D))
- Mounting feet are adjustable for flexible horizontal or vertical positioning
- DIN rail and integrated grounding plate allow easy installation
- Two Myers hubs are included to compliment NEMA Type 4X installation
- Heavy duty switch designed to deliver dependability, long life, and excellent electrical continuity
- Auxiliary contact option available (early make, late break)
- Auxiliary contact for variable frequency drive (VFD) application is also available (late make, early break)
- Both auxiliary contacts come with one set of Normally Open (NO) and one set of Normally Closed (NC) contacts
- Durable lever handle and switch mechanism will withstand repeated use in harsh environments
- Short circuit current ratings up to 65kA



30A disconnect switch



60A disconnect switch

Horsepower ratings

Voltage	30A	60A
1Ø 120V	1	2
1Ø 220-240V	3	5
1Ø 277V	3	7.5
1Ø 440-480V	5	10
3Ø 220-240V	5	10
3Ø 440-480V	10	20
3Ø 600V	10	20

Motor control disconnect switches



Rating A	V/AC	Description	Catalog no.
30	600 max.	30A disconnect switch	<input type="checkbox"/> AHDS30
		30A disconnect switch aux contacts	<input type="checkbox"/> AHDS30AC
		30A disconnect switch var freq drive	<input type="checkbox"/> AHDS30VFD
60	600 max.	60A disconnect switch	<input type="checkbox"/> AHDS60
		60A disconnect switch aux contacts	<input type="checkbox"/> AHDS60AC
		60A disconnect switch var freq drive	<input type="checkbox"/> AHDS60VFD

Accessories for motor control disconnect switches

Description	Catalog no.
Replacement switch 30A	<input type="checkbox"/> AHDS30RS
Replacement aux contact - PLC 30A	<input type="checkbox"/> AHDS30RAC
Replacement aux contact - VFD 30A	<input type="checkbox"/> AHDS30RVFD
Replacement neutral terminal 30A	<input type="checkbox"/> AHDS30RNT
Replacement top cover assembly 30A	<input type="checkbox"/> AHDS30RTCA
Replacement top cover assembly 30A PLC	<input type="checkbox"/> AHDS30RTCAP
Replacement top cover assembly 30A VFD	<input type="checkbox"/> AHDS30RTCAV
Replacement mounting feet - standard 30A	<input type="checkbox"/> AHDS30RMFS
Replacement switch 60A	<input type="checkbox"/> AHDS60RS
Replacement aux contact - PLC 60A	<input type="checkbox"/> AHDS60RAC
Replacement aux contact - VFD 60A	<input type="checkbox"/> AHDS60RVFD
Replacement neutral terminal 60A	<input type="checkbox"/> AHDS60RNT
Replacement top cover assembly 60A	<input type="checkbox"/> AHDS60RTCA
Replacement top cover assembly 60A PLC	<input type="checkbox"/> AHDS60RTCAP
Replacement top cover assembly 60A VFD	<input type="checkbox"/> AHDS60RTCAV

Specification information: Disconnect switches (non-fused) series: J-18

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

Disconnect switches

Industrial grade enclosed manual disconnects

Product description

Single-phase & 3-phase
100A, 600V/AC max.

Non-fused disconnect switches, 3-phase

Rating		Description	Catalog no.
A	V/AC		
100	600	Non-fused disconnect switch with auxiliary contacts	<input type="checkbox"/> AH100MS2-M2

Horsepower rated for motor loads per UL508

	240V/AC	480V/AC	600V/AC
3-Phase, HP	25	50	50



AH100MS2-M2

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

Motor control disconnect switches (fused)

Bussmann fused rotary disconnects

Product description

3-pole, 3-phase
30A or 60A, 600V/AC max.
NEMA Type 4X, 12

Features

- Lock/tagout: Up to three ¼" shank padlocks can be installed on external handles
- Multiple field installed accessories to enhance the enclosed disconnect switches to fit the desired application
- Auxiliary contacts
- NEMA Type 4X polycarbonate construction
- Uses class J fuses such as Bussmann LPJ
- UL98 Listed for general purpose, main disconnect, or branch circuit protection up to 600V/AC file E182262
- UL508 Listed for motor disconnect applications up to 600V/AC File E155129
- cULus Listed to CSA Standard 22.2, No. 14, No. 4
- Conforms with IEC 60947-3



ER4P-30J3PB



ER4P-60J3PB

Bussmann fused rotary disconnect switches

Rating		Description	Max. HP rating	Catalog no.
A	V/AC			
30	600 max.	30A fused rotary disconnect switch	20	<input type="checkbox"/> ER4P-30J3PB
60	600 max.	60A fused rotary disconnect switch	50	<input type="checkbox"/> ER4P-60J3PB

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

Motor control disconnect switch (fused & non-fused) specification & performance data

Motor controllers & disconnects switches

Product description

3-pole, 3-phase
30A, 60A or 100A, 600V/AC max.

Device type	30A , 60A & 100A X-Switch motor controllers & disconnects	30 & 60A - disconnect switches (non-fused)
Testing & code compliance	<ul style="list-style-type: none"> cULus Listed to UL508, file no. E135083 NSF evaluated for use in hose-down areas and to NSF/ANSI/3-A Standard 14159-1 Hygiene requirements for the design of meat and poultry processing equipment 	<ul style="list-style-type: none"> cULus Listed to UL60947-1 & UL60947-4, file no. E135083 NSF evaluated for use in hose-down areas and to NSF/ANSI/3-A Standard 14159-1 Hygiene requirements for the design of meat and poultry processing equipment
Environmental specifications	<p>Flammability: Meets UL94 requirements; rated 94-5V</p> <p>Temperature rating: -40°C to 105°C (-40°F to 221°F)</p> <p>Protection: NEMA Type 4X, 12 & IP66, IP69K</p>	<p>Flammability: UL94 V0 and 5VA Classification</p> <p>Temperature rating**: Max continuous: +60°C (+140°F) Min continuous (without impact): -50°C (-58°F)</p> <p>Water/moisture resistance: NEMA Type 3, 3R, 4, 4X, 12 & IP67</p> <p>UV resistance: All enclosure materials are UV stabilized</p>
Electrical specifications	<p>Maximum continuous current: 30A, 60A, 100A</p> <p>Endurance, mechanical: 10,000 cycles minimum</p> <p>Endurance, electrical: 6,000 cycles minimum</p> <p>Short circuit current rating (SCCR): Rated up to 65,000A RMS symmetrical amps, see chart</p> <p>Motor loads: Horsepower rated per UL508, see chart</p>	<p>Dielectric voltage: 2200V AC minimum</p> <p>Endurance, mechanical: 10,000 cycles minimum</p> <p>Max operating voltage: 600V/AC</p> <p>Short circuit current rating (SCCR)*: 10,000 RMS symmetrical amps with RK1 fuse 65,000 RMS symmetrical amps with J fuse***</p>
Mechanical specifications	<p>Terminal accommodation: (30A) #10 AWG; (60A) #6 AWG; (100A) #1/0 AWG</p> <p>Voltage ratings: Permanently marked on device</p>	<p>Voltage ratings: Identification and ratings are part of internal and external label.</p> <p>Mounting: External adjustable feet with three positions (0, 45 & 90 degrees) 30A - flush and non-flush mounting feet options</p>
Material	<p>Enclosure - body: 14 gauge type 316L Stainless steel</p> <p>Enclosure handle: PC/PBT</p> <p>Enclosure gasket: Expanded silicone</p> <p>Enclosure - screws: Captivated tri-Combo</p> <p>Lock-out/tag-out bracket: Polycarbonate/Polybutylene Terephthalate (PC/PBT)</p> <p>Manual contactor contacts: Silver</p> <p>Manual contactor moveable arm: Brass</p> <p>Manual contactor terminal screws: Nickel plated 260 brass</p> <p>Manual contactor terminal type: 30A - front-wire screw termination; 40A & 60A - box lug termination</p> <p>Mounting feet: 11 gauge type 316L Stainless steel</p>	<p>Enclosure - base: PC/PBT</p> <p>Enclosure - screws: 300 Series stainless steel (captivated)</p> <p>Enclosure - top cover: PC/PBT</p> <p>Grounding - assembly screw: 300 series stainless steel</p> <p>Grounding - plate: Steel - galvanized</p> <p>Handle: PC/PBT</p> <p>Handle - screw: 300 series stainless steel (tamper resistant type)</p> <p>Handle - seal: Neoprene</p> <p>Handle - shaft: PC/PBT</p> <p>Mounting feet: PC/PBT</p> <p>Mounting feet - assembly screws: 300 series stainless steel</p> <p>Threaded inserts: Brass</p>
Optional equipment materials	<p>Breather drain material: Type 304 stainless steel</p> <p>Breather drain gasketing: Expanded silicone rubber</p>	

* Break all lines.

**When used with 75°C copper wire only.

***Not applicable for 1 Ø 120 and 277 applications

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

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

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	Flammability: Meets UL94 requirements; V2 rated Temperature rating: -20°C to 65°C (-4°F to 149°F)	Flammability: Meets UL94 requirements; V2 rated Temperature rating: -20°C to 65°C (-4°F to 149°F)	Flammability: Meets UL94 requirements; V2 rated Temperature rating: -20°C to 65°C (-4°F to 149°F)
Electrical specifications	Dielectric voltage: Withstands 1500V per UL20 Current interrupting: Yes, at full-rated current Temperature rise: Max. 30°C (86°F) after 100 cycles of overload and 30,000 cycles of endurance testing	Dielectric voltage: Withstands 1500V per UL20 Current interrupting: Yes, at full-rated current Temperature rise: Max. 30°C (86°F) after 100 cycles of overload and 30,000 cycles of endurance testing	Dielectric voltage: Withstands 1500V per UL20 Current interrupting: Yes, at full-rated current Temperature rise: Max. 30°C (86°F) after 100 cycles of overload and 30,000 cycles of endurance testing
Mechanical specifications	Terminal accommodation: #14 - #10 AWG Voltage ratings: 600V max	Terminal accommodation: #14 - #8 AWG; #14 - #4 AWG Voltage ratings: 600V max	Terminal accommodation: #14 - #10 AWG Voltage ratings: 600V max
Materials	Toggle: Glass-filled nylon Top housing: Glass-filled nylon Bottom housing: Glass-filled nylon Strap: Plated steel Terminals: Copper alloy Terminal screws: Plated brass Contacts: Silver alloy Moveable contact arm: Copper alloy	Toggle: Glass-filled nylon Top housing: Glass-filled nylon Bottom housing: Glass-filled nylon Strap: Plated steel Terminals: Copper alloy Terminal screws: Brass Contacts: Silver alloy Moveable contact arm: Copper alloy	Toggle: Thermoplastic, glass-filled nylon Top housing: Thermoset Bottom housing: Thermoset Strap: Plated steel Terminals: Copper alloy Terminal screws: Brass Contacts: Silver plated copper Moveable contact arm: Silver plated copper

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