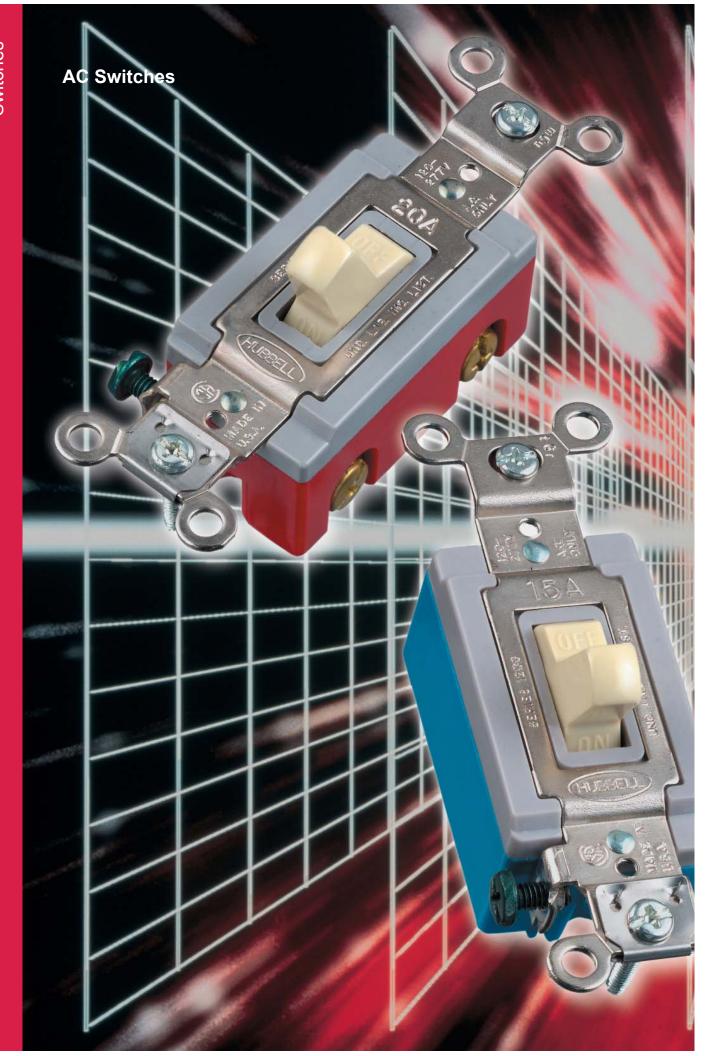
Section C **Switches**

Index

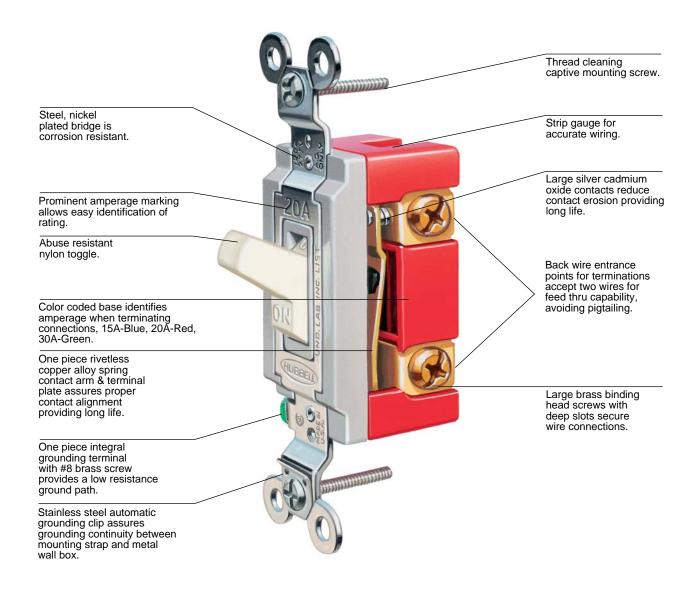
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AC Toggle Switches

Industrial/Institutional - Heavy Duty

Features and Benefits





One piece rivetless copper alloy spring contact arm and terminal plate assures proper contact alignment reducing heat rise. Large silver cadmium oxide contacts reduce contact erosion and prevent welding, providing long life.



Heavy duty nylon toggle resists abuse and chemical attack making it suitable for use in the toughest environments.



Thermoplastic elastomer rocker assures precise alignment of carbon steel coil compression spring. Permanently lubricated assembly provides long life and trouble free operation.



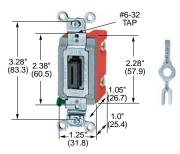
One piece integral grounding terminal with #8 brass screw allows compliance to NEC®. Stainless steel automatic grounding clip assures grounding continuity between mounting strap and metal wall box. Steel nickel plated mounting strap provides a corrosion resistant finish.

15, 20 and 30 Ampere, 120-277 Volts AC *Industrial – Institutional, Heavy Duty Specification Grade*

Toggle and Lock Type AC Switches with Ground Screw



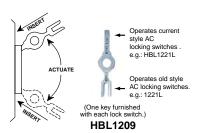
HBL1221

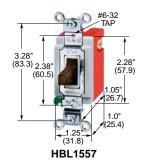


HBL1221L and Key



HBL3031











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

	Catalog Num	bers		
Description	Single Pole	Double Pole	Three Way	Four Way
Brown nylon toggle.	HBL1201	HBL1202	HBL1203	HBL1204
Ivory nylon toggle.	HBL1201I	HBL1202I	HBL1203I	HBL1204I
Gray nylon toggle.	HBL1201GY	_	HBL1203GY	HBL1204GY
White nylon toggle.	HBL1201W	_	-	_
Red nylon toggle.	HBL1201R	-	-	-
Lock type.	HBL1201L**	HBL1202L**	HBL1203L**	HBL1204L**
Key for lock switches.	HBL1209*			

20A, 120-277V AC

Description	Catalog Num Single Pole	bers Double Pole	Three Way	Four Way
<u> </u>				
Brown nylon toggle.	HBL1221	HBL1222	HBL1223	HBL1224
Ivory nylon toggle.	HBL1221I	HBL1222I	HBL1223I	HBL1224I
Gray nylon toggle.	HBL1221GY	HBL1222GY	HBL1223GY	HBL1224GY
White nylon toggle.	HBL1221W	HBL1222W	HBL1223W	HBL1224W
Red nylon toggle.	HBL1221R	HBL1222R	HBL1223R	HBL1224R
Black nylon toggle.	HBL1221BK	HBL1222BK	HBL1223BK	HBL1224BK
Lock type.	HBL1221L**	HBL1222L**	HBL1223L**	HBL1224L**
Key for lock switches.	HBL1209*			

30A, 120-277V AC

Description	Catalog Number Single Pole	rs Double Pole	Three Way
Brown nylon toggle.	HBL3031	HBL3032	HBL3033
Ivory nylon toggle.	HBL3031I	HBL3032I	HBL3033I

Momentary Contact, Specification Grade, Back and Side Wired Three Position, Two Circuit, Center Off. UL & CSA Only

Description	Catalog Numbers 15A, 120-277V AC	20A, 120-277V AC
Brown nylon toggle.	HBL1556	HBL1557
Ivory nylon toggle.	HBL1556I	HBL1557I
Gray nylon toggle.	HBL1556GY	HBL1557GY
Red nylon toggle.	HBL1556R	-
White nylon toggle.	-	HBL1557W
Lock type.	HBL1556L	HBL1557L
Key for lock switches.	HBL1209*	

Notes: Keys are supplied with each lock switch. For extra keys order HBL1209. For technical data see page C-26.

See Section K for wall plates. For accessories see pages C-23-C-25. See pages C-30 and C-31 for wiring diagrams.

* Not UL Listed, CSA Certified

** Not Fed Spec

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

15, 20 and 30 Ampere, 120-277 Volts AC

Industrial - Institutional, Heavy Duty Specification Grade Toggle Type Lighted and Pilot Light AC Switches with Ground Screw







Specification Grade, Lighted and Pilot Light Toggle Switches, Back and Side Wired

Lighted Toggle (light on with load off)

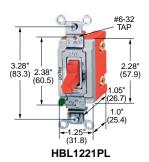
		Catalog Num	bers	
Rating	Description		Double Pole	Three Way
15A 120-277V AC	Ivory nylon toggle.	HBL1201IL	-	HBL1203IL
20A 120-277V AC	Ivory nylon toggle.	HBL1221IL	-	HBL1223IL
20A 120-277V AC	Clear polycarbonate toggle.	HBL1221ILC	-	HBL1223ILC



HBL1221ILC

Pilot Light (light on with load on)

		,		
Rating	Description	Catalog Numl Single Pole		Three Way
15A 120-277V AC	Red polycarbonate toggle.	HBL1201PL	-	HBL1203PL
20A 120-277V AC	Red polycarbonate toggle.	HBL1221PL	HBL1222PL	HBL1223PL
20A 120-277V AC	Clear polycarbonate toggle.	HBL1221PLC	-	HBL1223PLC
20A 120-277V AC	Green polycarbonate toggle.	HBL1221PLG	-	-
30A 120-277V AC	Red polycarbonate toggle.	HBL3031PL	HBL3032PL	-

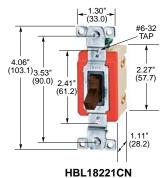


15A, 347V AC





	Catalog Number	ers		
Description	Single Pole	Double Pole	Three Way	Four Way
Brown nylon toggle.	HBL18201CN	_	HBL18203CN	-
Ivory nylon toggle.	HBL18201ICN	_	HBL18203ICN	HBL18204ICN
Lock type.	HBL18201LCN	_	HBL18203LCN	-
Key for lock switches.	HBL1209			



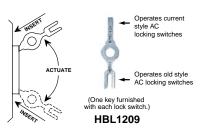
20A, 347V AC



	Catalog Number	ers		
Description	Single Pole	Double Pole	Three Way	Four Way
Brown nylon toggle.	HBL18221CN	-	HBL18223CN	-
Ivory nylon toggle.	HBL18221ICN	-	HBL18223ICN	-

Notes: Keys are supplied with each lock switch. For extra keys order HBL1209. For technical data see page C-26.

See Section K for wallplates. For accessories see pages C-23 to C-25. See pages C-30 and C-31 for wiring diagrams.

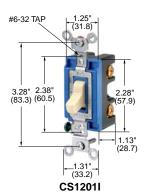


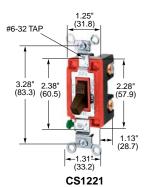
	120V	208V	240V	277VAC
15A	.5 HP	1.5HP	2HP	2HP
20A	1 HP	2HP	2HP	2HP
30A	2HP	2HP	2HP	2HP

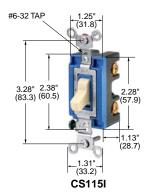
15 and 20 Ampere, 120-277 Volts AC

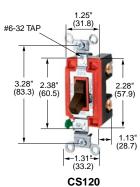
Construction and Commercial Series Specification Grade

AC Toggle Switches with Ground Screw













Construction Series Heavy Duty Specification Grade AC Toggle Switches, Back and Side Wired

15A, 120-277V AC

	Catalog Numbers			
Description	Single Pole	Double Pole	Three Way	Four Way
Brown toggle.	CS1201	-	CS1203	-
Ivory toggle.	CS1201I	-	CS1203I	-
Gray toggle.	CS1201GY	-	CS1203GY	-
White toggle.	CS1201W	_	CS1203W	-
Office white toggle.	CS1201OW	-	CS1203OW	-

20A, 120-277V AC

Catalog Numbers				
Description	Single Pole	Double Pole	Three Way	Four Way
Brown toggle.	CS1221	CS1222	CS1223	CS1224
Ivory toggle.	CS1221I	CS1222I	CS1223I	CS1224I
Gray toggle.	CS1221GY	CS1222GY	CS1223GY	CS1224GY
White toggle.	CS1221W	CS1222W	CS1223W	CS1224W
Red toggle.	CS1221R	CS1222R	CS1223R	CS1224R
Black toggle.	CS1221BK	CS1222BK	CS1223BK	CS1224BK
Office white toggle.	CS1221OW	CS1222OW	CS1223OW	CS1224OW

Commercial Series Heavy Duty Specification Grade AC Toggle Switches, Side Wired Only.

15A, 120-277V AC

Catalog Numbers				
Description	Single Pole	Double Pole	Three Way	Four Way
Brown toggle.	CS115	-	CS315	-
Ivory toggle.	CS115I	-	CS315I	-
Gray toggle.	CS115GY	-	CS315GY	-
White toggle.	CS115W	-	CS315W	-
Office white toggle.	CS115OW	-	CS315OW	-

20A, 120-277V AC

Catalog Numbers				
Description	Single Pole	Double Pole	Three Way	Four Way
Brown toggle.	CS120	-	CS320	-
Ivory toggle.	CS120I	-	CS320I	-
Gray toggle.	CS120GY	-	CS320GY	-
White toggle.	CS120W	-	CS320W	-
Office white toggle.	CS120OW	-	CS320OW	-

Notes: See Section K for wall plates. See page C-30 for wiring diagrams. For accessories see pages C-23–C-25.

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

15 and 20 Ampere, 120-277 Volt AC

Style Line® Specification Grade Rocker Switches





Style Line Specification Grade AC Rocker Switches, Back and Side Wired

15A, 120-277V AC

Catalog Numbers					
Description	Single Pole	Double Pole	Three Way	Four Way	
Brown rocker.	HBL2101	-	HBL2103	-	
Ivory rocker.	HBL2101I	-	HBL2103I	-	
Gray rocker.	HBL2101GY	-	HBL2103GY	-	
White rocker.	HBL2101WA	-	HBL2103WA	-	
Black rocker.	HBL2101BK	_	HBL2103BK	-	
Office white rocker.	HBL2101OW	-	HBL2103OW	-	

20A, 120-277V AC

Catalog Numbers						
Description	Single Pole	Double Pole	Three Way	Four Way		
Brown rocker.	HBL2121	HBL2122	HBL2123	HBL2124		
Ivory rocker.	HBL2121I	HBL2122I	HBL2123I	HBL2124I		
Gray rocker.	HBL2121GY	HBL2122GY	HBL2123GY	HBL2124GY		
White rocker.	HBL2121WA	HBL2122WA	HBL2123WA	HBL2124WA		
Black rocker.	HBL2121BK	HBL2122BK	HBL2123BK	HBL2124BK		
Office white rocker.	HBL21210W	HBL2122OW	HBL2123OW	HBL2124OW		

Style Line Specification Grade Lighted and Pilot Light AC Rocker Switches, Back and Side Wired 20A, 120V AC Lighted Rocker (light on with load off)

Catalog Numbers					
Description	Single Pole	Double Pole	Three Way	Four Way	
Ivory rocker.	HBL2121IL	-	HBL2123IL	-	
White rocker.	HBL2121ILW	A –	HBL2123ILWA	-	

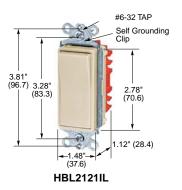
20A, 120V AC Pilot Light Rocker (light on with load on)

Catalog Numbers						
Description	Single Pole	Double Pole	Three Way	Four Way		
Ivory rocker.	HBL2121PL	-	-	-		

Note: See Section K for wall plates. See pages C-30 for wiring diagrams. For accessories see pages C-23.

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





20 Ampere, 120-277 Volts AC PresSwitch® Push Button Switches





Specification Grade, Side Wired Only **Standard Type**

20A, 120-277V AC

	Catalog Numbers				
Description	Single Pole	Double Pole	Three Way	Four Way	
Brown nylon actuator.	HBL1281	HBL1282	HBL1283*	HBL1284*	
Ivory nylon actuator.	HBL1281I	HBL1282I	HBL1283I*	HBL1284I*	

Momentary Type 20A, 120-277V AC

Description	Catalog Numbers Single Pole Double Pole	Three Way	Four Way
Circuit normally closed, brown.	HBL1281MC* -	-	-
Circuit normally open, brown.	HBL1281MO* -	-	-

Lighted and Pilot Light PresSwitches, 120V AC Lighted Actuator (light on with load off)

	Catalog Numbers					
Description	Single Pole	Double Pole	Three Way	Four Way		
15A, ivory nylon actuator.	_	_	-	HBL1259I*		
20A, ivory nylon actuator.	HBL1287I	-	HBL1288I*	-		

20A, 120V AC Pilot Light Actuator (light on with load on)

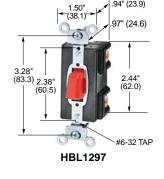
	Catalog Numbers			
Description	Single Pole	Double Pole	Three Way	Four Way
Red nylon actuator.	HBL1297	-	HBL1298*	-

Notes: See Section K for wallplates.

See pages C-30 and C-31 for wiring diagrams. For accessories see pages C-23-C-25.

*Not Listed by UL or CSA.

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



15, 20 and 30 Ampere, 120-277 Volts AC *Industrial – Institutional, Heavy Duty Specification Grade Three Position,*

Two Circuit, Center Off, Maintained Contact Switches

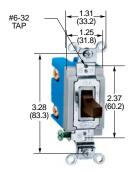




Maintained Contact, Specification Grade, Back and Side Wired, Three Position, Two Circuit, Center Off

Single Pole, Double Throw

	Catalog Numbers		
Description	15A 120-277V AC	20A 120-277V AC	30A 120-277V AC
Brown nylon toggle.	HBL1381	HBL1385	-
Ivory nylon toggle.	HBL1381I	HBL1385I	_
White nylon toggle.	_	HBL1385W	_

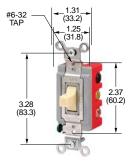


HBL1381

Double Pole, Double Throw

	Catalog Numbers		
Description	15A 120-277V AC	20A 120-277V AC	30A 120-277V AC
Brown nylon toggle.	HBL1382	HBL1386	HBL1388
Ivory nylon toggle.	HBL1382I	HBL1386I	HBL1388I
Lock type.	-	HBL1386L	-
Key for lock switches.	HBL1209		

Notes: Keys supplied with each lock switch. For extra keys order HBL1209. See page C-31 for wiring diagrams. For accessories see pages C-23-C-25. For technical data see page C-26.



HBL1386I

AC Dimmers

600 to 2000 Watts, 120 Volts AC 60 Hz



600 and 1000W Dimmer Fits Single-Gang Wall Boxes. **AS63** and **AS103**



1500 and 2000W Dimmer Fits Single-Gang Wall Boxes. **AS153** and **AS203**



600 and 1000W Dimmer Fits Single-Gang Wall Boxes. AR61 and AR101



1500 and 2000W Dimmer Fits Single-Gang Wall Boxes. AR151 and AR201

(Jr

Architectural Grade Preset Slide Control

Rating/Descrip	tion	Color	Catalog Numbers	
Incandescent Control	600W, 120V AC, 60 Hz, Single pole/three way - preset.	White	AS63	
Single pole/three	1000W, 120V AC, 60 Hz, e way - preset.	White	AS103	
Single pole/three	1500W, 120V AC, 60 Hz, e way - preset.	White	AS153	
Single pole/three	2000W, 120V AC, 60 Hz, e way - preset.	White	AS203	
Accessories Small plate kit for 600W and 1000W models. Includes non-metallic trimplate and slide.		Ivory White	AS1I AS1W	
Large plate kit for 1500W and 2000W models. Includes non-metallic trimplate and slide.		Ivory White	AS2I AS2W	

Note: The dimmers listed above can be wired for single pole or three way applications.

Architectural Grade Rotary Models

Rating/Description		Color	Catalog Numbers
Incandescent Control	600W, 120V AC, 60 Hz. Single pole - push on/off. Three way - push on/off.	Beige Beige	AR61 AR63
	1000W, 120V AC, 60 Hz. Single pole - push on/off. Three way - push on/off.	Beige Beige	AR101 AR103
	1500W, 120V AC, 60 Hz, Single pole, rotary on/off.	Beige	AR151
	2000W, 120V AC, 60 Hz, Single pole, rotary on/off.	Beige	AR201
Accessories	Small plate kit for 600W and 1000W models. Includes non-metallic trimplate and knob.	Beige White	AR1BE AR1W
	Large plate kit for 1500W and 2000W models. Includes non-metallic trimplate and knob.	Beige White	AR2BE AR2W

Note: See page C-29 for ganging and derating.

AC Dimmers

600 to 1000 Watts, 120 Volts AC 60 Hz 120V AC 60 Hz Fan Control

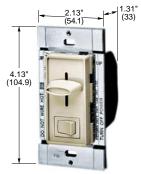




Specification Grade Preset Slide Control

Rating/Descript	Rating/Description		Catalog Numbers
Incandescent Control	600W 120V AC, 60 Hz, Single pole - preset.	Ivory White	S61I S61W
	600W 120V AC, 60 Hz, Three way - preset.	Ivory White	S63I S63W
	1000W 120V AC, 60 Hz, Single pole - preset.	Brown Ivory White Gray Black	S11BR S11I S11W S11GY S11BL
	1000W 120V AC, 60 Hz, Three way - preset.	Ivory White Gray	S13I S13W S13GY

Notes: Use Style Line® wall plates with preset slide control dimmers. See page C-29 for ganging and derating.

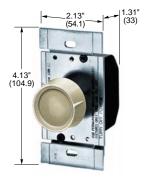


600 and 1000W Dimmer Fits Single-Gang Wall Boxes. S61I and S11I

Rotary Model

Rating/Description		Color	Catalog Numbers	
Incandescent Control	600W 120V AC, 60 Hz. Single pole - push on/off. Three way - push on/off.	lvory lvory	R61I R63I	
Fan Speed Control	5A, 120V AC, 60 Hz, Single pole.	Ivory	RF5I	
Accessories	Replacement knob. Replacement knob.	Ivory White	RKI RKW	

Notes: Use standard toggle switch wall plates with rotary dimmers. See page C-29 for ganging and derating.



600W Dimmer Fits Single-Gang Wall Boxes. R61I

Heavy Duty Panel Mount Bat Handle Switches



HBL11



HBL123SP

Specifications

Impact Resistant Thermoplastic Body.

Fine Silver Contacts.

Knurled Nut, Hex Nut And Strap All Nickel Plated.

Keyed Brass Bushing Nickel Plated.

Brass Toggle Nickel Plated.

Choice of Terminal Design:

.250" (6.3) Male Tab Spade Type or 6/32 Screw Type.

UL Recognized.

31

10A 250V AC 20A 125V AC Horsepower Rated 3/4 HP, 125-250V AC

Description	Termina	al			Catalog Numbers
Single pole/ single throw.	Screw Spade	1.13" (28.7) Screw Terminal Shown	O.61" (15.5)	.56'	HBL11 HBL11SP
Single pole/ single throw momentary.	Screw Spade	1.13" (28.7) Screw Terminal Shown	O.61" (15.5)	.56'	HBL11M HBL11SPM
Single pole/ double throw.	Screw Spade	1.13" (28.7) Screw Terminal Shown	0/V)56' (14.	
Single pole/ double throw 3-position center off.	Screw Spade	1.13" (28.7) Screw Terminal Shown	OFF	56'	HBL123 HBL123SP
Single pole/ double throw 3-position center off momentary.	Screw Spade	1.13" (28.7) Screw Terminal Shown	0.61" 0.75 (15.5) 0.75 (15.5)	.56'	HBL123MM HBL123SPMM

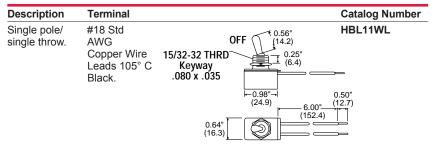
Note: All threaded stems 15/32"-32 thread.

10A 240V AC 15A 120V AC

			0.1.1.1.1
Description	Terminal		Catalog Number
Single pole/ single throw.	Screw	0.62" (15.7) 0.48" (12.2) (45.2) 0.31" (7.9) 0.37" (9.4)	HBL118
		0.56" (14.2)	

Note: 15/32"-32 thread.

4A 250V 8A 125V 10A 120V AC 1/3 HP 120V AC



Note: 15/32"-32 thread, keyway .080x.035.

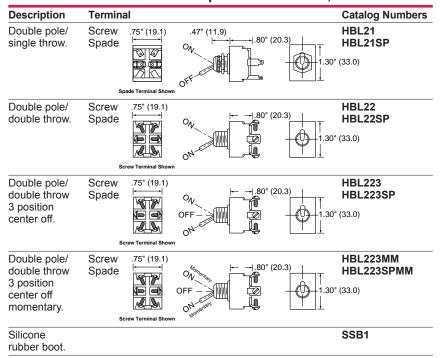


Heavy Duty Panel Mount

Bat Handle Switches



10A 250V AC 20A 125V AC Horsepower Rated 11/2 HP, 125-250V AC



Notes: All threaded stems 15/32"—32 thread. For information on 12V DC tapered I

For information on 12V DC tapered handle switches see Section V, Marine Electrical Products.

HBL11PBWL

4A 250V 8A 125V 10A 120V AC 1/3 HP 120V AC

Description	Terminal		Catalog No.
Single pole/ single throw.	#18 Std AWG Copper Wire Leads 105° C Black.	0.41" (10.4) Black Nylon Pl 1.58" (13.5) 15/32-32 THRI (40.1) (13.5) (13.5) (13.5) (13.5) (13.5) (13.5) (13.5) (152.4) (152.4) (16.5) (16.5) (16.5)	

Note: 15/32"-32 thread, keyway .080 x .034.





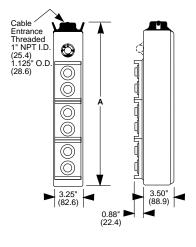
HBL223



Pendant Pushbutton Stations



PBS6





IP44

PBS-Series Heavy Duty Pendant Pushbutton Stations NEMA 3R

Description	Catalog Numbers
2 button, single speed.	PBS2
2 button, two speed.	PBS22
4 button, single speed.	PBS4
4 button, two speed.	PBS42
6 button, single speed.	PBS6
6 button, two speed.	PBS62
8 button, single speed.	PBS8
8 button, two speed.	PBS82

Product Dimensions, PBS Series

Style	Α	Approx. Wt. Assembled	Catalog Numbers
2 button	7.88" (200.0)	2.5 lbs	PBS2
4 button	13.69" (347.6)	4.5 lbs	PBS4
6 button	18.0" (457.2)	5.5 lbs	PBS6
8 button	22.31" (566.7)	7.5 lbs	PBS8

Housing: Yellow vinyl rubber.

Contact Interrupting Ratings, PBS Series

Two-Speed Single Break	Voltage	Current
AC	120V	6A
35% PF	240V	3A
DC	125V	.4A
IND	250V	.2A
Single-Speed Double Break	Voltage	Current
AC	120V	6A
35% PF	240V	3A
35% PF DC	240V 125V	3A 1.1A

Pendant Pushbutton Stations

PBS Series Parts and Accessories

Replacement Inserts

When the insert switches are in need of replacement, simply unplug the old insert and plug in a new one.

Description	Catalog Numbers
Single speed insert momentary N.O. and N.C.	PG2
On-Off insert (no mechanical interlock) Momentary, start-stop, reset-stop.	PG6
3 speed insert, momentary. Used to a maximum of 3 speed points.	MS2
For five speed applications replace an existing terminal board with the TB5 terminal board and replace an existing insert with the five speed (MS5) insert. 5 speed insert, momentary. Used to a maximum of 5 speed points.	MS5

Conversion Inserts

In addition to single speed and two speed applications, preassembled units can be adapted to handle other applications.

Description	Catalog Numbers
Terminal board Catalog No. TB2 is required for each insert switch PG2, PG6 and MS2.	TB2
Terminal board Catalog No. TB5 is required for insert switch MS5.	TB5

Accessories

Description	Catalog Numbers
Indicator labels for replacement package contains 1 each: hoist, trolley, bridge, forward-reverse, raise-lower, in-out, right left, east-west, north-south, reset-stop, start-stop, power, main hoist, aux. hoist, on-off, up-down.	PBSLP
Rubber button cover for replacement purposes.	PBSBC
120V red pilot light for 4, 6, and 8 button units only.	PBSPL1*

^{*}Each pendant station can accommodate one of the pilot light in the 1.20" (30.6) diameter mounting hole.

Kellems® Deluxe Aluminum Cord Fitting

Outdoor or indoors where subject to moisture, splash or submersion. Kellems grips provide strain relief for multi-conductor cable.

Description	Cord Range	Catalog Numbers
Kellems grip.	.750875" (19 to 22.2)	07401023
Kellems grip.	.875-1.00" (22.2 to 25.4)	07401025





PG2

PG6





.

TB:



TB





PBSBC

PBSLP



PBSPL1

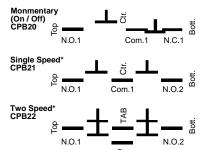


07401020

Pendant Pushbutton Stations



Wiring Diagram CPB2 Series



* Mechanical "floating ball" interlock prevents activating both Pushbuttons simultaneously.





Compact Pendant Stations, CPB2 Series NEMA 4X

Two Button

Description	Catalog Numbers
Single-speed normally open-normally closed without mechanical interlock.	CPB20
Single-speed with mechanical interlock between pushbuttons.	CPB21
Two-speed with mechanical interlock between pushbuttons.	CPB22

Included with product: nylon cord grip and sealing washer (must be installed to achieve NEMA 4X rating). Indication label pack. Cord dia. range .375"-.625" (9.5 - 15.9).

Ambient temperatures: 25°F - 140°F (32°C-60°C).

Typical applications: Package electric motor hoists. Remote control of machinery.

Contact Ratings, CPB2 Series

Single Speed	Voltage	Current
AC	120V	6A
35% PF	240V	3A
DC	125V	1.1A
IND	250V	.55A
Two-Speed	Voltage	Current
AC	120V	3A
35% PF	240V	1.5A

www.hubbell-wiring.com

30 Ampere, 600 Volts AC

Industrial - Heavy Duty AC Manual Motor Controllers, Double and Three Pole (Without Overload Protection) and Enclosures



IP44*

30A 600V AC Manual Motor Controllers

Double Pole

Description	Catalog Numbers
30A, double pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7832
30A, double pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7832BW
HBL7832BW in HBL1390 Type 1 enclosure with non-metallic cover, ¹ / ₂ " and ³ / ₄ " knockouts on top, bottom and back of steel frame.	HBL1392BW
HBL7832BW in HBL1370 metal Type 1 enclosure.	HBL1372BW
HBL7832BW in HBL13R90 metal Type 3R enclosure.	HBL13R92BW

3.28" (83.3), 3.78" (96.0) (2) .20 Dia HBL7810BW Mtg. Holes

Three Pole

Description	Catalog Numbers
30A, three pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7810UD
30A, three pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7810BW
HBL7810BW in HBL1390 Type 1 enclosure with non-metallic cover, 1/2" and 3/4" knockouts on top, bottom and back of steel frame.	HBL1389BW
HBL7810BW in HBL1370 metal Type 1 enclosure.	HBL1379BW
HBL7810BW in HBL13R90 metal Type 3R enclosure.	HBL13R89BW



Enclosures

Description	Catalog Numbers
Type 1 enclosure for 30A switch with non metallic cover (without switch) with $^{1/2}$ " and $^{3/4}$ " knockouts on top, bottom and back of steel frame.	HBL1390
Type 1 enclosure for 30A switch with metallic cover (without switch) with 1/2" and 3/4" knockouts on top, bottom and back of steel frame.	HBL1370
Type 3R metal enclosure without switch.	HBL13R90

Notes:* Enclosure rating.

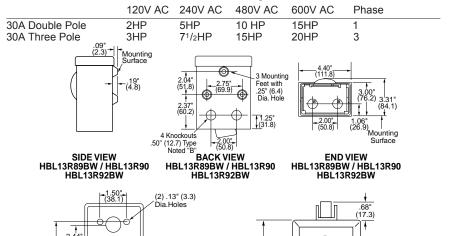
(2) .50" & .75" Knockouts

Dimensions in Inches (mm)

For technical data see page C-32



Motor Rating



(2) .27" (6.9)

BACK VIEW

HBL1370/HBL1372BW/HBL1379BW



HBL1389BW



END VIEW



3.28" (83.3)

.20" DIA (5.1) -

1.75["]/ (44.5)

_ 1.5"__ (38.1) HBL7832FWMD HBL7810FWMD

30 Ampere, 600 Volts ACHeavy Duty Manual Motor Controllers
"Suitable as Motor Disconnect"*





30A 600V AC Double Pole

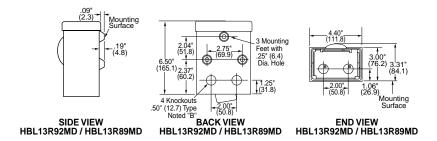
Description	Catalog Numbers
30A, double pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7832FWMD
HBL7832FWMD in HBL13R90MD Type 3R Enclosure.	HBL13R92MD

30A 600V AC Three Pole

Description	Catalog Numbers
30A, three pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7810FWMD
HBL7832FWMD in HBL13R90MD Type 3R Enclosure.	HBL13R89MD

Note: for technical data, see page C-27

* When protected by 30A max RK5 fuses.



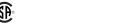
Product	Motor Rating				
	120V AC	240V AC	480V AC	600V AC	Phase
30A Double Pole	2HP	5HP	10HP	15HP	1
30A Three Pole	3HP	71/2HP	15HP	20HP	3



40 and 60 Ampere, 600 Volts AC

Industrial – Heavy Duty AC Manual Motor Controllers, Double and Three Pole (Without Overload Protection) and Enclosures





IP44*

40A 600V AC Manual Motor Controllers

Description	Catalog Numbers
40A, double pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7842
40A, three pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7843

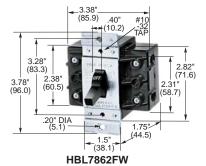
Note: Catalog numbers HBL7842 & HBL7843 dimensions are the same as HBL7810BW shown on C-17.

.40" (10.2) (85.9) 3.28" (83.3) 3.78" (96.0) (44.5)__1.5"_ (38.1) HBL7862

60A 600V AC Manual Motor Controllers

Description	Catalog Numbers
60A, double pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7862
Same as HBL7862 except front wired.	HBL7862FW
HBL7862FW in Type 3R enclosure.	HBL16R92
60A, three pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7863
Same as HBL7863 except front wired.	HBL7863FW
HBL7863FW in a Type 3R enclosure.	HBL16R93

Note: For technical data, see page C-27.



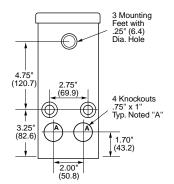
Enclosure Only

Description	Catalog Number
Type 3R metal enclosure without switch.	HBL16R90

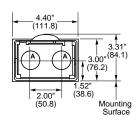
Note: 40 and 60A manual motor controllers are suitable for use with enclosure cat. no. HBL16R90.

^{*} Enclosure rating.

Product	Motor Rating				
	120V AC	240V AC	480V AC	600V AC	Phase
40A Double Pole 40A Three Pole 60A Double Pole 60A Three Pole	2HP 3HP - -	5HP 7 ¹ / ₂ HP 10HP 10HP	10HP 15HP 15HP 25HP	15HP 20HP 20HP 30HP	1 3 1 3

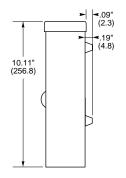


BACK VIEW HBL16R90/HBL16R92/HBL16R93



END VIEW HBL16R90/HBL16R92/HBL16R93





SIDE VIEW HBL16R90/HBL16R92/HBL16R93



Switched Enclosures

Circuit-Lock® 30, 60, and 100 Ampere Unfused Disconnect Switch "Suitable as Motor Disconnect"



Ordering Information 30A, 60A and 100A

Description	Catalog Numbers
30A Circuit-Lock disconnect switch.	HBLDS3
30A Circuit-Lock disconnect switch with aux. contact.*	HBLDS3AC
60A Circuit-Lock disconnect switch.	HBLDS6
60A Circuit-Lock disconnect switch with aux. contact.*	HBLDS6AC
100A Circuit-Lock disconnect switch.	HBLDS10
100A Circuit-Lock disconnect switch with aux. contact.*	HBLDS10AC

Auxiliary Contacts for 30A, 60A & 100A switch, A600 pilot duty

Description	Catalog Numbers
Break before break.	HBLAC1
Break after break.	HBLAC2

Ground Block

Description	Catalog Numbers
For 30A switch.	HBL30RGB
For 60 & 100A switch.	HBL60100RGB

Neutral Block

Description	Catalog Numbers
For 30A switch.	HBL30RNB
For 60A switch.	HBL60RNB
For 100A switch.	HBL100RNB

Replacement Switch

Description	Catalog Numbers
For 30A switch.	HBLDS3RS
For 60 & 100A switch.	HBL60100RS

Notes:

* Supplied with one HBLAC1 30A Units come with 3/4" NPT Hub

60A & 100A Units come with 1 1/4" NPT Hub

UL Listed, CSA Certified TYPE 4, 4X and 12K Enclosure Rating



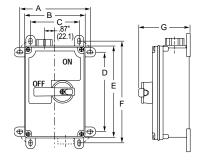


IP67

The Circuit-Lock Disconnect Switch meets NEC Article 430 requirements for a separate disconnect means within sight of all motor loads. In addition, the enclosure offers the ability to lock directly wired motor loads in the "OFF" position to comply with OSHA Lockout/Tagout regulations. This safety enclosure is Type 4X (Washdown, Corrosion resistant) and is also suitable for use with metallic conduit. The switch is mounted on an internal frame that is integral with the enclosure and bonds all grounds, and it accepts auxiliary contacts that can be used to signal PLC controllers.

Circuit-Lock Unfused Disconnect Switch

Dimensions



Key	30A inch	mm	60A/10 inch	60A/100A inch mm	
A	6.00	152	7.75	197	
В	5.12	130	6.87	175	
С	4.12	105	4.75	121	
D	6.62	168	8.00	203	
E	7.62	194	9.95	253	
F	8.50	216	11.00	279	
G	4.12	105	5.94	151	

Horsepower Ratings

	30A	60A	100A	
Voltage				
120V AC 1Ø	1	7.5	7.5	
208V AC 1Ø	-	-	-	
208-240V AC 1Ø	3	15	15	
240-277V AC 1Ø	-	-	-	
480V AC 1Ø	5	30	30	
208V AC 3Ø	-	-	-	
208-240V AC 3Ø	7.5	30	30	
240V AC 3Ø	-	-	-	
480V AC 3Ø	15	50	50	
600V AC 3Ø	15	50	50	
Note: See page C	20 for to	shnical c	tata	

Note: See page C-30 for technical data.



Safety Devices

Switched Enclosures

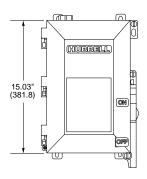
Circuit-Lock® 30 and 60 Ampere Fused Disconnect Switch "Suitable as Motor Disconnect"

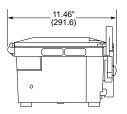


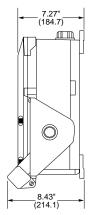
Circuit-Lock Fused Disconnect Switch

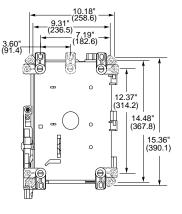
The Circuit-Lock Fused Disconnect Switch provides fused switched control of a directly wired load. The switch cannot be turned "ON" unless the enclosure cover is closed. The fuses cannot be accessed until the switch is turned "OFF". The fuse holder accepts Class "J" fuses. This enclosure is non-metallic and is listed for Outdoor/Indoor (Type 4X Washdown, Corrosion resistant). The handle can be locked in the "OFF" position to comply with OSHA Lockout/Tagout regulations.

Dimensions









Safety Devices

Switched Safety Enclosures Circuit-Lock® 30 and 60 Ampere Fused Disconnect Switch

UL Listed, CSA Certified TYPE 4, 4X and 12 Enclosure Rating



IP67

Ordering Information 30A & 60A

Ratings	Volts	Std. HP	Max. HP*	Catalog Numbers
30A	120V AC	0.5	2.0	FDS30
600V AC	208-240V AC	1.5	3.0	
Max.	240V AC 3Ø	3.0	7.5	
	480V AC 3Ø	5.0	15.0	
	600V AC 3Ø	7.5	20.0	
	120/208V AC 3Ø Y	3.0	5.0	
	277/480V AC 3Ø Y	5.0	15.0	
	347/600V AC 3Ø Y	7.5	20.0	
60A	120V AC	1.5	3.0	FDS60
600V AC	208-240V AC	3.0	7.5	
Max.	240V AC 3Ø	7.5	15.0	
	480V AC 3Ø	15.0	30.0	
	600V AC 3Ø	15.0	40.0	
	120/208V AC 3Ø Y	7.5	15.0	
	277/480V AC 3Ø Y	15.0	30.0	
	347/600V AC 3Ø Y	15.0	40.0	

^{*}Requires time delay fuses.

Auxiliary Contacts

Description	Catalog Numbers
Auxiliary contact normally open, A600 pilot duty.	ACFSNO
Auxiliary contact normally closed, A600 pilot duty.	ACFSNC

Fuse & Short Circuit Information

Horsepower Ratings	The starting current of motors of more than the standard horsepower rating may require the use of fuses with appropriate time-delay characteristics.
Short Circuit Withstand Rating	Suitable for use on a circuit capable of delivering not more than 100,000 RMS symmetrical amperes at the voltage rating of receptacle when protected by Class "J" fuses.

Replacement fused switch must be the same type Hubbell switch as original and have equal or greater short circuit current withstand rating. Note: See page C-32 for technical data.



Accessories

Nylon and Metal Wall Plates





Standard Size, Smooth Nylon Switch Plates

Gangs	Brown	lvory	Gray	White	Red	Black	Office White
1	P1X	P1	P1G	P1W	P1R	P1B	P1OW
2	P2X	P2	P2G	P2W	P2R	P2B	P2OW
3	P3X	P3	P3G	P3W	P3R	P3B	P3OW

Standard Size, Smooth Nylon Style Line® Switch Plates

Gangs	Brown	lvory	Gray	White	Red	Black	Office White
1	HPS1	HPS1I	HPS1GY	HPS1WA	HPS1R	HPS1B	HPS10W
2	HPS2	HPS2I	HPS2GY	HPS2WA	HPS2R	HPS2B	HPS2OW
3	HPS3	HPS3I	HPS3GY	HPS3WA	-	HPS3B	HPS3OW

Standard Size, Smooth Metal Switch Plates

Gangs	Stainless Steel	Brass	Aluminum
1	S1	B1	A1
2	S2	B2	A2
3	S3	В3	*

Standard Size, Smooth Metal, Style Line Switch Plates

Gangs	Stainless Steel	Brass	Aluminum
1	S26	B26	*
2	S262	B262	*
3	S263	B263	*

Note: See Section K for full line of wall plates.



One-gang 1 toggle switch



Two-gang 2 toggle switches



Three-gang 3 toggle switches



One-gang



Two-gang



Three-gang

^{*} Available as a custom metal wall plate, see page K-29

Accessories

Red Neon Pilot Light and Brass Locking Attachment and Lockout Devices for Toggle Switches





HBL96061 shown with wallplate and switch







Pilot Light, 120-277V AC

Description	Catalog Number
Red neon pilot light, back & side wired, fits standard switch plate.	HBL1220RJ

Brass Locking Attachment for Switches Available in Master Keying and Straight Keying Systems

Description	Catalog Numbers
Straight keying (all locks alike). Appropriate for most applications. Straight cylinder type lock, each HBL96061 ordered operates on the same key. All locks are keyed alike.	HBL96061*
Straight keying (individual). Straight cylinder type lock, each HBL96062 ordered operates on a different key. All locks are keyed differently and individually. This type cannot be master keyed.	HBL96062
Master keying (individual). Cylinder type lock for master keying, each lock keyed individually with a master key to operate all locks.	HBL96060
Notes: *Also available in dull chrome finish to match stainless steel. Add "DCH" suffix to catalog number.	

SWITCHOUT™ Lockout Device

Description	Catalog Number
Yellow nylon, toggle switch lockout device.	HSLDPK2***

Notes: For more information on safety lockout devices, see Section U.

+ Two devices per package.

**Not UL or CSA Listed.

Accessories

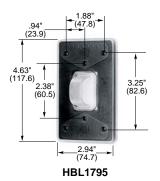
Weatherproof Switch Plates



IP44

Weatherproof Plates

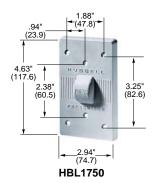
Description	Catalog Number
Clear bubble plate, silicone rubber for use with all general purpose AC toggle and PresSwitches® switches. Fits both FS/FD and standard boxes.	HBL1795



Weatherproof Plates

Description	Catalog Numbers
Gray neoprene PresSwitch plate. Fits FS/FD and standard boxes.	HBL1750*
Same as above except yellow.	HBL17CM50*

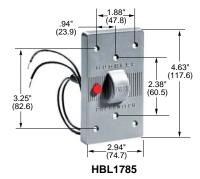
Note: *Not listed by Underwriter's Laboratories Inc.



Weatherproof Plates

Description	Catalog Numbers
Gray neoprene PresSwitch plate with 125V red pilot light. Fits only FS/FD boxes.	HBL1785*
Same as above except yellow.	HBL17CM85*

Note: *Not listed by Underwriter's Laboratories Inc.



Weatherproof Plates

Description	Catalog Number
Cast aluminum lift cover plate with fiber shield. For standard toggle and PresSwitches. Fits only FS/FD boxes.	HBL7420

Note: See Section K for full line of wall plates.



Technical Information

Industrial Heavy Duty Specification Grade Switches

SP, DP, 3-Way, 4-Way

Specifications

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

Performance Data	
Electrical	
Dielectric Voltage Max. Working Voltage Overload Temperature Rise Max. Continuous Current Endurance	Withstands 1500V AC minimum for 1 minute. 277V AC Minimum 4.8 times rated current for 100 cycles. 30° C maximum at rated current. 15A, 20A, 30A. 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 wire.
Environmental	
Flammability Operating Temperature	UL 94V-2. Max. continuous: 75° C; Min. continuous: -40° C w/o impact.

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
30A Suitable as Motor Disconnect	Yoke	Zinc Plated Steel
UL File E70402	Toggle	Nylon
CSA File LR-46186	Terminal Screws	Brass
	Contact Blades	Brass
	Contacts	Silver Cadmium Oxide
	Brush Lifter	Polycarbonate

Electrical	
Dielectric Voltage Electrical Life (Minimum) Working Voltage Short Circuit Withstand Rating (Motor Disconnect) Operating Temperature Mechanical Life (minimum) Terminal Torque (30A, 40A) Terminal Torque (60A)	2,200V AC max for 1 minute. 6,000 cycles at rated switch parameters. 600V AC RMS. 5,000 and 10,000 RMS with RK5 fuses at rated switch value. Min. continuous: -40° C w/o impact 10,000 Cycles. 20 inch pounds. 25 inch pounds.
Mechanical	
Terminal Accommodations	30A #14 AWG min #10 AWG max. solid and stranded wire.
	40A #14 AWG min #8 AWG max. solid and stranded wire.*
	60A #14 AWG min #4 AWG max. solid and stranded wire

Note: *Use listed/certified ring terminal.

Listing Chart

UL, CSA, and Fed. Spec. Listing Data

Catalog Numbers	Federal Spec. WS896 Listed	UL Listed UL20	CSA Certified
CS115	No	Yes	Yes
CS315	No	Yes	Yes
CS120	No	Yes	Yes
CS320	No	Yes	Yes
CS1201	Yes	Yes	Yes
CS1203	Yes	Yes	Yes
CS1221	Yes	Yes	Yes
CS1222	Yes	Yes	Yes
CS1223	Yes	Yes	Yes
CS1224	Yes	Yes	Yes
HBL1201	Yes	Yes	Yes
HBL1202	Yes	Yes	Yes
HBL1203	Yes	Yes	Yes
HBL1204	Yes	Yes	Yes
HBL1201IL	Yes	Yes	Yes
HBL1203IL	Yes	Yes	Yes
HBL1201PL	Yes	Yes	Yes
HBL1203PL	Yes	Yes	Yes
HBL1201L	Yes	Yes	Yes
HBL1202L	Yes	Yes	Yes
HBL1203L	Yes	Yes	Yes
HBL1204L	Yes	Yes	Yes
HBL1221	Yes	Yes	Yes
HBL1222	Yes	Yes	Yes
HBL1223	Yes	Yes	Yes
HBL1224	Yes	Yes	Yes
HBL1221L	Yes	Yes	Yes
HBL1222L	Yes	Yes	Yes
HBL1223L	Yes	Yes	Yes
HBL1224L	Yes	Yes	Yes
HBL1221IL	Yes	Yes	Yes
HBL1222I	Yes	Yes	Yes
HBL1223IL	Yes	Yes	Yes
HBL1221PL	Yes	Yes	Yes
HBL1222PL	Yes	Yes	Yes
HBL1223PL	Yes	Yes	Yes
HBL1259I	No	No	No
HBL1281	No	Yes	Yes
HBL1282	No	Yes	Yes
HBL1283	No	No	No

Catalog	Fodoral Space	UL Listed	CSA
Catalog Numbers	Federal Spec. WS896 Listed	UL20	CSA Certified
HBL1284	No	No	No
HBL1287I	No	Yes	Yes
HBL1288I	No	No	No
HBL1281MO	No	No	No
HBL1281MC	No	No	No
HBL1297	No	Yes	Yes
HBL1298	No	No	No
HBL1381	No	Yes	Yes
HBL1382	No	Yes	Yes
HBL1385	No	Yes	Yes
HBL1386	No	Yes	Yes
HBL1386L	No	Yes	Yes
HBL1388	No	Yes	Yes
HBL1556	No	Yes	Yes
HBL1557	No	Yes	Yes
HBL1556L	No	Yes	Yes
HBL1557L	No	Yes	Yes
HBL3031	Yes	Yes	Yes
HBL3032	Yes	Yes	Yes
HBL3033	Yes	Yes	Yes
HBL3031PL	Yes	Yes	Yes
HBL3032PL	Yes	Yes	Yes
HBL2101	No	Yes	Yes
HBL2103	No	Yes	Yes
HBL2121	No	Yes	Yes
HBL2122	No	Yes	Yes
HBL2123	No	Yes	Yes
HBL2124	No	Yes	Yes
HBL2123IL	No	Yes	Yes
HBL2121PL	No	Yes	Yes
HBL7832	No	Yes*	Yes
HBL7832BW	No	Yes*	Yes
HBL7810UD	No	Yes*	Yes
HBL7810BW	No	Yes*	Yes
HBL7842	No	Yes*	Yes
HBL7843	No	Yes*	Yes
HBL7862	No	Yes*	Yes
HBL7862FW	No	Yes*	Yes
HBL7863	No	Yes*	Yes
HBL7863FW	No	Yes*	Yes

Notes: Catalog numbers above represent all colors and variations.
* Motor starting switches are listed to UL508.

Wiring Device-Kellems

AC Dimmers

Technical Data

Dimmer - Ganging and Derating

Architectural Grade Slide and Rotary Series

Switchboxes Required: Side Sections Intact

		Nun	Number of Small Controls (600W & 1000W)					
		0	1	2	3	4	5	6
Number of	0	0	1	1+1	4	1+4	7	1+7
Large Controls	1	1	3	5	6	8	9	11
(1500W & 2000W)	2	4	6	7	9	10	12	13
,	3	6	8	10	11	13	14	16
	4	9	11	12	14	15	17	18

Note: When ganging an even number of small controls with no side sections removed (plus numbers in chart), use gangable switchboxes with tapped ears as shown below. Do not use plaster rings or gangbox covers. Space an additional switchbox 3/4" apart from the other switchbox(es). A 3/4" close nipple is recommended as a spacer between the switchboxes.

Switchboxes Required: Side Sections Removed

	Number of Small Controls (600W & 1000W)							
		0	1	2	3	4	5	6
Number of	0	0	1	2	3	4	5	6
Large Controls	1	1	3	4	5	6	7	8
(1500W & 2000W)	2	3	5	6	7	8	9	10
,	3	5	7	8	9	10	11	12
	4	7	9	10	11	12	13	14

Note: When removing side sections, remove only inner side sections. Do not remove side sections on outer ends of gang.

Same installation rules apply to rotary dimmers (not shown).

Derating Chart

_ · · · · · ·		
No side sections removed	One side section removed	Both side sections removed
600W	600W	500W
1000W	900W	700W
1500W	1250W	1000W
2000W	1800W	1500W

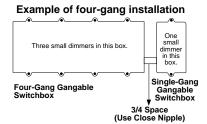
Note: When ganging any combination of small and large controls, place a small control on one extreme end of the gang, and a large control at the other end of the gang. When ganging with side sections intact, use offset mounting holes. When ganging with side sections removed, use center mounting holes. Allow a 1/32" gap (space) between controls for ease in attaching the faceplate.

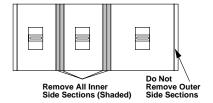
Specification Grade Slide and Rotary Series

Switchboxes Required: Side Sections Removed.

Derating Chart

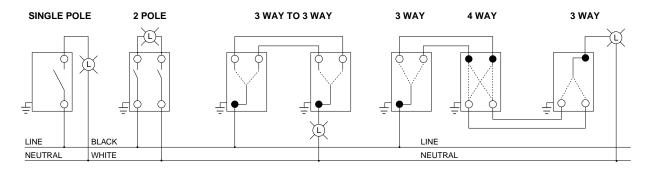
1 dimmer in wall box	2 dimmers in wall box	3 or more dimmers in wall box
600W	500W	400W
1000W	W008	650W
5A fan speed	4A	3A



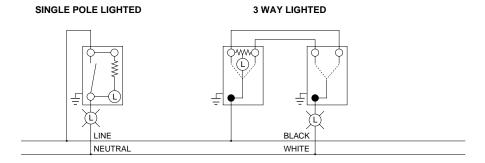


Toggle Switch Wiring Diagrams

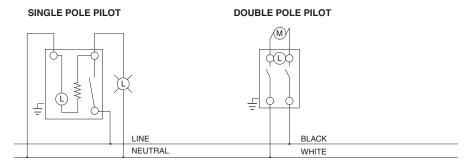
Standard Toggle Type Switches



Lighted Switches (light on with load off)

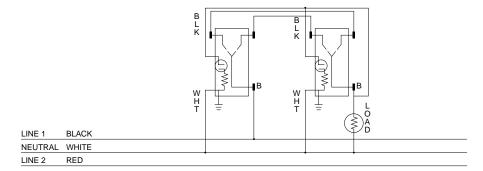


Pilot Light Switches (light on with load on)

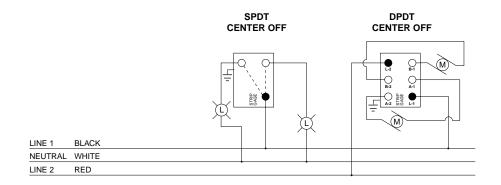


Toggle Switch Wiring Diagrams

Three Way Pilot Switches



Three Position Switches, Momentary and Maintained



Technical Information Switched Safety Enclosures

Circuit-Lock® Unfused Disconnect Switch

Specifications	
Moisture Resistance	Outdoor – Type 4X (Washdown, Corrosion resistant), IP 66 suitability; Indoor – 30A Type 12K (Dust-tight, Falling Dirt, Noncorrosive Liquids with Knockout). 60 and 100A Type 12 (Dust-tight, Falling Dirt, Noncorrosive Liquids).
Flammability	UL94-5VA and Vo Classification.
Operating Temperature	Maximum Continuous +75°C; Minimum Continuous -40°C.
UV Resistance	All materials are UV stabilized.
Dielectric Voltage	Withstands 3000V AC minimum.
Max. Working Voltage	600V AC RMS.
Current Interrupting	Certified for current interrupting at full rated current and voltage.
Short Circuit Withstand Rating (Motor Disconnect)	Suitable for use on a circuit capable of delivering not more than 10,000 RMS symmetrical amperes, 600V AC max.
Terminal Identification	In accordance with UL, CSA and international conventions.
Product Identification	Identification and ratings are part of external label.
Mounting	External fully adjustable feet.
Impact Resistance	In accordance with UL 746C.

Circuit-Lock Fused Disconnect Switch

Specifications		
Moisture Resistance	Outdoor – Type 4X (Washdown, Corrosion resistant), IP 66 suitability;	
	Indoor - Type 12 (Dust-tight, Falling Dirt, Noncorrosive Liquids).	
Flammability	UL94-5VA and V0 Classification.	
Operating Temperature	Maximum Continuous +75°C;	
	Minimum Continuous -40°C.	
UV Resistance	All materials are UV stabilized.	
Dielectric Voltage	Withstands 3000V AC minimum.	
Max. Working Voltage	600V AC RMS.	
Impact Resistance	In accordance with UL 746C.	
Terminal Identification	In accordance with UL, CSA and international conventions.	
Product Identification	Identification and ratings are part of external label.	
Mounting	External fully adjustable feet.	
Fuse Types	UL Listed, Class "J"; CSA Certified, HRCI-J.	

Circuit-Lock Unfused and Fused Disconnect Switch

Part	Material	
Base	Valox®	
Тор	Valox	
Handle	Valox	
Conduit Hub	Zinc Watertight 30A Unfused - 3/4", 30A Fused - 1", 60/100A Unfused - 1 1/4"	
Enclosure Gasket	Neoprene	
Shaft (Unfused)	Valox	
Shaft (Fused)	Brass	
Shaft Seal	Molded Neoprene	
Frame	Galvanized Steel	
Ground Plate (Fused)	Galvanized Steel	
Enclosure Screws	Stainless Steel 300 Series	

[®] Valox is a registered trademark of General Electric Company.

