Industrial specification grade AC toggle switches

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:



AH1223W



AH1201PL



3031V



Description

15A & 20A, 120/277V/AC; 30A, 120/277V/AC Single-Pole, Double-Pole, 3-Way, 4-Way

Design features

- 120/277V/AC rating ideal for fluorescent lighting fixtures typical in commercial applications
- · Lighted version toggle glows when in the OFF position
- Color-coded faces identify amperage: blue=15 amp, red=20 amp, green=30 amp
- 0.050" (1.27mm) thick steel mounting strap, nickel plated for corrosion resistance (pilot light and lighted switch straps are zinc plated)

Table 1. Back & Side Wire

Catalog No.	Description	Amps	Volts	Color Suffix	#	(
☐ AH1201	Single-Pole	15	120/277	B, GY, RD, V, W		•
☐ AH1202	Double-Pole	15	120/277	B, GY, V, W		•
☐ AH1203	3-Way	15	120/277	B, GY, RD, V, W		•
☐ AH1204	4-Way	15	120/277	B, GY, V, W		•
□ AH1221	Single-Pole	20	120/277	B, BK, GY, LA, RD, V, W		•
☐ AH1222	Double-Pole	20	120/277	B, GY, RD, V, W		•
□ AH1223	3-Way	20	120/277	B, BK, GY, LA, RD, V, W		•
□ AH1224	4-Way	20	120/277	B, BK, GY, LA, RD, V, W		•
□ 3031	Single-Pole	30	120/277	B, RD, V, W		
□ 3032	Double-Pole	30	120/277	B, RD, W		

Table 2. Lighted Back & Side Wire

Catalog No.	Description	Amps	Volts	Color Suffix	#	(
☐ AH1201LT	Single-Pole Lighted	15	120/277	V, W	•	•
☐ AH1203LT	3-Way Lighted	15	120/277	V, W	•	•
☐ AH1221LT	Single-Pole Lighted	20	120/277	V, W	•	•
☐ AH1223LT	3-Way Lighted	20	120/277	V, W	•	•

Table 3. Pilot Light Back & Side Wire

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Description	Amps	Volts	Color		\$	•
Single-Pole Pilot Lighted	15	120/277	RD		•	•
Double-Pole Pilot Lighted	15	120/277	RD		•	•
Single-Pole Pilot Lighted	20	120/277	RD		•	•
Double-Pole Pilot Lighted	20	120/277	RD		•	•
Double-Pole Pilot Lighted	30	120/277	RD			•
	Single-Pole Pilot Lighted Double-Pole Pilot Lighted Single-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot	Single-Pole Pilot Lighted Double-Pole Pilot Lighted Single-Pole Pilot Lighted Single-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Jouble-Pole Pilot Jouble-Pole Pilot Jouble-Pole Pilot Jouble-Pole Pilot	Single-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Lighted Single-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot 30 120/277	Single-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Lighted Single-Pole Pilot Lighted Double-Pole Pilot 30 120/277 RD	Single-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Lighted Single-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Jouble-Pole Pilot	Single-Pole Pilot Lighted Double-Pole Pilot Lighted Double-Pole Pilot Lighted Single-Pole Pilot Lighted Double-Pole Pilot Souther State Stat





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Applications

Industrial grade switches incorporate the most durable design elements in the industry and are horsepower rated to handle motor loads.

Table 4. Specifications

Catalog No.	AH1200 and AH1220 Series	AH1200 and AH1220 Lighted and Pilot Light Series
	15A and 20A 120/277V Industrial Grade Toggle Switches	15A and 20A 120/277V Industrial Grade Toggle Switches
Wiring Type	Back & side wire	Back & side wire
Testing & Code Compliance	cULus Listed to UL 20, file no. E18704 UL Verified to Federal Spec WS-896-F	cULus Listed to UL 20, file no. E18704 UL Verified to Federal Spec WS-896-E CSA Certified to C22.2, no. 111, file no. 10016 (6241-05)
Environmental Specifications	Flammability: Meets UL94 requirements; V2 rated Temperature Rating: -20°C to 60°C (-4°F to 140°F)	Flammability: Meets UL94 requirements; V0 rated Temperature Rating: -20°C to 60°C (-4°F to 140°F)
Electrical Specifications	Dielectric Voltage: Withstands 1500V per UL 20 Current Interrupting: Yes, at full-rated current Temperature Rise: Max. 30°C (86°F) after 100 cycles of over- load and 30,000 cycles of endurance testing	Dielectric Voltage: Withstands 1500V per UL 20 Current Interrupting: Yes, at full-rated current Temperature Rise: Max. 30°C (86°F) after 100 cycles of over- load and 30,000 cycles of endurance testing
Mechanical Specifications	Terminal Accommodation: #14 - 10 AWG Voltage Ratings: Permanently marked on device Horsepower Ratings: Rated for loads per UL 20: 15A: @ 120V/AC = 1/2 HP, @ 240V/AC=2 HP; max. amps 12A 20A: @ 120V/AC = 1 HP, @ 240V/AC = 2 HP; max. amps 16A	Terminal Accommodation: #14 - 10 AWG Voltage Ratings: Permanently marked on device Horsepower Ratings: Rated for loads per UL 20: 15A: @ 120V/AC = 1/2 HP, @ 240V/AC=2 HP; max. amps 12A 20A: @ 120V/AC = 1 HP, @ 240V/AC = 2 HP; max. amps 16A

Table 5. Materials

Catalog No.	AH1200 and AH1220 Series	AH1200 and AH1220 Lighted and Pilot Light Series
	15A and 20A 120/277V Industrial Grade Toggle Switches	15A and 20A 120/277V Industrial Grade Toggle Switches
Toggle	Nylon	Urea
Top Housing	Polycarbonate, color-coded by amperage	Urea, color-coded by amperage
Bottom Housing	Polycarbonate	Phenolic
Strap	0.050" thick steel, nickel plated	0.050" thick steel, zinc plated
Auto Ground Clip	0.015" thick brass	0.030" thick brass
Terminals	0.030" thick brass	0.031" thick brass
Terminal Screws	#10-32 brass, black	#8-32 brass, black
Ground Screw	#8-32 steel, zinc plated, green	#8-32 steel, zinc plated, green
Back wire Clamp	0.070" plated steel (terminal screws), 0.50" (ground screw)	0.068" thick brass
Contacts	Silver alloy	Silver alloy
Moveable Contact Arm	0.030" thick brass	0.031" thick brass
Illuminated Models	N/A	Long-life neon bulb
Pilot Light Models	N/A	Red polycarbonate toggle with long-life neon bulb

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

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Table 6. Specifications

Catalog No.	3030 Series
	30A 120/277V Industrial Grade Toggle Switches
Wiring Type	Back & side wire
Testing & Code Compliance	cULus Listed to UL 20, file no. E18704 UL Verified to Federal Spec WS-896-F
Environmental Specifications	Flammability: Meets UL94 requirements; V0 rated Temperature Rating: -20°C to 60°C (-4°F to 140°F)
Electrical Specifications	Dielectric Voltage: Withstands 1500V per UL 20 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: Permanently marked on device Horsepower Ratings: Rated for loads per UL 20: 30A: @ 120V/AC = 1 HP, @ 240V/AC=2 HP; max. amps 24A

Table 7. Materials

Catalog No.	3030 Series		
	30A 120/277V Industrial Grade Toggle Switches		
Toggle	Nylon		
Top Housing	Polycarbonate, color-coded green		
Bottom Housing	Polycarbonate		
Strap	0.050" thick steel, nickel plated		
Auto Ground Clip	0.015" thick brass		
Terminals	0.030" thick high performance copper alloy		
Terminal Screws	#10-32 brass, neutral screw nickel plated		
Ground Screw	#8-32 steel, zinc plated, green		
Back wire Clamp	0.070" plated steel (terminal screws), 0.50" (ground screw)		
Contacts	Silver alloy		
Moveable Contact Arm	0.031" thick brass		
Pilot Light Models	Red polycarbonate toggle with long-life LED		

Table 8. Color Ordering Information

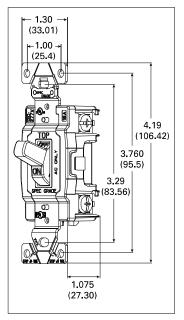
For ordering devices, include Catalog No. followed by the Color Suffix: B (Brown), BK (Black), GY (Gray), LA (Light Almond), RD (Red), V (Ivory), W (White)



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Product Dimensions



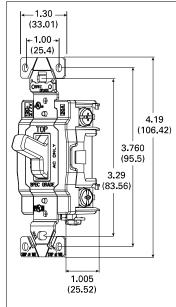


Figure 1. AH1200 Series

Figure 2. AH1220 Series

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

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