

Switches

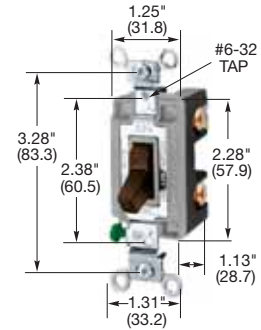
15 and 20 Ampere, 120-277 Volts AC

Specification Grade Commercial Series
AC Toggle Switches with Ground Screw



Specification Grade Commercial Series, Back and Side Wired 15A, 120-277V AC

Description	Catalog Numbers			
	Single Pole	Double Pole	Three Way	Four Way
Almond toggle.	CSB115AL	CSB215AL	CSB315AL	CSB415AL
Black toggle.	CSB115BK	CSB215BK	CSB315BK	CSB415BK
Brown toggle.	CSB115	CSB215	CSB315	CSB415
Gray toggle.	CSB115GY	CSB215GY	CSB315GY	CSB415GY
Ivory toggle.	CSB115I	CSB215I	CSB315I	CSB415I
Light Almond toggle.	CSB115LA	CSB215LA	CSB315LA	CSB415LA
White toggle.	CSB115W	CSB215W	CSB315W	CSB415W



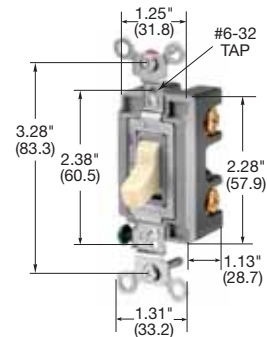
CSB120

20A, 120-277V AC

Description	Catalog Numbers			
	Single Pole	Double Pole	Three Way	Four Way
Almond toggle.	CSB120AL	CSB220AL	CSB320AL	CSB420AL
Black toggle.	CSB120BK	CSB220BK	CSB320BK	CSB420BK
Brown toggle.	CSB120	CSB220	CSB320	CSB420
Gray toggle.	CSB120GY	CSB220GY	CSB320GY	CSB420GY
Ivory toggle.	CSB120I	CSB220I	CSB320I	CSB420I
Office White toggle.	CSB120OW	CSB220OW	CSB320OW	CSB420OW
Light Almond toggle.	CSB120LA	CSB220LA	CSB320LA	CSB420LA
Red toggle.	CSB120R	CSB220R	CSB320R	CSB420R
White toggle.	CSB120W	CSB220W	CSB320W	CSB420W

Specification Grade Commercial Series, Side Wired Only 15A, 120-277V AC

Description	Catalog Numbers			
	Single Pole	Double Pole	Three Way	Four Way
Almond toggle.	CS115AL	-	CS315AL	-
Brown toggle.	CS115	-	CS315	-
Gray toggle.	CS115GY	-	CS315GY	-
Ivory toggle.	CS115I	-	CS315I	-
Light Almond toggle.	CS115LA	-	CS315LA	-
Office White toggle.	CS115OW	-	CS315OW	-
White toggle.	CS115W	-	CS315W	-



CS115I

20A, 120-277V AC

Description	Catalog Numbers			
	Single Pole	Double Pole	Three Way	Four Way
Almond toggle.	CS120AL	-	CS320AL	-
Brown toggle.	CS120	-	CS320	-
Gray toggle.	CS120GY	-	CS320GY	-
Ivory toggle.	CS120I	-	CS320I	-
Light Almond toggle.	CS120LA	-	CS320LA	-
Office White toggle.	CS120OW	-	CS320OW	-
White toggle.	CS120W	-	CS320W	-

Notes: See section K for full line of wallplates.
For accessories, see pages C-17 to C-19.
See pages C-29 and C-30 for wiring diagrams.

HP Conversion Chart

	120V	208V	240V	277VAC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP
30A	2HP	2HP	2HP	2HP



AC Switches

Technical Information

HBL® Extra Heavy Duty Industrial Grade Switches

SP, DP, 3-Way, 4-Way**Specifications**

Listings	Component	Material
UL Listed	Base	Thermoset, Color Coded by Amperage
CSA Certified	Top	Thermoset, Gray
Verified to Fed. Spec. W-S-896, SP, DP, 3-way and 4-way	Toggle	Nylon
	Terminals	Brass
	Terminal Screws	Brass
	Mounting Bridge	Nickel Plated Steel
	Contacts	Silver Alloy
	Moveable Contact Arm	Brass
	Rocker	Elastomer
	Ground Terminal	Nickel-Plated Steel
	Ground Screw	Brass
	Automatic Grounding Clip	Stainless Steel

Performance Data**Electrical**

Dielectric Voltage	Withstands 1500V AC minimum for 1 minute.
Max. Working Voltage	277V AC.
Overload	Minimum 4.8 times rated current for 100 cycles.
Temperature Rise	30° C maximum at rated current.
Max. Continuous Current	15A, 20A, 30A.
Endurance	50,000 cycles min., tungsten filament lamp load Fed. Spec. #WS896, SP, DP, 3-way and 4-way.

Mechanical

Terminal Accommodations	#14 AWG min. - #10 AWG max. solid and stranded copper wire only.
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Environmental

Flammability	UL 94V-2.
Operating Temperature	Max. continuous: 75° C; Min. continuous: -40° C w/o impact.

AC Switches

Technical Information

Heavy Duty Manual Motor Controllers

30, 40 & 60A, Double Pole and Three Pole**Specifications**

Listings	Component	Material
UL Listed 508 Industrial Control Equipment	Base	Thermoset
CSA-C22.2 No. 14 Industrial Control Equipment	Cover	Thermoset
UL File E70402	Yoke	Zinc Plated Steel
CSA File LR-46186	Toggle	Nylon
	Terminal Screws	Copper Alloy
	Contact Blades	Copper Alloy
	Contacts	Silver Alloy
	Brush Lifter	Thermoplastic

Performance Data

Electrical	
Dielectric Voltage	2,200V AC max for 1 minute.
Electrical Life (Minimum)	6,000 cycles at rated switch parameters.
Working Voltage	600V AC RMS.
Short Circuit Withstand Rating (Motor Disconnect)	5,000 and 10,000 RMS with RK5 fuses at rated switch value and Class "J" fuses as marked.
Operating Temperature	Min. continuous: -40° C w/o impact.
Mechanical Life (minimum)	10,000 Cycles.
Terminal Torque (30A, 40A, 50A)	20 inch pounds.
Terminal Torque (60A, 85A)	25 inch pounds.

Mechanical

Terminal Accommodations	30A #14 AWG min. - #10 AWG max. solid and stranded copper wire only.
	40A #14 AWG min. - #8 AWG max. solid and stranded copper wire only.*
	50A #14 AWG min. - #8 AWG max. solid and stranded copper wire only.*
	60A #14 AWG min. - #4 AWG max. solid and stranded copper wire only.
	85A #14 AWG min. - #4 AWG max. solid and stranded copper wire only.

Note: *Use listed/certified ring terminal.

Field Wiring Terminal Ratings

Wire range, copper wire only	30A controller - #10 AWG 3 phase; #8 AWG 1 phase.
	40A controller - #8 AWG.
	50A controller - #8 AWG 75° C.
	60A controller - #6 AWG 75° C; #4 AWG 60° C.
	85A controller - #4 AWG 75° C.