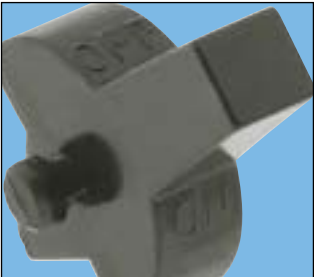
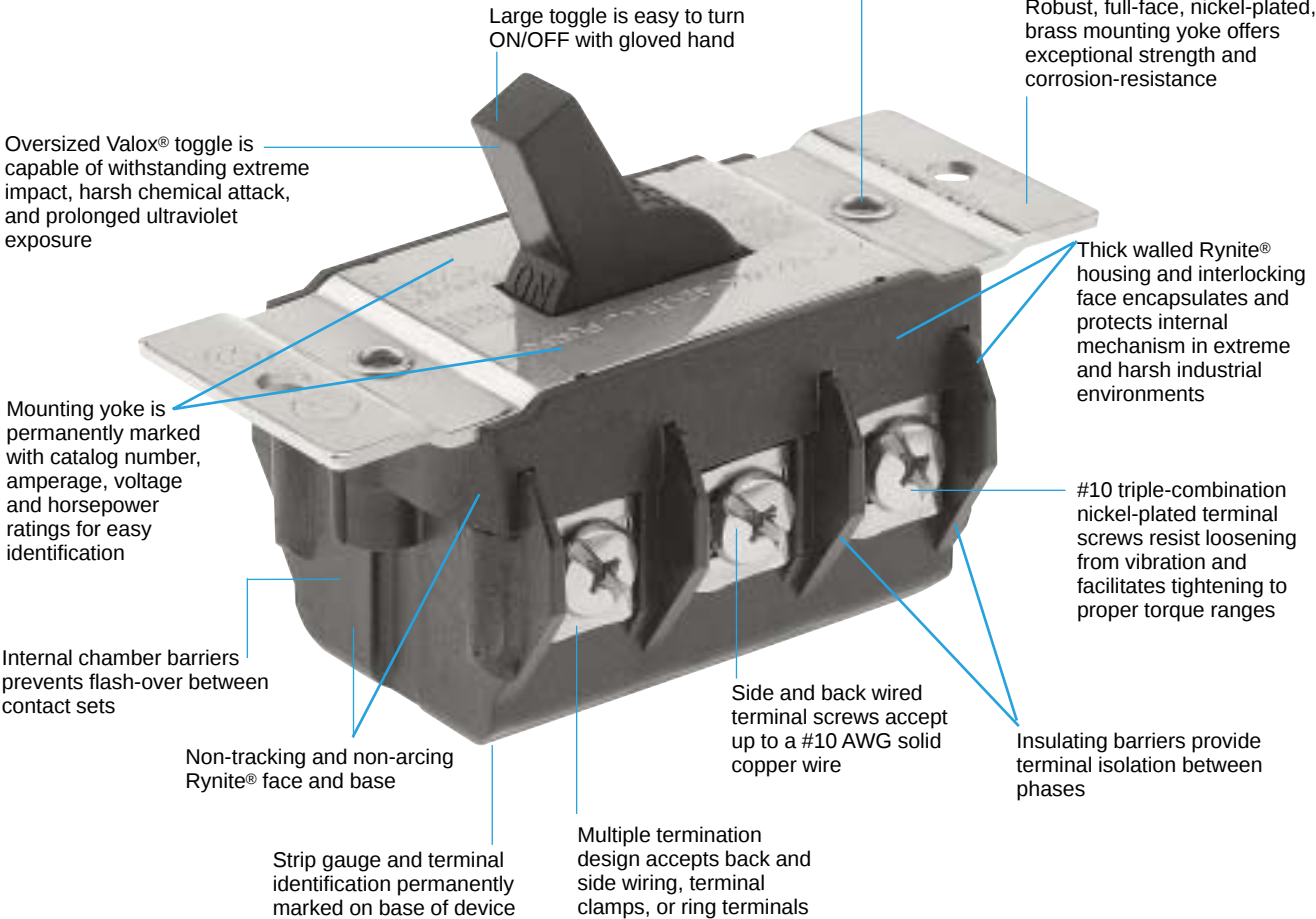


Motor Starting Switch Features



10 YEAR LIMITED
WARRANTY

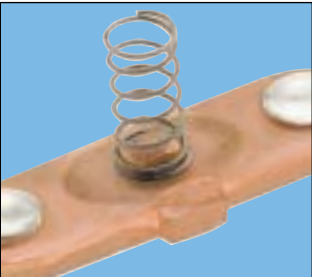
UL 508 Listed
CUL per CSA Specification C22.2 No.14 Certified



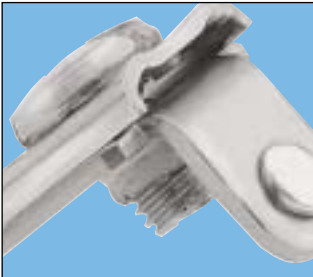
Virtually unbreakable thermoplastic toggle is ideal for high-abuse applications.



Stall-resistant one-piece Valox® cam provides fast-make/slow-break actuation.



High-performance silver-cadmium oxide contacts minimize wear and erosion.



High-conductive nickel-plated brass terminal screws improve current flow and prolong component life.

COMPONENT	DESCRIPTION
Mounting Yoke	.062" Nickel-Plated Brass
Base	Rynite®
Toggle	Valox®
Face	Rynite®
Contacts	.063" Thick Silver Cadmium Oxide
Triple Drive #10 Terminal Screws	#10-32 Nickel-Plated Brass Slotted; Undercut Binding Head Design
Assembly	Topped Roll-Over Rivets

STANDARDS & CERTIFICATIONS					
NEMA WD1 & WD6	ANSI C-73	UL 508	UL Fed Spec Listed WS896E	CUL per CSA C22.2 No.14	NOM
✓	✓	#E63969	Not Applicable	#E63969	#057

CAT. NO.	RATING	AC HORSEPOWER RATING	
MS302	30AMP 600V AC	2 HP 120V	5 HP 240V
		10HP 480V	15 HP 600V
MS303	30AMP 600V AC	3 HP 120V	7½ HP 240V
		15HP 480V	20 HP 600V
MS402	40AMP 600V AC	2 HP 120V	5 HP 240V
		10HP 480V	15 HP 600V
MS403	40AMP 600V AC	3 HP 120V	7½ HP 240V
		15HP 480V	20 HP 600V



Industrial Grade, Back & Side Wired-MS Devices, Side Wired, BusBar Termination & Ring Terminal-WS Devices

ELECTRICAL			
DIELECTRIC VOLTAGE	OVERLOAD UL 20 TEST	TEMP. RISE	ENDURANCE
Withstands 1500V for 1min	100 cycles of overload at 4.8 times rated current	30° C max at full rated current	UL508 6,000 cycles inductive motor type load. Dual rated General and Manual Motor Control

MECHANICAL			
TERMINAL I.D.	TERMINAL ACCOMM.	PRODUCT I.D.	TORQUE RANGE
T1, T2, T3, L1, L2 & L3 marked on back of device	#10 -#8 AWG	Ratings are permanently stamped on device strap	18-20 inch pounds

ENVIRONMENTAL	
FLAMMABILITY	OPERATING TEMP.
Rated V0 per UL94	-40°C to 65°C

CERTIFICATION					
NEMA WD-1 & WD-6	ANSI C-73	UL 508	UL Fed Spec WS896E	CUL per CSA C22.2 No.111	NOM
✓	✓	#E63969	Not Applicable	#E63969	#057



WS402



MS303



MS403

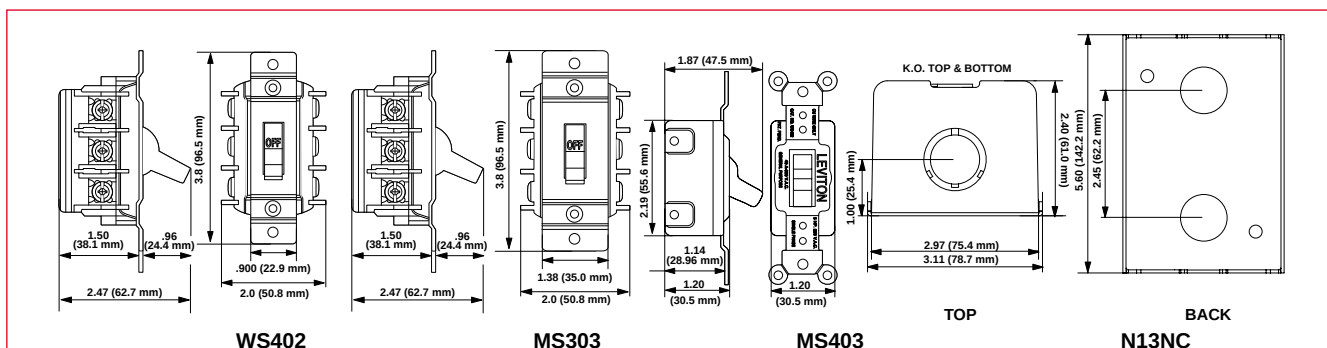


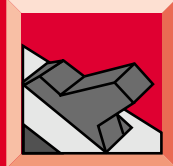
N1303

TOGGLE COLOR	DOUBLE-POLE SINGLE-THROW		AC HORSEPOWER RATING	THREE-POLE SINGLE-THROW		AC HORSEPOWER RATING
30A 600V AC, Motor Starting Switch						
Black Black (short toggle)	Switch Only	Switch in NEMA 1 Enclosure	2HP 120V 5HP 240V 10HP 480V 15HP 600V	Switch Only	Switch in NEMA 1 Enclosure	3HP 120V 7½HP 120V 15HP 480V 20HP 600V
	MS302 MS302-S	N1302 –		MS303 MS303-S	N1303 –	
40A 600V AC, Motor Starting Switch						
Black	MS402		2HP 120V 5HP 240V 10HP 480V 15HP 600V	MS403		3HP 120V 7½HP 240V 15HP 480V 20HP 600V
40A 600V AC, Welder Starting Switch (Terminal Screws Packaged Separately)  Recognized Component for OEM use.						
Black	WS402		5HP 240V	–		–

NEMA 1 STEEL ENCLOSURE WITHOUT SWITCH	NYLON WALLPATES		302 STAINLESS STAINLESS STEEL	
 N13NC	 80701-I	 80709-I	 84001-40	 84009-40

FOR ADDITIONAL WALLPLATE OPTIONS SEE SECTION Q





15 & 20A 120/277V AC

Commercial Grade, Back & Side Wired



10 YEAR LIMITED
WARRANTY

ELECTRICAL			
DIELECTRIC VOLTAGE	OVERLOAD UL 20 TEST	TEMP. RISE	ENDURANCE
Withstands 1500V for 1min	100 cycles of overload at 4.8 times rated current	30° C max at full rated current	UL20/Fed Spec 50,000 cycles min., tungsten filament lamp load (Fed. Spec.) WS896E, SP, DP, 3-way, 4-way, Pilot Light, Illum., Key Lock

MECHANICAL			
TERMINAL I.D.	TERMINAL ACCOMM.	PRODUCT I.D.	TORQUE RANGE
Brass-Hot, Black-Hot, White-Neutral, Green-Grounding	#14-#10 AWG back wired #14-#12 AWG side wired	Ratings are permanently stamped on device strap	12-14 inch pounds



CSB1-15I



CSB3-20



CSB4-15GY



CSB4-20I

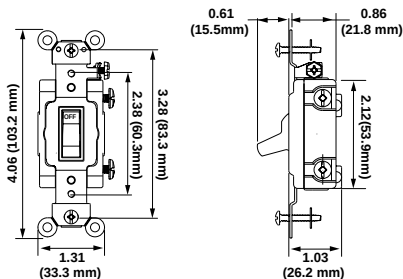
ENVIRONMENTAL	
FLAMMABILITY	OPERATING TEMP.
Rated V2 per UL94	-40°C to 65°C

STANDARDS & CERTIFICATION					
NEMA WD-1 & WD-6	ANSI C-73	UL 20	ULFed Spec WS896E	CSA C22.2 No. 111	NOM
✓	✓	#E7458	#E7458	#152105	#057

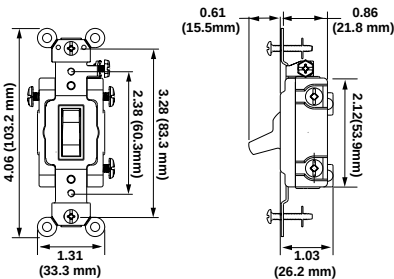
AC HORSEPOWER RATINGS	
15 AMP	20 AMP
1/2 @120V	1@120V
2@240V	2@240V
12 AMP MAX	16 AMP MAX

TOGGLE COLOR	SINGLE-POLE TOGGLE	DOUBLE-POLE TOGGLE	3-WAY TOGGLE	4-WAY TOGGLE
15 AMP				
Brown Ivory White Gray Almond	CSB1-15 CSB1-15I CSB1-15W CSB1-15GY CSB1-15A	CSB2-15 CSB2-15I CSB2-15W CSB2-15GY CSB2-15A	CSB3-15 CSB3-15I CSB3-15W CSB3-15GY CSB3-15A	CSB4-15 CSB4-15I CSB4-15W CSB4-15GY CSB4-15A
20 AMP				
Brown Ivory White Gray Almond	CSB1-20 CSB1-20I CSB1-20W CSB1-20GY CSB1-20A	CSB2-20 CSB2-20I CSB2-20W CSB2-20GY CSB2-20A	CSB3-20 CSB3-20I CSB3-20W CSB3-20GY CSB3-20A	CSB4-20 CSB4-20I CSB4-20W CSB4-20GY CSB4-20A

NYLON WALLPLATES				302 STAINLESS STEEL WALLPLATES			
80701-I	80709-I	80711-I	80707-I	84001-40	84009-40	84011-40	84001-E40
FOR ADDITIONAL WALLPLATE OPTIONS SEE SECTION Q							



CSB1 SERIES



CSB3 SERIES



ELECTRICAL			
DIELECTRIC VOLTAGE	OVERLOAD UL 20 TEST	TEMP. RISE	ENDURANCE
Withstands 1500V for 1min	100 cycles of overload at 4.8 times rated current	30° C max at full rated current	UL20/Fed Spec 50,000 cycles min., tungsten filament lamp load (Fed. Spec.) WS896E, SP, DP, 3-way, 4-way, Pilot Light, Illum., Key Lock

MECHANICAL			
TERMINAL I.D.	TERMINAL ACCOMM.	PRODUCT I.D.	TORQUE RANGE
Brass-Hot, Black-Hot, White-Neutral, Green-Grounding	#14-#12 AWG side wired	Ratings are permanently stamped on device strap	12-14 inch pounds



5501-8



CS220-2GY



54501-2



54522-2W



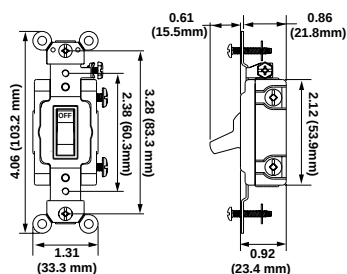
54504-2GY

ENVIRONMENTAL	
FLAMMABILITY	OPERATING TEMP.
Rated V2 per UL94	-40°C to 65°C

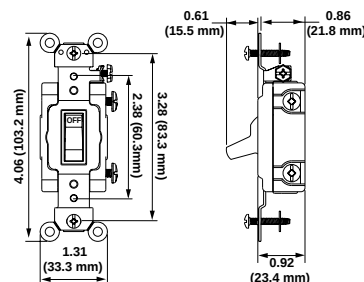
STANDARDS & CERTIFICATION					
NEMA WD-1 & WD-6	ANSI C-73	UL 20	UL Fed Spec WS896E	CSA C22.2 No. 111	NOM
✓	✓	#E7458	#E7458	#152105	#057

AC HORSEPOWER RATINGS	
15 AMP	20 AMP
1/2 @120V	1@120V
2 @240V	2@240V
12 AMP MAX	16 AMP MAX

TOGGLE COLOR	SINGLE POLE TOGGLE	SINGLE POLE HOSPITAL CALL SWITCH	DOUBLE POLE TOGGLE	DOUBLE POLE HOSPITAL CALL SWITCH	3-WAY TOGGLE	4-WAY TOGGLE	SINGLE POLE FRAMED TOGGLE	DOUBLE POLE FRAMED TOGGLE	3-WAY FRAMED TOGGLE	4-WAY FRAMED TOGGLE
15 AMP										
Brown	CS115-2	5501-8	CS215-2	-	CS315-2	CS415-2	54501-2	54502-2	54503-2	54504-2
Ivory	CS115-2I	5501-8I	CS215-2I	5502-8I	CS315-2I	CS415-2I	54501-2I	54502-2I	54503-2I	54504-2I
White	CS115-2W	-	CS215-2W	-	CS315-2W	CS415-2W	54501-2W	54502-2W	54503-2W	54504-2W
Gray	CS115-2GY	-	CS215-2GY	-	CS315-2GY	CS415-2GY	54501-2GY	54502-2GY	54503-2GY	54504-2GY
Almond	-	-	-	-	CS315-2A	CS415-2A	-	-	-	54504-2A
20 AMP										
Brown	CS120-2	-	CS220-2	-	CS320-2	CS420-2	54521-2	54522-2	54523-2	54524-2
Ivory	CS120-2I	-	CS220-2I	-	CS320-2I	CS420-2I	54521-2I	54522-2I	54523-2I	54524-2I
White	CS120-2W	-	CS220-2W	-	CS320-2W	CS420-2W	54521-2W	54522-2W	54523-2W	54524-2W
Gray	CS120-2GY	-	CS220-2GY	-	CS320-2GY	CS420-2GY	54521-2GY	54522-2GY	54523-2GY	54524-2GY
Almond	-	-	CS220-2A	-	-	-	-	-	-	-



54501



CS115

15 & 20A 120/277V AC

Commercial Grade, Side Wired - Canadian



ELECTRICAL			
DIELECTRIC VOLTAGE	OVERLOAD UL 20 TEST	TEMP. RISE	ENDURANCE
Withstands 1500V for 1min	100 cycles of overload at 4.8 times rated current	30° C max at full rated current	UL20/Fed Spec 50,000 cycles min., tungsten filament lamp load (Fed. Spec.) WS896E, SP, DP, 3-way, 4-way, Pilot Light, Illum., Key Lock

MECHANICAL			
TERMINAL I.D.	TERMINAL ACCOMM.	PRODUCT I.D.	TORQUE RANGE
Brass-Hot, Black-Hot, White-Neutral, Green-Grounding	#14-#12 AWG side wired	Ratings are permanently stamped on device strap	12-14 inch pounds



1101-CBI

ENVIRONMENTAL	
FLAMMABILITY	OPERATING TEMP.
Rated V2 per UL94	-40°C to 65°C

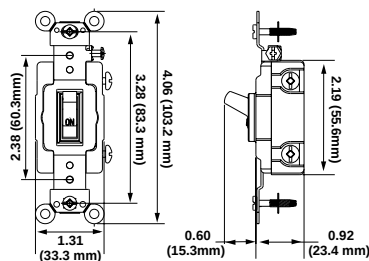
STANDARDS & CERTIFICATION					
NEMA WD-1 & WD-6	ANSI C-73	UL 20	ULFed Spec WS896E	CSA C22.2 No. 111	NOM
✓	✓	#E7458	#E7458	#152105	#057

AC HORSEPOWER RATINGS	
15 AMP	20 AMP
1/2 @120V	1@120V
2 @240V	2@240V
12 AMP MAX	16 AMP MAX

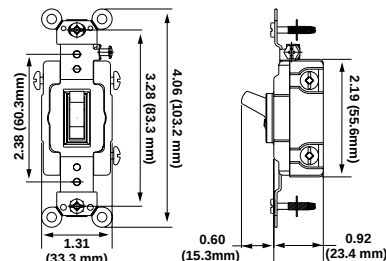
TOGGLE COLOR	SINGLE-POLE FRAMED TOGGLE	DOUBLE-POLE FRAMED TOGGLE	3-WAY FRAMED TOGGLE	4-WAY FRAMED TOGGLE
15 AMP				
Brown	1101-CB	1102-CB	1103-CB	1104-CB
Ivory	1101-CBI	1102-CBI	1103-CBI	1104-CBI
White	1101-CBW	1102-CBW	1103-CBW	1104-CBW
Gray	1101-CBGY	1102-CBGY	1103-CBGY	1104-CBGY
20 AMP				
Brown	54521-B	54522-B	54523-B	54524-B
Ivory	54521-I	54522-I	54523-I	54524-I
White	-	54522-W	-	-

NYLON WALLPLATES				302 STAINLESS STEEL WALLPLATES			
80701-I	80709-I	80711-I	80707-I	84001-40	84009-40	84011-40	84001-E40

FOR ADDITIONAL WALLPLATE OPTIONS SEE SECTION Q



54521



54523



ELECTRICAL			
DIELECTRIC VOLTAGE	OVERLOAD UL 20 TEST	TEMP. RISE	ENDURANCE
Withstands 1500V for 1min	100 cycles of overload at 4.8 times rated current	30° C max at full rated current	UL20/Fed Spec 50,000 cycles min., tungsten filament lamp load (Fed. Spec.) WS896E, SP, DP, 3-way, 4-way, Pilot Light, Illum., Key Lock

MECHANICAL			
TERMINAL I.D.	TERMINAL ACCOMM.	PRODUCT I.D.	TORQUE RANGE
Brass-Hot, Black-Hot, White-Neutral, Green-Grounding	#14-#12 AWG side wired	Ratings are permanently stamped on device strap	12-14 inch pounds

ENVIRONMENTAL	
FLAMMABILITY	OPERATING TEMP.
Rated V2 per UL94	-40°C to 65°C

STANDARDS & CERTIFICATION					
NEMA WD-1 & WD-6	ANSI C-73	UL 20	ULFed Spec WS896E	CSA C22.2 No. 111	NOM
✓	✓	#E7458	#E7458	#152105	#057



AC HORSEPOWER RATINGS
15 AMP
1/2@120V
2@240V
12 AMP MAX

15A 120V AC Only, Side Wired, Lighted Handle

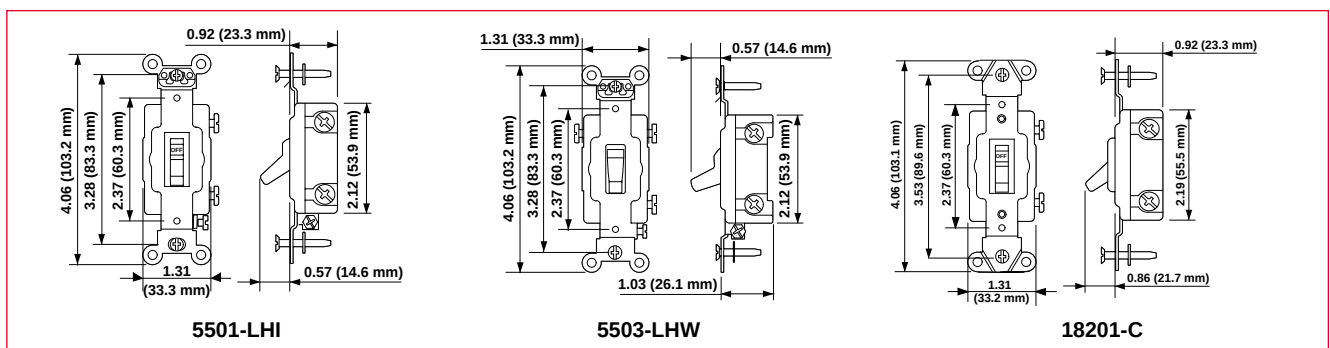
TOGGLE COLOR	SINGLE-POLE LIGHTED TOGGLE	3-WAY LIGHTED TOGGLE
15 AMP		
Ivory White	5501-LHI 5501-LHW	5503-LHI 5503-LHW

15A 347V AC Side Wired Canadian

TOGGLE COLOR TOGGLE	SINGLE-POLE FRAMED TOGGLE	DOUBLE-POLE FRAMED TOGGLE	3-WAY FRAMED TOGGLE	4-WAY FRAMED
15 AMP				
Brown Ivory White Gray	18201-CB 18201-CI 18201-CW 18201-CG	18202-CB 18202-CI 18202-CW 18202-CG	18203-CB 18203-CI 18203-CW 18203-CG	18204-CB 18204-CI 18204-CW 18204-CG

NYLON WALLPLATES				302 STAINLESS STEEL WALLPLATES			
80701-I	80709-I	80711-I	80707-I	84001-40	84009-40	84011-40	84001-E40

FOR ADDITIONAL WALLPLATE OPTIONS SEE SECTION Q



15A 120/277V AC Switches

15A 125V AC Receptacles

Commercial Grade, Side Wired



10 YEAR LIMITED
WARRANTY

ELECTRICAL			
DIELECTRIC VOLTAGE	OVERLOAD UL 20 TEST	TEMP. RISE	ENDURANCE
Withstands 1500V for 1min	100 cycles of overload at 4.8 times rated current	30° C max at full rated current	UL20/Fed Spec 50,000 cycles min., tungsten filament lamp load (Fed. Spec.) WS896E, SP, DP, 3-way, 4-way, Pilot Light, Illum., Key Lock

MECHANICAL			
TERMINAL I.D.	TERMINAL ACCOMM.	PRODUCT I.D.	TORQUE RANGE
Brass-Hot, Black-Hot, White-Neutral, Green-Grounding	#14-#12 AWG side wired	Ratings are permanently stamped on device strap	12-14 inch pounds

ENVIRONMENTAL	
FLAMMABILITY	OPERATING TEMP.
Rated V2 per UL94	-40°C to 65°C

STANDARDS & CERTIFICATION					
NEMA WD-1 & WD-6	ANSI C-73	UL 20	ULFed Spec WS896E	CSA C22.2 No. 111	NOM
✓	✓	#E7458	-	#152105	#057



5224-2



5225



5241



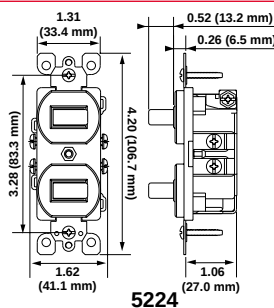
5226-W

AC HORSEPOWER RATINGS	
15 AMP	
1/2 @ 120V	
2 @ 240V	
12 AMP MAX	

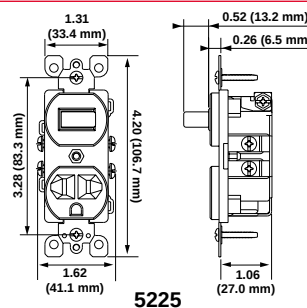
TOGGLE COLOR	TWO SINGLE-POLE SWITCHES	TWO SINGLE-POLE SWITCHES GROUNDING	SINGLE-POLE AND 3-WAY SWITCH	TWO 3-WAY SWITCHES
(Two) Switches – S-P and 3-Way 15A 120/277V AC				
Brown	5224	5224-2	5241	5243
Ivory	5224-I	5224-2I	5241-I	5243-I
White	5224-W	5224-2W	5241-W	5243-W

TOGGLE COLOR	RECEPTACLE WITH SINGLE-POLE	RECEPTACLE WITH 3-WAY
Single Receptacle & Switch – Receptacle 15A 125V AC, Switch 15A 120V AC		
Brown	5225	5245
Ivory	5225-I	5245-I
White	5225-W	-

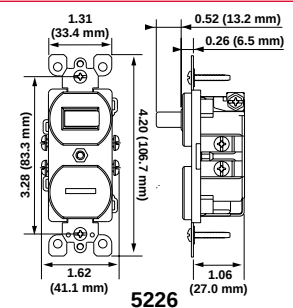
TOGGLE COLOR	PILOT LIGHT WITH SINGLE-POLE	PILOT LIGHT WITH 3-WAY
Neon Pilot Light & Switch – Neon Lamp 120V AC, S-P & 3-Way Switch 15A 120/277V AC		
Brown	5226	5246
Ivory	5226-I	5246-I
White	5226-W	5246-W



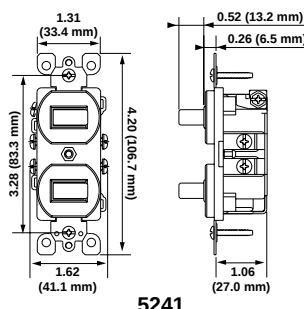
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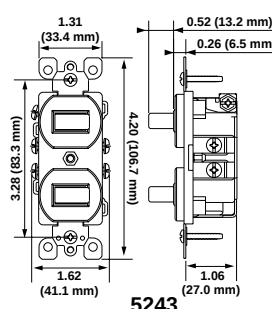
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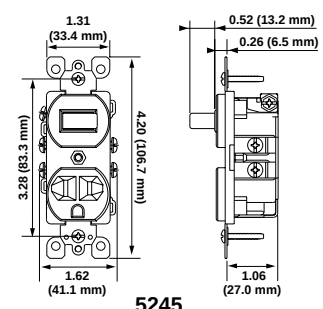
5226



5241



5243



5245