## Commercial grade switches

Designed for reliability and durability in commercial applications
Arrow Hart's commercial grade switches are designed to provide superior quality, reliability and performance in a variety of commercial environments

## Commercial grade AC switch features \& benefits



A complete line of switches available for any commercial application:


Lighted \& pilot lighted


Combination switches


CuVerro ${ }^{\circledR}$ antimicrobial surfaces


Commercial grade CSB series


Commercial grade CS series

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## Commercial grade switches



## Commercial grade AC toggle combination switches

## Product description

Single-pole, 3-way
15A, 120/277V/AC; 15A, 120V/AC
20A, 120V/AC
Toggle combination switches, back \& side wire © (4L) $\frac{\sqrt{10 M}}{426}$

| Rating |  |  | Color suffix | Catalog no. | (1) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | 120/277 | (2) Single-pole, switches | A, B, LA, V, W | $\square 271$ | $\bullet$ |
|  |  | (1) Single-pole, switch with <br> (1) 3-Way switch | B, LA, V, W | $\square 275$ | - |
|  |  | (2) 3-Way, switches | LA, V, W | $\square 276$ | $\bullet$ |
| 15 | 120 | (1) Single-pole, switch $1 / 25 \mathrm{w}$ <br> (1) 125 V pilot light | B, LA, V, W | $\square 277$ _* | $\bullet$ |
|  |  | (1) 3 -Way, switch w/pilot light $1 / 25 \mathrm{w}$ <br> (1) 125 V pilot light | B, V | $\square 294 \ldots$ | $\bullet$ |

* Not NOM cert

Toggle switch with receptacle, back \& side wire (4L) $\frac{\sqrt{10 M}}{426}$ ©(4L) us

| Rating |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| A | V/AC | Description | Color suffix | Catalog no. | ( |
| $\begin{aligned} & 15 \\ & 15 \end{aligned}$ | $\begin{aligned} & 120 \\ & 125 \end{aligned}$ | (1) Single-pole, switch with nema 5-15 <br> (1) 2-Pole, 3-wire tamper resistant receptacle | A, B, BK, LA, V, W | $\square$ TR274 | - |
| $\begin{aligned} & 15 \\ & 15 \end{aligned}$ | $\begin{aligned} & 120 \\ & 125 \end{aligned}$ | (1) 3-Way switch with nema 5-15 <br> (1) 2-Pole, 3-wire tamper resistant receptacle | A, B, BK, LA, V, W | $\square$ TR293 | - |
| $\begin{aligned} & 15 \\ & 20 \end{aligned}$ | $\begin{aligned} & 120 \\ & 125 \end{aligned}$ | (1) Single-pole, switch with nema 5-20 <br> (1) 2-Pole, 3-wire tamper resistant receptacle | A, B, BK, LA, V, W | $\square$ TR291__* | - |



Color ordering information:
For ordering devices, include Catalog no. Followed by the Color suffix: A (Almond), B (Brown), BK (Black), LA (Light Almond), V (Ivory), W (White)

| A | B | BK | LA | v | w |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (Almond) | (Brown) | (Black) | (Lt. Almond) | (lvory | (White) |

Specification information: 120/277 V/AC commercial toggle combination: E-40
Compliances, specifications and availability are subject to change without notice.

# Commercial toggle switches specification \& performance data 

## Commercial grade switches

## Product description

Single-pole, double-pole, 3-way, 4-way
15A \& 20A, 120/277V/AC
$15 \mathrm{~A}, 120 / 277 \mathrm{~V} /$ AC with $15 \mathrm{~A}, 125 \mathrm{~V} /$ AC receptacle

| Switch type | Commercial 15A \& 20A 120/277V toggle switches: CSB series | Commercial 15A \& 20A 120/277V toggle switches: CS series | Commercial 15A toggle combination switches: 270 series, 294 | Commercial 15A 120-15A, 125V toggle combo switch \& receptacle: TR274, TR291, TR293 |
| :---: | :---: | :---: | :---: | :---: |
| Wiring type | Back \& side wire | Side wire | Back \& side wire | Back \& side wire |
| Testing \& code compliance | - cULus Listed to UL20, file no. E18704 <br> - UL verified to Fed Spec WC-896G | - cULus Listed to UL20, file no. E18704 <br> - UL verified to Fed Spec WC-896G <br> - CSA certified to C22.2, no. 11 file no. 10016 (6241-05) | - cULus Listed to UL20, file no. E18704 (combination) <br> - CSA certified to C22.2, no. 11 file no. 10016 (6241-05) <br> - NOM certified | - Listed to UL20/UL498, file no. E18704 (combination) <br> - NOM certified, except 291 |
| Environmental specifications | Flammability: Meets UL94 requirements; VO rated | Flammability: Meets UL94 requirements; V0 rated | Flammability: Meets UL94 requirements; V2 rated | Flammability: Meets UL94 requirements; V2 rated |
|  | Temperature rating: $-20^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$ ( $-4^{\circ} \mathrm{F}$ to $140^{\circ} \mathrm{F}$ ) | Temperature rating: $-20^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$ ( $-4^{\circ} \mathrm{F}$ to $140^{\circ} \mathrm{F}$ ) | Temperature rating: $-20^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$ ( $-4^{\circ} \mathrm{F}$ to $140^{\circ} \mathrm{F}$ ) | Temperature rating: $-20^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$ ( $-4^{\circ} \mathrm{F}$ to $140^{\circ} \mathrm{F}$ ) |
| Electrical specifications | Dielectric voltage: Withstands 1500 V per UL20 | Dielectric voltage: Withstands 1500 V per UL20 | Dielectric voltage: Withstands 1500V per UL20 | Dielectric voltage: <br> Switch: Withstands 1500 V per UL20 Receptacle: Withstands 2000V per UL498 |
|  | Current interrupting: Yes, at fullrated current | Current interrupting: Yes, at fullrated current | Current interrupting: Yes, at fullrated current | Current interrupting: Yes, at fullrated current |
|  | Temperature rise: Max. $30^{\circ} \mathrm{C}\left(86^{\circ} \mathrm{F}\right)$ after 100 cycles of overload and 50,000 cycles of endurance testing | Temperature rise: Max. $30^{\circ} \mathrm{C}\left(86^{\circ} \mathrm{F}\right)$ after 100 cycles of overload and 50,000 cycles of endurance testing | Temperature rise: Max. $30^{\circ} \mathrm{C}\left(86^{\circ} \mathrm{F}\right)$ after 100 cycles of overload and 30,000 cycles of endurance testing | Temperature rise: <br> Switch: Max. $30^{\circ} \mathrm{C}\left(86^{\circ} \mathrm{F}\right)$ after 100 cycles of overload and 30,000 cycles of endurance testing <br> Receptacle: Max. $30^{\circ} \mathrm{C}\left(86^{\circ} \mathrm{F}\right)$ after 100 cycles of overload at $150 \%$ of rated current (DC) |
| Mechanical specifications | Terminal accommodation: \#14-10 AWG | Terminal accommodation: \#14-10 AWG | Terminal accommodation: \#14-12 AWG | Terminal accommodation: \#14-12 AWG |
|  | Voltage ratings: Permanently marked on device | Voltage ratings: Permanently marked on device | Voltage ratings: Permanently marked on device | Voltage ratings: Permanently marked on device |
|  | Horsepower ratings: Rated for motor loads per UL20: 15A: @ 120V/AC = 1/2 HP, @ 240V/AC = 2 HP; @ 277V/AC = 2 HP, max. amps 12A. 20A: @ 120V/AC = 1 HP, @ 240V/AC = 2 HP; @ 277V/AC = 2 HP, max. amps 16A | Horsepower ratings: Rated for motor loads per UL20: 15A: @ 120V/AC = 1/2 HP, @ 240V/AC = 2 HP ; @ 277V/AC = 2 HP, max. amps 12A. 20A: @ 120V/AC = $1 \mathrm{HP}, @ 240 \mathrm{~V} / \mathrm{AC}=2 \mathrm{HP}$; @ 277V/AC = 2 HP, max. amps 16A | Horsepower ratings: Rated for motor loads per UL20: 15A: @ 120V/AC = 1/2 HP, @ 240V/AC = 2 HP; @ 277V/AC = 2 HP, max. amps 12A | Horsepower ratings: Switch rated for motor loads per UL20: 15A: @ $120 \mathrm{~V} / \mathrm{AC}=1 / 2 \mathrm{HP}, @ 240 \mathrm{~V} / \mathrm{AC}=2 \mathrm{HP}$; @ $277 \mathrm{~V} / \mathrm{AC}=2 \mathrm{HP}$, max. amps 12A |
| Materials | Toggle: Nylon | Toggle: Nylon | Toggle: Nylon | Toggle: Nylon |
|  | Top housing: PVC | Top housing: PVC | Top housing: PVC | Top housing: PVC |
|  | Bottom housing: PVC | Bottom housing: PVC | Bottom housing: PVC | Bottom housing: PVC |
|  | Strap: 0.045 " thick steel, zinc plated | Strap: 0.045" thick steel, zinc plated | Strap: 0.045" thick steel, zinc plated | Strap: 0.045" thick steel, zinc plated |
|  | Terminal screws: \#8-32 steel, brass plated or zinc plated | Terminal screws: \#8-32 steel, brass plated or zinc plated | Terminal screws: \#8-32 steel, brass plated; neutral screw nickel plated | Terminal screws: \#8-32 steel, brass plated; neutral screw nickel plated |
|  | Ground screw: \#8-32 steel, zinc plated, green | Ground screw: \#8-32 steel, zinc plated, green | Ground screw: \#8-32 steel, zinc plated, green | Ground screw: \#8-32 steel, zinc plated, green |
|  | Back wire clamp: Brass | Back wire clamp: N/A | Back wire clamp: Brass | Back wire clamp: Brass |
|  | Contacts: Silver alloy | Contacts: Silver alloy | Contacts: Silver alloy | Contacts: Silver alloy |
|  | Moveable contact arm: Brass | Moveable contact arm: Brass | Moveable contact arm: Brass | Moveable contact arm: Brass |
|  | Pilot light models: $\mathrm{N} / \mathrm{A}$ | Pilot light models: $\mathrm{N} / \mathrm{A}$ | Pilot light models: Red polycarbonate pilot lens with long-life neon bulb | Pilot light models: N/A |
|  | Receptacle line contacts: N/A | Receptacle line contacts: $\mathrm{N} / \mathrm{A}$ | Receptacle line contacts: N/A | Receptacle line contacts: $0.030^{\prime \prime}$ thick brass |
|  | Receptacle ground shunt: N/A | Receptacle ground shunt: N/A | Receptacle ground shunt: N/A | Receptacle ground shunt: 0.030 " thick brass |


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