Section C **Switches**

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SNAP Connect® and Pre-Wired/Leaded Switches



Manual Motor Controllers

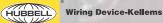


Switched Enclosures



Switches

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Index

Switches SNAP Connect[®] Toggle and Decorator Series

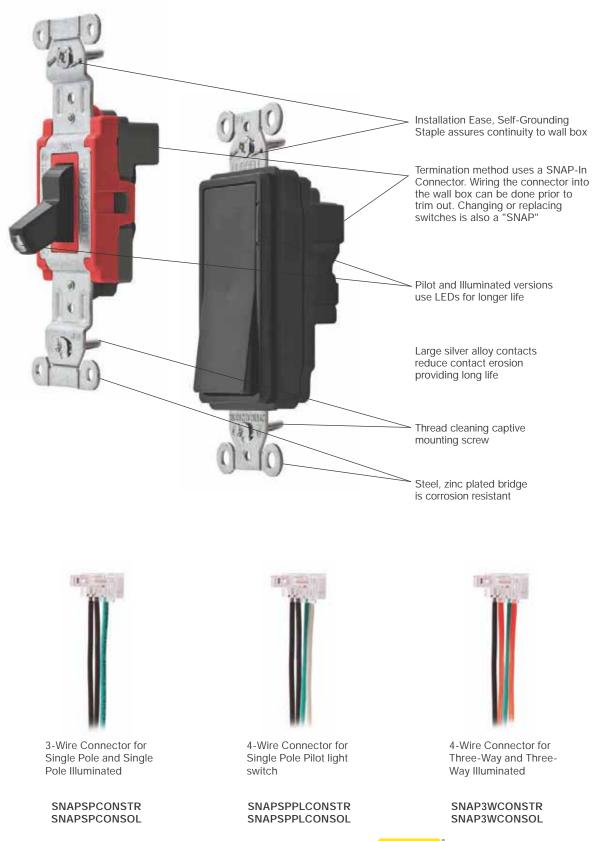




Switches **SNAP***Connect*[®] Toggle and Decorator Series *Features and Benefits*



Switches



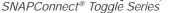
Dimensions in Inches (mm)

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Wiring Device-Kellems

Switches **15 and 20 Ampere, 120-277 Volts AC** SNAPConnect[®] Toggle Series





SNAP Connect® Toggle Series Specification Grade, 15A, 120-277V AC

SNAP Connect[®] Toggle Series Specification Grade,

Single Pole

SNAP1201ILW

.88" (22.4) 1.74" (44.1) 2.38" (60.3) 4.18" (106.2) #6-32 TAP 1.30 (33.0) SNAP1201BK

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle.	Black	SNAP1201BK	_	SNAP1203BK	_
00	Brown	SNAP1201BR	_	SNAP1203BR	_
	Gray	SNAP1201GY	_	SNAP1203GY	_
	lvory	SNAP1201I	_	SNAP1203I	_
	Light Almond	SNAP1201LA	_	SNAP1203LA	_
	Red	SNAP1201R	_	SNAP1203R	_
	White	SNAP1201W	_	SNAP1203W	

20A. 120-277V AC

204, 120-21	I AU				
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle.	Black	SNAP1221BK	_	SNAP1223BK	_
	Brown	SNAP1221BR	—	SNAP1223BR	_
	Gray	SNAP1221GY	_	SNAP1223GY	_
	lvory	SNAP1221I	_	SNAP1223I	_
	Light Almond	SNAP1221LA	_	SNAP1223LA	_
	Red	SNAP1221R		SNAP1223R	_
	White	SNAP1221W		SNAP1223W	_

Double Pole

_

Three Way

SNAP1203ILBK

SNAP1203ILI

SNAP1203ILR

SNAP1203ILW

Four Way

_

.88 (22.4) 1 74" 4.1) 2.38' (60.3) 4.18" (106.2) #6-32 TAP 1.30 (33.0)

SNAP1221BK



Black SNAP1201ILBK Toggle, Blue LED. lvory SNAP1201ILI Red SNAP1201ILR

White

Illuminated, Light On with Load Off

Toggle Color

Pilot, Light On with Load On

15A. 120-277V AC

15A, 120-277V AC

Description

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle,	Black	SNAP1201PLB	< _	_	_
Red LED.	lvory	SNAP1201PLI	_	_	_
	Red	SNAP1201PLR	_	_	_
	White	SNAP1201PLW	_	_	_

Illuminated, Light On with Load Off 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle,	Black	SNAP1221ILBK	_	SNAP1223ILBK	_
Blue LED.	lvory	SNAP1221ILI	_	SNAP1223ILI	_
	Red	SNAP1221ILR	_	SNAP1223ILR	_
	White	SNAP1221ILW	_	SNAP1223ILW	_

Pilot, Light On with Load On 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle,	Black	SNAP1221PLBK	—	_	_
Red LED.	lvory	SNAP1221PLI	_	_	_
	Red	SNAP1221PLR	_	_	_
	White	SNAP1221PLW	_	_	_

SNAP Connect® Pigtails

Description	Single Pole (3 Wires)	3 Way (4 Wires)	Single Pole with Pilot
Stranded Wire.	SNAPSPCONSTR	SNAP3WCONSTR	SNAPSPPLCONSTR
Solid Wire.	SNAPSPCONSOL	SNAP3WCONSOL	SNAPSPPLCONSOL

SNAP3WCONSTR

HP Conversion Chart							
	120V	208V	240V	277V AC			
15A	.5HP	1.5HP	2HP	2HP			
20A	1HP	2HP	2HP	2HP			

Note: See page C-15 for accessories. See page C-16 for wallplates. See page C-18 for wiring diagrams.





Switches 15 and 20 Ampere, 120-277 Volts AC

SNAPConnect® Decorator Series

SNAP Connect® Decorator Series Specification Grade,

15A, 120-27		Single Dele	Daubla Dala		Four Wov
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker.	Black	SNAP2101BK	_	SNAP2103BK	_
	Brown	SNAP2101BR	_	SNAP2103BR	_
	Gray	SNAP2101GY	_	SNAP2103GY	_
	lvory	SNAP2101I	_	SNAP2103I	—
	Light Almond	SNAP2101LA	_	SNAP2103LA	_
	Red	SNAP2101R	—	SNAP2103R	—
	White	SNAP2101W	—	SNAP2103W	_
20A, 120-27	77V AC				
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker.	Black	SNAP2121BK	_	SNAP2123BK	_
	Brown	SNAP2121BR	_	SNAP2123BR	_
	Gray	SNAP2121GY	_	SNAP2123GY	_
	lvory	SNAP2121I	_	SNAP2123I	_

SNAP2123LA

SNAP2123R

SNAP2123W

SNAP Connect® Decorator Series Specification Grade, Illuminated, Light On with Load Off 15A, 120-277V AC

SNAP2121LA

SNAP2121R

SNAP2121W

Light Almond

Red

White

10/ 4, 120 21					
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Blue LED.	Black Ivory Red	SNAP2101ILBK SNAP2101ILI SNAP2101ILR		SNAP2103ILI SNAP2103ILI SNAP2103ILI	
	White	SNAP2101ILW		SNAP2103IL\	-

Pilot, Light On with Load On 15A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker,	Black	SNAP2101PLB		_	_
Red LED.	lvory	SNAP2101PLR	l —	—	—
	Red	SNAP2101PLI	_	—	—
	White	SNAP2101PLW	V		

Illuminated, Light On with Load Off 20A. 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker,	Black	SNAP2121ILB	< _	SNAP2123ILB	、 _
Blue LED.	lvory	SNAP2121ILI	_	SNAP2123ILI	_
	Red	SNAP2121ILR	_	SNAP2123ILR	_
	White	SNAP2121ILW		SNAP2123ILW	

Pilot, Light On with Load On 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Red LED.	Black Ivory	SNAP2121PLB SNAP2121PLI		_	_
	Red White	SNAP2121PLF SNAP2121PLV	-	—	—

SNAP Connect® Pigtails

Description	Single Pole (3 Wires)	3 Way (4 Wires)	Single Pole with Pilot
Stranded Wire.	SNAPSPCONSTR	SNAP3WCONSTR	SNAPSPPLCONSTR
Solid Wire.	SNAPSPCONSOL	SNAP3WCONSOL	SNAPSPPLCONSOL

Note: See page C-15 for accessories.

See page C-16 for wallplates. See page C-18 for wiring diagrams.



15Δ

20A

240V 277V AC

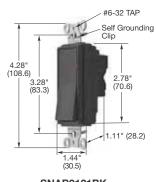
2HP

2HP

2HP

2HP





SNAP2121BK







100%

SNAP3WCONSTR

HP Conversion Chart

208V

2HP

1.5HP

120V

5HP

1HP





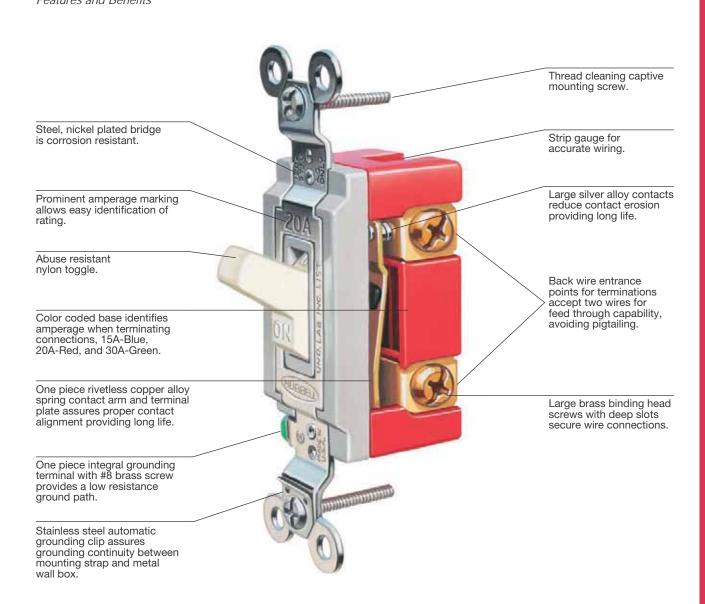
Switches







Switches HBL[®] Extra Heavy Duty Industrial Grade Features and Benefits





One piece rivetless copper alloy spring contact arm and terminal plate assures proper contact alignment reducing heat rise. Large silver alloy 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 quiet operation and precise timing. 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.

NEC[®] is a registered trademark of the National Fire Protection Association (NFPA).

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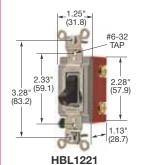
Features and Benefits

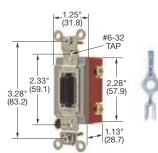
Switches

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

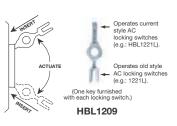


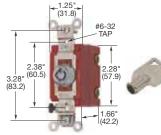
HBL® Extra Heavy Duty Industrial Series



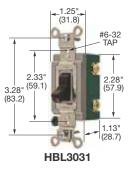


HBL1221L and Key





HBL1222RKL and Key



HBL[®] Extra Heavy Duty Industrial Series

HBL Extra Heavy Duty Industrial Series, Back and Side Wired 15A. 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond Black Brown Gray Ivory Light Almond Red White	HBL1201AL HBL1201BK HBL1201 HBL1201GY HBL1201LA HBL1201LA HBL1201R HBL1201W	— HBL1202 HBL1202I — — —	HBL1203AL HBL1203BK HBL1203 HBL1203GY HBL1203I HBL1203W	— HBL1204BK HBL1204 HBL1204GY HBL1204I — — HBL1204W

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20A, 120-277V AC							
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way		
Toggle, back and side wired.	Almond Black Brown Gray Ivory Light Almond Office White Red White	HBL1221AL HBL1221BK HBL1221 HBL1221GY HBL1221LA HBL1221LA HBL1221OW HBL1221R HBL1221W	HBL1222AL HBL1222BK HBL1222GY HBL1222GY HBL1222IA HBL1222AW HBL1222AW HBL1222W	HBL1223AL HBL1223BK HBL1223 HBL1223GY HBL1223I HBL1223LA HBL1223OW HBL1223R HBL1223W	HBL1224AL HBL1224BK HBL1224 HBL1224GY HBL1224I HBL1224LA HBL1224DW HBL1224R HBL1224W		



Description	Key Guide Color	Single Pole	Double Pole	Three Way	Four Way
Key Guide, back and side wired.	Black Gray Ivory White	HBL1201L HBL1201LG HBL1201LI HBL1201LW	HBL1202L HBL1202LG HBL1202LI HBL1202LW	HBL1203L HBL1203LG HBL1203LI HBL1203LW	HBL1204L HBL1204LG HBL1204LI HBL1204LW
Key for Locking switch.		HBL1209*			

00 4 120 2771/ 10

20A, 120-277V AC							
Description	Key Guide Color	Single Pole	Double Pole	Three Way	Four Way		
Key Guide, back and side wired.	Black Gray Ivory White	HBL1221L HBL1221LG HBL1221LI HBL1221LW	HBL1222L HBL1222LG HBL1222LI HBL1222LW	HBL1223L HBL1223LG HBL1223LI HBL1223LW	HBL1224L HBL1224LG HBL1224LI HBL1224LW		
Key for Locking	switch.	HBL1209*					

HBL Extra Heavy Duty Industrial AC Barrel Key Locking Switch, Back and Side Wired

20A. 120-277V AC

Description	Key Guide Color	Single Pole	Double Pole	Three Way	Four Way
Chrome operator, back and side wired.	Chrome	HBL1221RKL**	HBL1222RKL**	HBL1223RKL**	HBL1224RKL**
Replacement Barre	el Key.	HBL1209RKL*			
30A, 120-277V	AC				

Description	Key Guide Color	Single Pole	Double Pole	Three Way	Four Way
Nylon toggle.	Brown	HBL3031	HBL3032	HBL3033	_
	lvory	HBL3031I	HBL3032I	HBL3033I	_

See page C-15 for accessories. See page C-16 for wallplates.

See page C-17 for technical data.

See page C-18 for wiring diagrams. * Not UL Listed, CSA Certified. ** Not Fed. Spec.

HP Conversion Chart							
	120V	208V	240V	277V AC			
15A	.5HP	1.5HP	2HP	2HP			
20A	1HP	2HP	2HP	2HP			
30A	2HP	2HP	2HP	2HP			

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Wiring Device-Kellems

Dimensions in Inches (mm)

Switches 15, 20 and 30 Ampere, 120-277 and 347 Volts AC

HBL[®] Extra Heavy Duty Industrial Series Momentary Contact and Maintained Contact Specification Grade

HBL Extra Heavy Duty Industrial Series, Illuminated and Pilot Light Toggle Switches, Illuminated Toggle, Light On with Load Off, Back and Side Wired

Description	Toggle Color	Rating	Single Pole	Double Pole	Three Way
Nylon toggle, back and side wired.	lvory	15A 120-277V AC	HBL1201IL	—	HBL1203IL
	lvory Clear	20A 120-277V AC	HBL1221IL HBL1221ILC	_	HBL1223IL HBL1223ILC
	Red		HBL1221ILR	_	_

Pilot Light, Light On with Load On

Description	Toggle Color	Rating	Single Pole	Double Pole	Three Way	
Nylon toggle, back and side wired.	Red	15A 120-277V AC	HBL1201PL	—	HBL1203PL	
	Red Clear Green	20A 120-277V AC	HBL1221PL HBL1221PLC HBL1221PLG	HBL1222PL — —	HBL1223PL HBL1223PLC —	
	Red	30A 120-277V AC	HBL3031PL	HBL3032PL	_	

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

	,	, ,		_
Description	Toggle Color	15A, 120-277V AC	20A, 120-277V AC	
Nylon toggle,	Brown	HBL1556	HBL1557	
back and	Gray	HBL1556GY	HBL1557GY	
side wired.	lvory	HBL1556I	HBL1557I	
	Red	HBL1556R	_	
	White	HBL1556W	HBL1557W	
Key guide,	Black	HBL1556L	HBL1557L	
back and	lvory	HBL1556LI	HBL1557LI	
side wired.	White	HBL1556LW	HBL1557LW	
Key for Locking s	switch.	HBL1209*		

Maintained Contact, Specification Grade, Three Position, Two Circuit, Center Off, Single Pole, Double Throw

Three Position,	Three Position, Two Circuit, Center On, Single Pole, Double Throw						
Description	Toggle Color	15A 120-277V AC	20A 120-277V AC	30A 120-277V AC			
Nylon toggle, back	Brown	HBL1381	HBL1385	_			
and side wired.	lvory	HBL1381I	HBL1385I	—			
	White	—	HBL1385W	—			

Double Pole, Double Throw

Description	Toggle Color	15A 120-277V AC	20A 120-277V AC	30A 120-277V AC
Nylon toggle, back and side wired.	Brown Ivory	HBL1382 HBL1382I	HBL1386 HBL1386I	HBL1388 HBL1388I
Locking.		—	HBL1386L	—
Key for Locking swi	tch.	_	HBL1209*	_

Note: Keys are supplied with each locking switch. For extra keys order HBL1209.

See page C-15 for accessories.

See page C-16 for wallplates.

See page C-17 for technical data.

See page C-18 for wiring diagrams.

* Not UL Listed, CSA Certified.

HP Conversion Chart

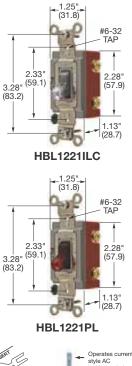
	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP
30A	2HP	2HP	2HP	2HP



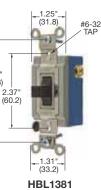




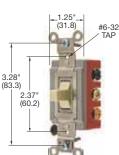
Switches







3.28" (83.3)

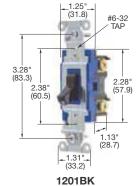


+_1.31"_+ (33.2) HBL1386I

HBL[®] Extra Heavy Duty Industrial Series

Switches **15 and 20 Ampere, 120-277 Volts AC** Hubbell-Pro[™] Heavy Duty Industrial Series





25 (31.8)

1.31"
(33.2) 12211

> 25 (31.8)

÷

1.25" (31.8)

G _1.31"_ (33.2) 1221PWI

3.28" (83.3)

3.28" (83.3)

3.28" (83.3)

2.38" (60.5)

1.31" (33.2)

2.38" (60.5)

2.38" (60.5)

#6-32 ⁄ TAP

2.28" (57.9)

1.13" (28.7)

#6-32 ⁄ TAP

(28.7)

#6-32 ⁄ TAP

2.28" (57.9)

1.13" (28.7)

28 7.9)

Hubbell-Pro[™] Heavy Duty Industrial Series, 15A. 120-277V AC

	11/10				
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle,	Almond	1201AL	_	1203AL	_
back and	Black	1201BK	_	1203BK	_
side wired.	Brown	1201B	_	1203B	_
	Gray	1201GY	—	1203GY	
	lvory	12011	_	12031	_
	Light Almond	1201LA	_	1203LA	_
	White	1201W	_	1203W	_

Hubbell-Pro[™] Heavy Duty Industrial Series,

20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle,	Almond	1221AL	1222AL	1223AL	1224AL
back and	Black	1221BK	1222BK	1223BK	1224BK
side wired.	Brown	1221B	1222B	1223B	1224B
	Gray	1221GY	1222GY	1223GY	1224GY
	lvory	12211	12221	12231	12241
	Light Almond	1221LA	1222LA	1223LA	1224LA
	Red	1221R	1222R	1223R	1224R
	White	1221W	1222W	1223W	1224W

Hubbell-Pro[™] Pre-Wired/Leaded Heavy Duty Industrial Series - 8" #12 AWG THHN 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Pre-wired leads.	Almond Black Brown Gray Ivory Light Almond Office White Red White	1221PWAL 1221PWBK 1221PWB 1221PWGY 1221PWI 1221PWLA 1221PWCW 1221PWR 1221PWR	1222PWAL 1222PWBK 1222PWB 1222PWGY 1222PWI 1222PWLA 1222PWOW 1222PWR 1222PWW	1223PWAL 1223PWBK 1223PWB 1223PWGY 1223PWI 1223PWLA 1223PWOW 1223PWR 1223PWR 1223PWW	1224PWAL 1224PWBK 1224PWB 1224PWGY 1224PWI 1224PWLA 1224PWCW 1224PWCW 1224PWR 1224PWW

Hubbell-Pro[™] Hospital Call Switch, with Lanyard 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle,	Gray	HBL1221GHCS	_	_	_
back and	Ivory	HBL1221IHCS	_	_	_
side wired.	White	HBL1221WHCS	_	_	_

Note: See page C-15 for accessories.

See page C-16 for wallplates.

See page C-18 for wiring diagrams.

HP Conversion Chart						
	120V	208V	240V	277V AC		
15A	.5HP	1.5HP	2HP	2HP		
20A	1HP	2HP	2HP	2HP		

C-10

HBL1221IHCS



Dimensions in Inches (mm)

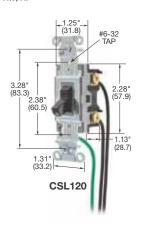
Switches **15 and 20 Ampere, 120-277 Volts AC** *Pre-Wired/Leaded Toggle and Decorator Series*

Rocker Color

Description

Pre-Wired/Leaded Toggle Series Specification Grade - 8" #12 AWG THHN 15A 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Nylon, Pre-wired leads.	Almond Black Brown Gray Ivory Light Almond Office White White	CSL115AL CSL115BK CSL115 CSL115GY CSL115I CSL115LA CSL115CW CSL115W	CSL215AL CSL215BK CSL215 CSL215GY CSL215I CSL215LA CSL215DW CSL215W	CSL315AL CSL315BK CSL315 CSL315 CSL315GY CSL315LA CSL315DW CSL315W	CSL415AL CSL415BK CSL415 CSL415GY CSL415I CSL415LA CSL415OW CSL415W
20A, 120-277V Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Nylon, Pre-wired leads.	Almond Black Brown Gray Ivory Light Almond Office White Red White	CSL120AL CSL120BK CSL120 CSL120GY CSL120I CSL120LA CSL120OW CSL120R CSL120W	CSL220AL CSL220BK CSL220 CSL220GY CSL220I CSL220LA CSL220OW CSL220R CSL220W	CSL320AL CSL320BK CSL320 CSL320GY CSL320I CSL320LA CSL320OW CSL320R CSL320W	CSL420AL CSL420BK CSL420 CSL420GY CSL420I CSL420IA CSL420CW CSL420R CSL420W



#6-32 TAP

(UL) S

E(Nr

Pre-Wired/Leaded Decorator Series Specification Grade - 8" #12 AWG THHN (H) (R 15A, 120-277V AC

Double Pole

Three Way

Four Way

Single Pole

Description	KOCKEI COIOI	Single Fole	Double Fole	Three Way	Tour way	#6-32 TAP
Rocker, Polycarbonate, Pre-wired leads.	Almond Black Brown Gray Ivory Light Almond Office White White	DSL115AL DSL115BK DSL115 DSL115GY DSL115I DSL115LA DSL115OW DSL115W	DSL215AL DSL215BK DSL215 DSL215GY DSL215I DSL215LA DSL215DW DSL215W	DSL315AL DSL315BK DSL315 DSL315GY DSL315I DSL315LA DSL315CW DSL315W	DSL415AL DSL415BK DSL415 DSL415 DSL415I DSL415LA DSL415LA DSL415OW DSL415W	3.81" (96.7) (83.3) -
20A, 120-277V						
Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way	- <u>1.48"</u> - <u>(28.4)</u>
Rocker, Polycarbonate, Pre-wired leads.	Almond Black Brown Gray Ivory Light Almond Office White White	DSL120AL DSL120BK DSL120 DSL120GY DSL120I DSL120LA DSL120OW DSL120W	DSL220AL DSL220BK DSL220GY DSL220GY DSL220I DSL220LA DSL220OW DSL220W	DSL320AL DSL320BK DSL320 DSL320GY DSL320I DSL320LA DSL320OW DSL320W	DSL420AL DSL420BK DSL420 DSL420GY DSL420I DSL420IA DSL420LA DSL4200W DSL420W	(37.6) DSL315W
Illuminated, Li 20A, 120-277V	AC					
Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way	_
Rocker, Polycarbonate, Pre-wired leads, Blue LED.	Ivory White	DSL120IL DSL120ILW	_	DSL320IL DSL320ILW	_	
Pilot, Light On 20A, 120-277V	AC					-
Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way	_
Rocker, Polycarbonate, Pre-wired leads, Red LED.	Red	DSL120PL	—	—	—	- HP Conversion Chart
Note: See page C-15	for accessories.					120V 208V 240V 277V AC
<i>See page C-16</i> <i>See page C-18</i>	for wallplates. for wiring diagrams.					15A .5HP 1.5HP 2HP 2HP 20A 1HP 2HP 2HP 2HP
Dimensions in Inches (r	mm)		www.hubbell-w	viring.com	JBBELL	Device-Kellems C-11

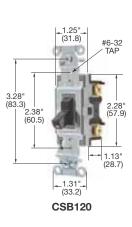


Switches **15 and 20 Ampere, 120-277 Volts AC** Specification Grade Commercial Series



Specification Grade Commercial Series, 15A. 120-277V AC

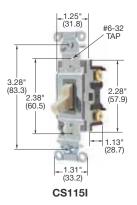
104, 120-211	I AO				
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond Black Brown Gray Ivory Light Almond White	CSB115AL CSB115BK CSB115 CSB115GY CSB115I CSB115LA CSB115LA CSB115W	CSB215AL CSB215BK CSB215 CSB215GY CSB215I CSB215LA CSB215W	CSB315AL CSB315BK CSB315 CSB315GY CSB315GY CSB315LA CSB315LA CSB315W	CSB415AL CSB415BK CSB415 CSB415GY CSB415GY CSB415LA CSB415LA CSB415W



Specification Grade Commercial Series,

20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond Black Brown Gray Ivory Light Almond Red White	CSB120AL CSB120BK CSB120 CSB120GY CSB120I CSB120LA CSB120R CSB120W	CSB220AL CSB220BK CSB220 CSB220GY CSB220I CSB220LA CSB220R CSB220W	CSB320AL CSB320BK CSB320 CSB320GY CSB320I CSB320LA CSB320R CSB320W	CSB420AL CSB420BK CSB420 CSB420GY CSB420I CSB420IA CSB420R CSB420W



Specification Grade Commercial Series, 15A. 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle,	Almond	CS115AL	_	CS315AL	_
side wired only.	Black	CS115BK	_	CS315BK	_
5	Brown	CS115	_	CS315	_
	Gray	CS115GY	_	CS315GY	_
	lvory	CS115I	_	CS315I	_
	Light Almond	CS115LA	_	CS315LA	_
	White	CS115W	_	CS315W	_

Specification Grade Commercial Series, 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle,	Almond	CS120AL	_	CS320AL	_
side wired only.	Black	CS120BK	_	CS320BK	_
	Brown	CS120	_	CS320	—
	Gray	CS120GY	_	CS320GY	_
	lvory	CS120I	_	CS320I	
	Light Almond	CS120LA	—	CS320LA	—
	White	CS120W	—	CS320W	—

Note: See page C-11 for pre-wired/leaded devices. See page C-15 for accessories. See page C-16 for wallplates. See page C-18 for wiring diagrams.

For pre-wired/leaded devices see page C-11.

HP Conversion Chart						
	120V	208V	240V	277V AC		
15A	.5HP	1.5HP	2HP	2HP		
20A	1HP	2HP	2HP	2HP		



Switches 15 and 20 Ampere, 120-277 Volt AC

Style Line® Decorator Series Specification Grade

Style Line[®] Decorator Series Specification Grade, 15A. 120-277V AC

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker,	Almond	DS115AL	_	DS315AL	_
back and	Black	DS115BK	_	DS315BK	_
side wired.	Brown	DS115	_	DS315	_
	Gray	DS115GY	—	DS315GY	_
	lvory	DS115I	—	DS315I	—
	Light Almond	DS115LA	—	DS315LA	_
	Office White	DS1150W	—	DS315OW	—
	White	DS115W	—	DS315W	—

Style Line[®] Decorator Series Specification Grade, 20A, 120-277V AC

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, back and side wired.	Almond Black Brown Gray Ivory Light Almond Office White Red White	DS120AL DS120BK DS120 DS120GY DS120I DS120LA DS120OW DS120R DS120W	DS220AL DS220BK DS220B DS220GY DS220I DS220LA DS220OW DS220R DS220W	DS320AL DS320BK DS320 DS320GY DS320I DS320LA DS320OW DS320R DS320W	DS420AL DS420BK DS420 DS420GY DS420I DS420LA DS420OW DS420R DS420W

Style Line® Decorator Series Specification Grade, Illuminated, Light On with Load Off 20A, 120-277V AC

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker,	Black	DS120ILBK	_	DS320ILBK	_
with Red LED,	lvory	DS120IL	—	DS320IL	_
back and side	White	DS120ILW	—	DS320ILW	_
wired.					

Style Line® Decorator Series Specification Grade, Pilot, Light On with Load On 20A, 120-277V AC

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker,	Black	DS120PLBK	_	_	_
with Blue LED,	lvory	DS120PLI	_	_	_
back and side	White	DS120PLW	_	_	_
wired.					

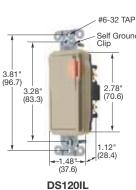
Note: See page C-11 for pre-wired/leaded devices. See page C-15 for accessories. See page C-16 for wallplates.

See page C-18 for wiring diagrams.

HP Conversion Chart						
	120V	208V	240V	277V AC		
15A	.5HP	1.5HP	2HP	2HP		
20A	1HP	2HP	2HP	2HP		



C-13







Self Grounding Clip

Switches 15 and 20 Ampere, 120-277 and 347 Volts AC



HBL[®] Extra Heavy Duty Industrial Series Toggle Type Switches with Ground Screw and 347V AC PresSwitch[®] Specification Grade Push Button Switches

1.30" (33.1) #6-32 _ TAP 4 06 (103.1) 3.53" (89.7) 2.27" (57.7) 2 (6 1 19" (30.2)

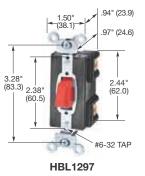
Switches

HBL18221CN

15A, 347V AC			Only		
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon toggle, back and side wired.	Brown Ivory	HBL18201CN HBL18201ICN	_	HBL18203CN HBL18203ICN	HBL18204ICN
Locking.		HBL18201LCN	_	HBL18203LCN	I —
Key for Locking sw	vitch.	HBL1209*			
20A, 347V AC			(Only		
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon toggle, back and side wired.	Brown Ivory	HBL18221CN HBL18221ICN	_	HBL18223CN HBL18223ICN	HBL18224ICN



HBL1281



PresSwitch® Specification Grade Push Button, Standard Type 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon actuator,	Brown	HBL1281	HBL1282	HBL1283*	HBL1284*
side wired only.	Ivory	HBL1281I	HBL1282I	HBL1283I*	HBL1284I*

Momentary Type[•] 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way	
Circuit normally closed, side wired only.	Brown	HBL1281MC*	—	—	—	
Circuit normally open, side wired only.	Brown	HBL1281MO*	—	—	—	

Illuminated and Pilot Light PresSwitch®, 120V AC Lighted Actuator. Light On with Load Off•

HBL[®] Extra Heavy Duty Industrial Series

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
15A, nylon actuator.	lvory	—	—	_	HBL1259I*
20A, nylon actuator.	lvory	HBL1287I	_	HBL1288I*	_

Pilot Light Actuator, Light On with Load On 20A, 120V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon actuator.	Red	HBL1297	—	HBL1298*	—

Note: Keys are supplied with each locking switch. For extra keys order HBL1209.

See page C-15 for accessories. See page C-16 for wallplates.

See page C-17 for technical data.

See page C-17 for recriminal data. See page C-18 for wiring diagrams. * Not UL Listed, CSA Certified.

Not HP rated.

HP Co	onversior	n Chart		
	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP
30A	2HP	2HP	2HP	2HP



Switches **Accessories**

Pilot Light, Brass Locking Attachment and Lockout Devices and Weatherproof Switch Plates for Toggle Switches

Pilot Light, 120-277V AC	
Description	Catalog Number
Red neon pilot light, back and side wired, fits standard switch plate.	HBL1220RJ

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

Description	Catalog Number
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*
Same as above except in dull chrome finish to match stainless steel plates.	HBL96061DCH*
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*

SWITCHOUT[®] Lockout Device

Description	Catalog Number	
Yellow, nylon toggle switch lockout device.	HSLDPK2*+	
Weatherproof Plates		
Description	Catalog Number	
Clear bubble plate, silicone rubber for use with all general purpose AC toggle and PresSwitch [®] switches. Fits both FS/FD and standard boxes.	HBL1795	
Cast aluminum lift cover plate with fiber shield. For standard toggle and PresSwitch [®] . Fits only FS/FD boxes.	HBL7420	

Weatherproof Plates

Weatherproof Plates		
Description	Catalog Number	
Gray neoprene PresSwitch [®] plate. Fits FS/FD and standard boxes.	HBL1750	
Same as above except yellow.	HBL17CM50	
Gray neoprene PresSwitch [®] plate with 125V red pilot light. Fits only FS/FD boxes.	HBL1785	
Same as above except yellow.	HBL17CM85	

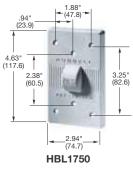
Note: * Not UL Listed or CSA Certified.

Each locking wallplate is supplied with two keys.

+ Two devices per package.

See Section U for more information on safety lockout devices. See Section K for full line of wallplates.





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HBL96061 Shown with wallplate and switch



HSLDPK2



HBL1795



Switches Accessories



Nylon and Metal Wallplates





Standard Size, Smooth Nylon, Toggle Switch Plates

	· · · · J · · · · J · · · · · · · · · ·			
Color	Catalog Number			
Almond	NP1AL	NP2AL	NP3AL	
Black	NP1BK	NP2BK	NP3BK	
Brown	NP1	NP2	NP3	
Gray	NP1GY	NP2GY	NP3GY	
lvory	NP1I	NP2I	NP3I	
Office White	NP10W	NP2OW	NP3OW	
Red	NP1R	NP2R	NP3R	
White	NP1W	NP2W	NP3W	

Standard Size, Smooth Metal, Toggle Switch Plates

Color	Catalog Number			
Aluminum	SA1	SA2	0	
Brass	SB1	SB2	SBP3*	
Stainless Steel, 302/304	SS1	SS2	SS3	
Stainless Steel, 430	SS1L	SS2L	SS3L	





Standard Size, Smooth Nylon, Style Line® Switch Plates

Color	Catalog Number			
Almond	NP26AL	NP262AL	NP263AL	
Black	NP26BK	NP262BK	NP263BK	
Brown	NP26	NP262	NP263	
Gray	NP26GY	NP262GY	NP263GY	
lvory	NP26I	NP262I	NP263I	
Office White	NP26OW	NP262OW	NP263OW	
Red	NP26R	NP262R	NP263R	
White	NP26W	NP262W	NP263W	

Standard Size, Smooth Metal, Style Line® Switch Plates

Catalog Number			
0	0	0	
SB26	SB262	0	
SS26	SS262	SS263	
SS26L	SS262L	_	
	© SB26 SS26	Image: Optimized state Image: Optized state Image: Optized state <td>Image: Optimized state Image: Optized state Image: Optized state</td>	Image: Optimized state Image: Optized state Image: Optized state

Note: See Section K for full line of wallplates.

① Available as a custom metal wallplate. See Section K for more information.



^{*} Brass plated.

SP, DP, 3-Way, 4-Way

Specifications

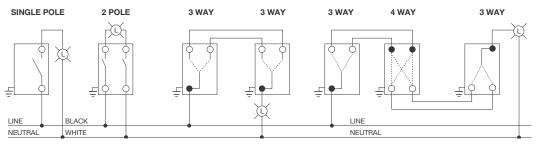
Listings	Component	Material	
UL Listed	Base	Thermoset, Color Coded by Amperage	
CSA Certified	Тор	Thermoset, Gray	
Verified to Fed. Spec. W-S-896,	Toggle	Nylon	
SP, DP, 3-way and 4-way	Terminals	Brass	
	Terminal Screws	Brass	
	Mounting Bridge	Nickel Plated Steel	
	Contacts	Silver Alloy	
	Moveable Contact Arm	Brass	
	Rocker	Elastomer	
	Ground Terminal	Nickel-Plated Steel	
	Ground Screw	Brass	
	Automatic Grounding Clip	Stainless Steel	
Electrical Dielectric Voltage Max. Working Voltage Overload	Withstands 1500V AC minimum for 1 minute. 277V AC. Minimum 4.8 times rated current for 100 cycles.		
Temperature Rise	30°C maximum at rated currer	nt.	
Max. Continuous Current	15A, 20A, 30A.		
	50,000 cycles min., tungsten filament		
Endurance			
Endurance	lamp load Fed. Spec. #WS896	, SP, DP, 3-way and 4-way.	
Endurance Mechanical	lamp load Fed. Spec. #WS896	, SP, DP, 3-way and 4-way.	
		x. solid and stranded copper wire only.	
Mechanical Terminal Accommodations			
Mechanical			
Mechanical Terminal Accommodations Environmental	#14 AWG min #10 AWG ma		



Switches Toggle Switch Wiring Diagrams



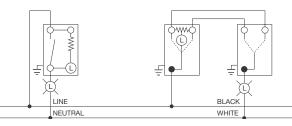
Standard Toggle Type Switches



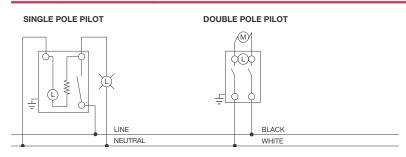
Illuminated Switches (light on with load off)

SINGLE POLE LIGHTED

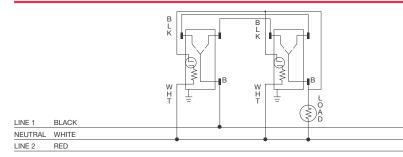
3 WAY LIGHTED



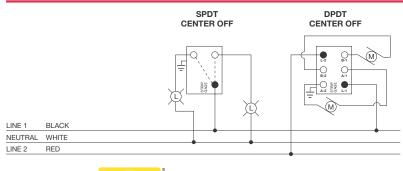
Pilot Light Switches (light on with load on)



Three Way Pilot Switches



Three Position Switches, Momentary and Maintained





Switches Certification Chart

UL, CSA, and Fed. Spec. Listing Data

Catalog Number	WS896 Listed	UL Listed UL20	CSA Certified	Catalog Number	WS896 Listed	UL Listed UL20	CSA Certified	
1201	Yes	Yes	Yes	HBL1224	Yes	Yes	Yes	
1203	Yes	Yes	Yes	HBL1221L	Yes	Yes	Yes	
1221	Yes	Yes	Yes	HBL1222L	Yes	Yes	Yes	
1222	Yes	Yes	Yes	HBL1223L	Yes	Yes	Yes	
1223	Yes	Yes	Yes	HBL1224L	Yes	Yes	Yes	
1224	Yes	Yes	Yes	HBL1221IL	Yes	Yes	Yes	
1221PW	Yes	Yes	Yes	HBL1223IL	Yes	Yes	Yes	
1222PW	Yes	Yes	Yes	HBL1221PL	Yes	Yes	Yes	
1223PW	Yes	Yes	Yes	HBL1222PL	Yes	Yes	Yes	
1224PW	Yes	Yes	Yes	HBL1223PL	Yes	Yes	Yes	
CS115	Yes	Yes	Yes	HBL1221RKL	No	Yes	Yes	
CS315	Yes	Yes	Yes	HBL1222RKL	No	Yes	Yes	
CS120	Yes	Yes	Yes	HBL1223RKL	No	Yes	Yes	
CS320	Yes	Yes	Yes	HBL1224RKL	No	Yes	Yes	
CSB115	Yes	Yes	Yes	HBL1259I	No	No	No	
CSB215	Yes	Yes	Yes	HBL1281	No	Yes	Yes	
CSB215 CSB315	Yes	Yes	Yes	HBL1281	No	Yes	Yes	
CSB415	Yes	Yes	Yes	HBL1282	No	No	No	
CSB120	Yes	Yes	Yes	HBL1203	No	No	No	
CSB120 CSB220	Yes	Yes	Yes	HBL1287I	No	Yes	Yes	
CSB320	Yes	Yes	Yes	HBL1288I	No	No	No	
CSB420	Yes	Yes	Yes	HBL1281MO	No	No	No	
CSL115	Yes	Yes	Yes	HBL1281MC	No	No	No	
CSL215	Yes	Yes	Yes	HBL1297	No	Yes	Yes	
CSL315	Yes	Yes	Yes	HBL1298	No	No	No	
CSL415	Yes	Yes	Yes	HBL1381	No	Yes	Yes	
CSL120	Yes	Yes	Yes	HBL1382	No	Yes	Yes	
CSL220	Yes	Yes	Yes	HBL1385	No	Yes	Yes	
CSL320	Yes	Yes	Yes	HBL1386	No	Yes	Yes	
CSL420	Yes	Yes	Yes	HBL1386L	No	Yes	Yes	
DS115	No	Yes	Yes	HBL1388	No	Yes	Yes	
DS315	No	Yes	Yes	HBL1556	No	Yes	Yes	
DS120	No	Yes	Yes	HBL1557	No	Yes	Yes	
DS220	No	Yes	Yes	HBL1556L	No	Yes	Yes	
DS320	No	Yes	Yes	HBL1557L	No	Yes	Yes	
DS420	No	Yes	Yes	HBL3031	Yes	Yes	Yes	
DS120IL	No	Yes	Yes	HBL3032	Yes	Yes	Yes	
DS320IL	No	Yes	Yes	HBL3033	Yes	Yes	Yes	
DS120PL	No	Yes	Yes	HBL3031PL	Yes	Yes	Yes	
DSL115	Yes	Yes	Yes	HBL3031PL	Yes	Yes	Yes	
DSL215	Yes	Yes	Yes	HBL3032PL	Yes	Yes	Yes	
DSL315	Yes	Yes	Yes	SNAP1201	Yes	Yes	Yes	
DSL415	Yes	Yes	Yes	SNAP1201IL	Yes	Yes	Yes	
DSL120	Yes	Yes	Yes	SNAP1201PL	Yes	Yes	Yes	
DSL220	Yes	Yes	Yes	SNAP1203	Yes	Yes	Yes	
DSL220	Yes	Yes	Yes	SNAP1203IL	Yes	Yes	Yes	
DSL320 DSL420	Yes	Yes	Yes	SNAP 12031L SNAP1221	Yes	Yes	Yes	
HBL1201	Yes	Yes	Yes	SNAP1221	Yes	Yes	Yes	
HBL1201	Yes	Yes	Yes	SNAP12211L SNAP1221PL	Yes	Yes	Yes	
HBL1202	Yes	Yes	Yes	SNAP1221PL SNAP1223	Yes	Yes	Yes	
HBL1204	Yes	Yes	Yes	SNAP1223	Yes	Yes	Yes	
HBL1201IL	Yes	Yes	Yes	SNAP1223IL	Yes	Yes	Yes	
HBL1203IL	Yes	Yes	Yes	SNAP2101	Yes	Yes	Yes	
HBL1201PL	Yes	Yes	Yes	SNAP2101IL	Yes	Yes	Yes	
HBL1203PL	Yes	Yes	Yes	SNAP2101PL	Yes	Yes	Yes	
HBL1201L	Yes	Yes	Yes	SNAP2103	Yes	Yes	Yes	
HBL1202L	Yes	Yes	Yes	SNAP2103IL	Yes	Yes	Yes	
HBL1203L	Yes	Yes	Yes	SNAP2121	Yes	Yes	Yes	
HBL1204L	Yes	Yes	Yes	SNAP2121IL	Yes	Yes	Yes	
HBL1221	Yes	Yes	Yes	SNAP2121PL	Yes	Yes	Yes	
HBL1222	Yes	Yes	Yes	SNAP2123	Yes	Yes	Yes	
HBL1223	Yes	Yes	Yes	SNAP2123IL	Yes	Yes	Yes	

Note: Catalog numbers above represent all colors and variations.



Switches 600 to 2000 Watts, 120 Volts AC 60Hz

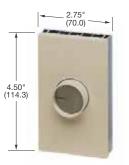
Slide and Rotary Control Dimmers



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

Architectural	Grade,	Incandescent	Preset	Slide	Control	Dimmers

Description	Color	Rating	Catalog Number
Single pole/three way - preset.	White	600W, 120V AC, 60Hz	AS63
Single pole/three way - preset.	White	1000W, 120V AC, 60Hz	AS103
Single pole/three way - preset.	White	1500W, 120V AC, 60Hz	AS153
Single pole/three way - preset.	White	2000W, 120V AC, 60Hz	AS203

Accessories

Description	Color	Catalog Number
Small plate kit for 600W and 1000W models. Includes non-metallic trimplate and slide.	lvory White	AS1I AS1W
Large plate kit for 1500W and 2000W models. Includes non-metallic trimplate and slide.	lvory White	AS2I AS2W

Note: The dimmers listed above can be wired for single pole or three way applications. See page C-21 for ganging and derating.

Architoctural	Grada	Incondocoont	Poton	Control	Dimmore
Architectural	Grade,	Incandescent	Rotary	Control	Dimmers

Description	Color	Rating	Catalog Number
Single pole - push on/off. Three way - push on/off.	Beige Beige	600W, 120V AC, 60Hz	AR61 AR63
Single pole - push on/off. Three way - push on/off.	Beige Beige	1000W, 120V AC, 60Hz	AR101 AR103
Single pole, rotary on/off.	Beige	1500W, 120V AC, 60Hz	AR151
Single pole, rotary on/off.	Beige	2000W, 120V AC, 60Hz	AR201

Accessories		
Description	Color	Catalog Number
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-21 for ganging and derating.





Switches **Dimmer Ganging and Derating**

One small dimmer in this box.

Single-Gang

Gangable Switchbox

3/4 Space (Use Close Nipple) Switches

Architectural Grade Slide and Rotary Series Number of Switchboxes Required with Dimmer Side sections Intact

		Nu	Number of Small Controls (600W and 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 and 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
			Number of Gangs Required					

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 ¾ in. apart from the other switchbox(es). A ¾ in. close nipple is recommended as a spacer between the switchboxes.

Number of Switchboxes Required with Side sections Removed

		Number of Small Controls (600W and 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 and 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	
		Number of Gangs Required							

Note: When removing side sections, remove only inner side sections. Do not remove side sections on outer ends of gang. The same installation rules apply to rotary dimmers (not shown).

Derating Chart

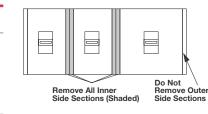
<u> </u>		
No side sections removed	One side section removed	Both side sections removed
600W	600W	500W
1000W	900W	700W
1500W	1250W	1000W
2000W	1800W	1500W

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 in. 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	800W	650W
5A fan speed	4A fan speed	3A fan speed



Example of four-gang installation

Three small dimmers in this box

Four-Gang Gangable Switchbox



Switches Heavy Duty Panel Mount Panel Mount and Bat Handle Switches





HBL11



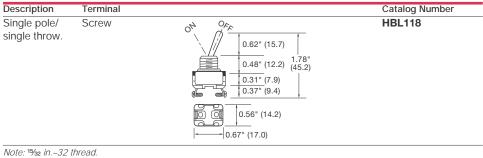
HBL123SP

Description	Terminal	•	Catalog Number
Single pole/ single throw.	Screw Spade	.61" (15.5)	HBL11 HBL11SP
Single pole/ single throw momentary.	Screw Spade	Cash and the second sec	HBL11M HBL11SPM
Single pole/ double throw.	Screw Spade	1.13° (28.7) → Screw Terminal Shown	HBL12 HBL12SP
Single pole/ double throw 3-position center off.	Screw Spade	C(28,7) Screw Terminal Shown	HBL123 HBL123SP
Single pole/ double throw 3-position center off momentary.	Screw Spade	(28.7) Screw Terminal Shown	HBL123MM HBL123SPMM

10A 250V AC 20A 125V AC Horsepower Rated ¾ HP, 125-250V AC

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

10A 240V AC 15A 120V AC



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

Description	Terminal		Catalog Number
Single pole/ single throw.	#18 Std. AWG Copper Wire Leads 105° C Black.	OFF (14.2) 15/32-32 THRD 0.56" (14.2) 15/32-32 THRD 0.25" Keyway .080 x .035 .098" - 0.98" - 0.50" (24.9) .050" (12.7) .050" .050" (12.7) .050" .050" (12.7) .050" (12.7)	HBL11WL

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

Specifications	
mpact Resistant Thermoplastic Body.	
ine 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 in. (6.3) Male Tab Spade Type or 6/32 Screw Type.	
JL Recognized.	



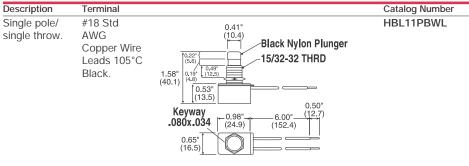
Switches Heavy Duty Panel Mount Panel Mount and Bat Handle Switches

10A 250V AC 20A 125V AC Horsepower Rated 11/2 HP, 125-250V AC Catalog Number Description Terminal Double pole/ Screw HBL21 .75" (19.1) .47" (11.9) .80" (20.3) single throw. HBL21SP Spade 6 6 1.30" (33.0) Þ Ē ЛК OFF Double pole/ Screw HBL22 .75" (19.1) double throw. .80" (20.3) HBL22SP Spade R P î Ø 1.30" (33.0) È 0 Double pole/ **HBL223** Screw .75" (19.1) double throw + .80" (20.3) HBL223SP Spade ON STP/ T 3 position 1.30" (33.0) 4000 OFF 6 center off. RA 1 013 Double pole/ Screw HBL223MM .75" (19.1) double throw Spade .80" (20.3) HBL223SPMM 3 position fT 1.30" (33.0) ģ center off momentary. L S Silicone SSB1 rubber boot.

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

See Section W, Marine Electrical Products for information on 12V DC tapered handle switches.

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



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

Switches





HBL223





HBL11PBWL

Dimensions in Inches (mm)



Switches Pendant Pushbutton Stations

PBS and CPB2 Series



1.06" (26.9) 9.13" (231.9) 2.38" (60.5)

CPB2 Series Compact Pendant Stations, Two Button, NEMA 4X Description Catalog Number

Single-speed normally open-normally closed	CPB20
without mechanical interlock.	
Single-speed with mechanical interlock between pushbuttons.	CPB21
Two-speed with mechanical interlock between pushbuttons.	CPB22
Note: Included with product: nylon cord grip and sealing washer (must be instal	led to achieve NEMA 4X rating).

Indication label pack. Cord dia. range .375–625 in (9.5–15.9) Ambient temperatures: 25°F to 140°F (32°C to 60°C).

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

Contact Ratings, CPB2 Series

e officier fraungo, er		
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

IP44

IP55

Description	Catalog Number
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 Number
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

Note: 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	
DC	125V	1.1A	
IND	250V	.55A	



3.25" (82.6)

0.88"-(22.4)

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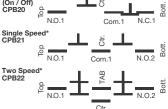
30mm K.O.



3.50" (88.9)

Wiring Diagram CPB2 Series Momentary (On / Off) CPB20 ŧ.

CPB21



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



PBS6

Cable Entrance Threaded 1" (25.4) NPT I.D. 1.125" (28.6) O.D.

C ſ

Switches PBS Series Pendant Pushbutton Station 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 Number Single speed insert momentary N.O. and N.C. PG2 On-Off insert (no mechanical interlock). PG6 Momentary, start-stop, reset-stop. 3 speed insert, momentary. Used to a maximum of 3 speed points. MS2 5 speed insert, momentary. Used to a maximum of 5 speed points. MS5 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.

Conversion Inserts

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

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

Accessories

Description	Catalog Number
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*
Note: * Each pendant station can accommodate one of the pilot light in the 1.20 in. (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 Number			
Kellems grip.	.750"875" (19-22.2)	07401023			
Kellems grip.	.875"-1.00" (22.2-25.4)	07401025			





MS5



TB2





PBSLP

PBSBC

PBSPL1





Switches **30 Ampere, 600 Volts AC Manual Motor Controllers** Industrial – Extra Heavy Duty AC Manual Motor Controllers,



Industrial – Extra Heavy Duty AC Manual Motor Controller Double and Three Pole (Without Overload Protection) "Suitable as Motor Disconnect"

> (4) #10-32 TAP

30A 600V AC Manual Motor Controllers,

Description	Catalog Number
30A, double pole, single throw, AC manual motor controller, black nylon handle, side and back wired.	HBL7832D
30A, double pole, single throw, AC manual motor controller, black nylon handle, short toggle.	HBL7832DS
30A, double pole, single throw, AC manual motor controller. 50 piece bulk pack.	HBL7832DX
HBL7832D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame.	HBL1392D
HBL7832D in HBL1370 metal Type 1 enclosure.	HBL1372D
HBL7832D in NEMA 3R non-metallic enclosure.	HBL13R22D
HBL7832D in HBL13R90 metal Type 3R enclosure.	HBL13R92D
HBL7832D in NEMA 3R flip-lid enclosure. Three Pole	HBL13R12D
Three Pole	Catalog Number
Three Pole Description 30A, three pole, single throw, AC manual motor controller,	
Three Pole	Catalog Number
Three Pole Description 30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired. 30A, three pole, single throw, AC manual motor controller, black nylon handle, short toggle. HBL7810D in HBL1390 Type 1 enclosure with non-metallic cover,	Catalog Number HBL7810D
Three Pole Description 30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired. 30A, three pole, single throw, AC manual motor controller, black nylon handle, short toggle. HBL7810D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame.	Catalog Number HBL7810D HBL7810DS
Three Pole Description 30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired. 30A, three pole, single throw, AC manual motor controller, black nylon handle, short toggle. HBL7810D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame. HBL7810D in HBL1370 metal Type 1 enclosure.	Catalog Number HBL7810D HBL7810DS HBL1389D
Three Pole Description 30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired. 30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired. 30A, three pole, single throw, AC manual motor controller, black nylon handle, short toggle. HBL7810D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame. HBL7810D in HBL1370 metal Type 1 enclosure. HBL7810D in NEMA 3R non-metallic enclosure.	Catalog Number HBL7810D HBL7810DS HBL1389D HBL1379D
Three Pole Description 30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired. 30A, three pole, single throw, AC manual motor controller, black nylon handle, short toggle. HBL7810D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame. HBL7810D in HBL1370 metal Type 1 enclosure. HBL7810D in NEMA 3R non-metallic enclosure. HBL7810D in HBL13R90 metal Type 3R enclosure.	Catalog Number HBL7810D HBL7810DS HBL1389D HBL1379D HBL13R23D
Three Pole Description 30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired. 30A, three pole, single throw, AC manual motor controller,	Catalog Number HBL7810D HBL7810DS HBL1389D HBL1379D HBL13R23D HBL13R89D

Motor Rating

in otor i taning						
Product	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	
40A Double Pole	2HP	5HP	10HP	15HP	1	
40A Three Pole	3HP	71∕₂HP	15HP	20HP	3	
50A Double Pole	2HP	5HP	10HP	15HP	1	
50A Three Pole	3HP	71∕₂HP	15HP	25HP	3	
60A Double Pole	-	10HP	15HP	20HP	1	
60A Three Pole	-	10HP	25HP	30HP	3	
85A Double Pole	-	10HP	15HP	20HP	1	
85A Three Pole	-	10HP	25HP	40HP	3	







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3.28° (83.3) 3.78° (96.0) HBL7810D (2).20 Dia. Mtg. Holes (100.8) 4.52° (114.8)

2.25" (57.1)

HBL1389D

2.62" (66.5)



HBL13R13D



30 Ampere, 600 Volts AC Manual Motor Controllers

HBL1379D



Switches 40, 50, 60 and 85 Ampere, 600 Volts AC Manual Motor Controllers Industrial – Heavy Duty AC Manual Motor Controllers,



Industrial – Heavy Duty AC Manual Motor Controllers, Double and Three Pole (Without Overload Protection) "Suitable as Motor Disconnect"

40A 600V AC Manual Motor Controllers

Description	Catalog Number
40A, double pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7842D
40A, three pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7843D
Note: Catalog numbers HBL7842D and HBL7843D dimensions are the same as F	BL7810D shown on page C-26.

50A 600V AC Manual Motor Controllers

Description	Catalog Number
50A, double pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7852D
50A, three pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7853D

Note: Catalog numbers HBL7852D and HBL7853D dimensions are the same as HBL7810D shown on page C-26.

60A 600V AC Manual Motor Controllers

Description	Catalog Number
60A, double pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7862D
Same as HBL7862D except front wired.	HBL7862FWD
HBL7862FWD in Type 3R enclosure.	HBL16R92D
60A, three pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7863D
Same as HBL7863D except front wired.	HBL7863FWD
HBL7863FWD in a Type 3R enclosure.	HBL16R93D
60A, three pole, rotary controller in NEMA 4X stainless steel enclosure.	HBL16S63D
60A, three pole, rotary controller in NEMA 4X non-metallic enclosure.	HBL16X63D
Note: See page C-29 for technical data.	

85A 600V AC Manual Motor Controllers

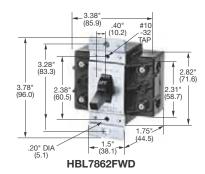
Description	Catalog Number
85A, double pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7882D
85A, three pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7883D

Motor Controller Accessories

Description	Catalog Number
Finger Guards, fit 30, 40 and 50 amp controllers.	HBLFG30
Auxiliary Contacts, for use in rotary switches only.	HBLAUX

IP44 SUITABILITY









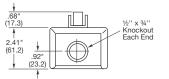
HBL16S63D



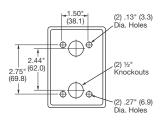
Switches 30 and 60 Ampere Enclosures



<u>IP44*</u>



END VIEW HBL1370/HBL1372D/HBL1379D



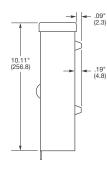
BACK VIEW HBL1370/HBL1372D/HBL1379D

00	A	En el s	
30	Amp	Encio	osures

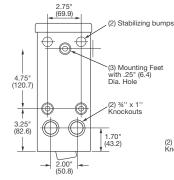
Description		Catalog Numbe
	with non-metallic cover (without switch n top, bottom and back of steel frame.	
	with metallic cover (without switch) n top, bottom and back of steel frame.	HBL1370
Type 3R metal enclosure without	switch.	HBL13R90
* Enclosure rating. See page C-29 for technical dat.	2.75* (69.9) 2.04* (51.8) (3) Mounting Feet with .25* (6.4) Dia. Hole (3) Mounting Feet (3) Mounting Feet (6.4) Dia. Hole (6.2) (6.2) (6.2) (6.3) (6.3) (6.3) (6.4) (6.4) (6.4) (6.4) (6.4) (6.2) (6.2) (6.5) (6.4) (6.1) (6.2) (6.2) (6.2) (6.2) (6.3) (6.3) (6.3) (6.4) (6.4) (6.4) (6.4) (6.4) (6.4) (6.4) (6.4) (6.4) (6.4) (6.5) (6.4) (6.4) (6.4) (6.5) (6.4) (6.4) (6.4) (6.4) (6.4) (6.4) (6.5) (6.	-4.40° (111.8) 3.00° (76.2) 3.30° (83.8)
SIDE VIEW	BACK VIEW	END VIEW

60 Amp Enclosures

Description	Catalog Number
Type 3R metal enclosure without switch.	HBL16R90
<i>Note: 60 amp manual motor controllers are suitable for use with enclosure HBL16R90.</i> * <i>Enclosure rating.</i>	

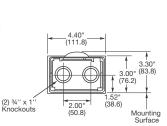


SIDE VIEW HBL16R90 / HBL16R92D HBL16R93D



BACK VIEW

HBL16R90 / HBL16R92D HBL16R93D



END VIEW HBL16R90 / HBL16R92D HBL16R93D

Switches Technical Information Heavy Duty Manual Motor Controllers



Switches

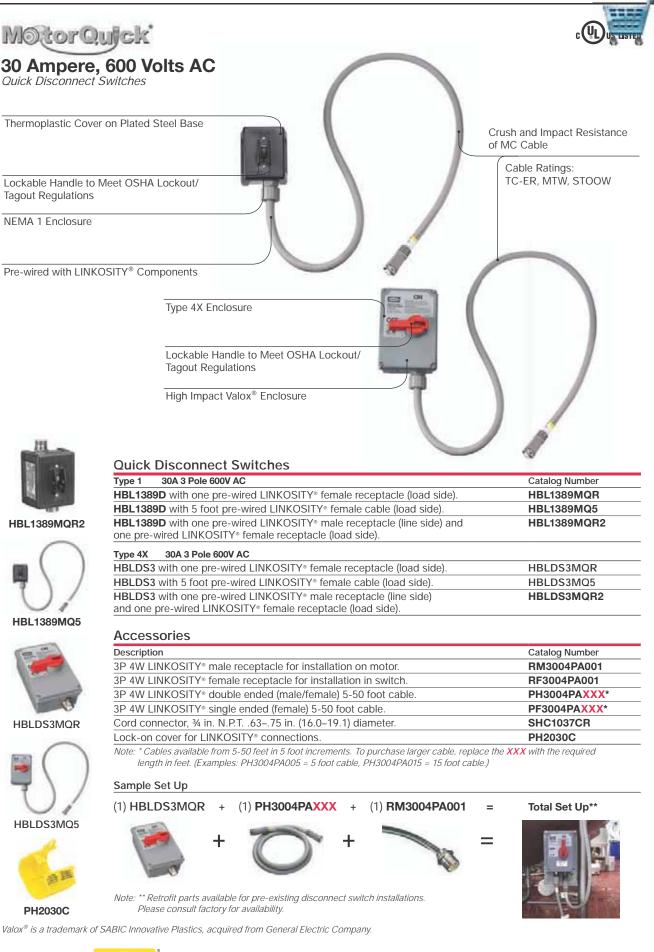
30, 40, 50, 60 and 85A, Double Pole and Three Pole

Specifications

Base Cover Yoke Toggle Terminal Screws Contact Blades Contacts Brush Lifter 2,200V AC max for 1 min 6,000 cycles at rated swit 600V AC RMS. 5.000 and 10.000 RMS w	
6,000 cycles at rated swit 600V AC RMS.	
6,000 cycles at rated swit 600V AC RMS.	
6,000 cycles at rated swit 600V AC RMS.	
Class "J" fuses as marker Min. continuous: -40°C w 10,000 Cycles. 20 inch pounds. 25 inch pounds.	
40A #14 AWG min #8 / 50A #14 AWG min #8 / 60A #14 AWG min #4 /	0 AWG max. solid and stranded copper wire only. AWG max. solid and stranded copper wire only.* AWG max. solid and stranded copper wire only.* AWG max. solid and stranded copper wire only. AWG max. solid and stranded copper wire only.
40A controller - #8 AWG 50A controller - #8 AWG 60A controller - #6 AWG	75°C*. 75°C; #4 AWG 60°C.
	Min. continuous: -40°C v 10,000 Cycles. 20 inch pounds. 25 inch pounds. 25 inch pounds. 30A #14 AWG min #10 40A #14 AWG min #8 50A #14 AWG min #4 85A #14 AWG min #4 85A #14 AWG min #4 30A controller - #10 AWG 50A controller - #8 AWG

Note: * Use listed/certified ring terminal.





C-30



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Dimensions in Inches (mm)

MotorQujck'



30 Ampere, 600 Volts AC *Quick Disconnect Switches*

Dimensions	Type 1		Туре 4	X	
Male LINKOSITY Receptacle ~ (MQR2 Option) 3.40° (86.36) ↓ (22.35) Fen LINKC Rece HP Rating 120V AC 3 240V AC 7.5 480V AC 15 600V AC 20	4.52" (114.81)	B 5.12 (105) C 4.12 (105) D 6.62 (168) E 7.62 (194) F 8.50 (216) G 4.12 (105)	4.75 (121) 8.00 (203) 9.95 (253) 11.00 (279) 5.94 (151) Male LINKOSITY Receptacle, (MQR2 Option Fe LINKOS	A B C O O FF C O O FF C O C FF C O C FF C O C FF C O C C C C	
Specifications	Туре 1		Туре 4	x	
Electrical Performance Dielectric Voltage Electrical Life Max. Working Voltage Short Circuit Withstand Rating as Motor Disconnect Short Circuit Withstand Rating as Motor Controller	2,200V AC minimum fr 6,000 cycles with load 600V AC RMS. 10,000 RMS symmetri with 60A max J fuses. 10,000 RMS symmetri with 125A RK5 fuses.	d. ical amps when testec ical amps when testec	6,000 cy 600V AC 10,000 R	C minimum for 1 m rcles with load. RMS. MS symmetrical am IS symmetrical amp	ps.
Mechanical Mechanical Life Terminal Accommodations Terminal Torque Impact Resistance	10,000 minimum cycl Amps AWG N 30 #14 30 20 inch		10,000 n Amps 30 30 UL746C	ninimum cycles. AWG Min. #14 20 inch pound	AWG Max. #10 ds
Environmental Flammability Operating Temp.	UL94HB/V-0. Max. continuous Min. continuous w/o i	60°C impact -40°C			ion.
Listings UL 508	Industrial Control Equip	pment File #E36355	Industria	Control Equipment	File #E36355

LINKOSITY[®] Connection

Certifications		Materials	
Connecting Components	Listed to UL 2238 and UL 50.	Connectivity System Components	
		Contact Carrier	Nylon 6/6, white.
Electrical Performance		Contact Materials	Pins - brass.
Voltage	Up to 600V AC.		Sockets - leaded nickel copper
Amperage	Up to 30A.		w/ stainless steel sleeve.
Environmental		Contact Plating	Hard gold over palladium/nickel.
Connectivity System Con	nponents	Overmold Material	Glass filled polyurethane, gray.
Moisture Resistance	UL Type 4, 4X, 12 and 13.	Coupling Hardware	Nickel plated brass.
Ingress Protection	IP67 Suitability.	Cable (16 AWG and Up)	UL 600V Type TC-ER, MTW 90°C or
Flammability	UL94HB cables /		STOOW 600V 105°C.
5	UL94V-0 receptacles.		



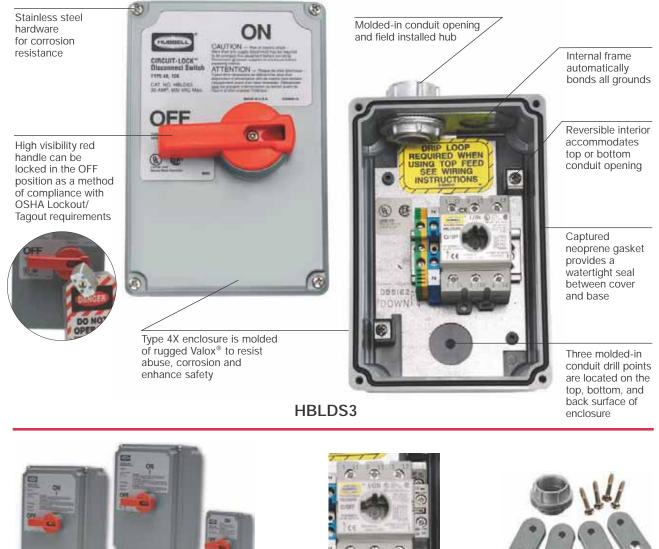
Switched Enclosures Circuit-Lock[®] Unfused Disconnect Switches "Suitable as Motor Disconnect"



Features and Benefits

Circuit-Lock® 30, 60, and 100 Ampere Unfused Disconnect Switches

NEC section 430.102(B) requires each motor controller to have a disconnect within line of sight from the motor and driven equipment. NEC section 430.109(A)(6) recognizes that a manual motor controller and disconnect can be the same unit, provided it has been tested for this purpose. Hubbell's Circuit-Lock® Unfused Disconnect Switches are UL listed as a manual motor controller and also "suitable as a motor disconnect" and meet these code requirements. 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 (Wash down, 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.



Conduit hub and adjustable mounting feet are supplied for ease of installation.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



Auxiliary contacts are available for control circuit applications including the ON/OFF control of pilot lights or signal for programmable controllers.



Circuit-Lock® Unfused Disconnect Switches are

available in 30, 60 and 100 Amp, 600V AC ratings.

www.hubbell-wiring.com

Switched Enclosures Circuit-Lock[®] Unfused Disconnect Switches "Suitable as Motor Disconnect"

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

Switched Enclosures

IP66

30, 60 and 100 Amp Unfused Disconnect Switches

<u>, , , , , , , , , , , , , , , , , , , </u>	
Description	Catalog Number
30A Circuit-Lock disconnect switch.	HBLDS3
30A Circuit-Lock disconnect switch for use with variable frequency drives.	$HBLDS3VFD^{\Delta}$
30A Circuit-Lock disconnect switch with HBLAC1 aux. contact.	HBLDS3AC
30A Circuit-Lock disconnect switch with HBLAC2 aux. contact.	HBLDS3AC2
30A Circuit-Lock disconnect switch without conduit knockout or conduit fitting.	HBLDS3NK
30A Circuit-Lock disconnect switch with HBLAC1 aux. contact without conduit knockout or conduit fitting.	HBLDS3ACNK
30A Circuit-Lock disconnect switch with 3 aux. contacts, w/o conduit knockouts. Break before main break – 1 set "normally open", 1 set "normally closed". Break after main break – 2 sets "normally open", 1 set "normally closed".	HBLDS33ACNK
60A Circuit-Lock disconnect switch.	HBLDS6
60A Circuit-Lock disconnect switch with HBLAC1 aux. contact.	HBLDS6AC
100A Circuit-Lock disconnect switch.	HBLDS10
100A Circuit-Lock disconnect switch with HBLAC1 aux. contact.	HBLDS10AC

Auxiliary Contacts for 30, 60 and 100 Amp Switch, A600 Pilot Duty

Description	Catalog Number
"Break After Main Break", 1 set of n/o contacts, 1 set of n/c contacts.	HBLAC1*
"Break Before Main Break", 1 set of n/o contacts.	HBLAC2*

Ground Block

Description	Catalog Number
For 30A switches.	HBL30RGB
For 60A and 100A switches.	HBL60100RGB

Neutral Block

Description	Catalog Number
For 30A switches.	HBL30RNB
For 60A switches.	HBL60RNB
For 100A switches.	HBL100RNB

Note: * Not for use with HBLDS33ACNK.

30A Units are supplied with one ¾ in. N.P.T. Raintight conduit fitting. 60A and 100A Units are supplied with two 1¼ in. N.P.T. Raintight conduit fittings. ^A See page C-34 for wiring details.



HBLDS3AC



HBLAC1



HBLAC2



HBL30RGB

HBL30RNB



Switched Enclosures Circuit-Lock[®] Unfused Disconnect Switches "Suitable as Motor Disconnect"



IP66



HBLDS3RC



HBLDS3RS



Replacement Covers

Description	Catalog Number
For 30A switches.	HBLDS3RC
For 60A switches.	HBLDS6RC
For 100A switches.	HBLDS10RC

Replacement Switches

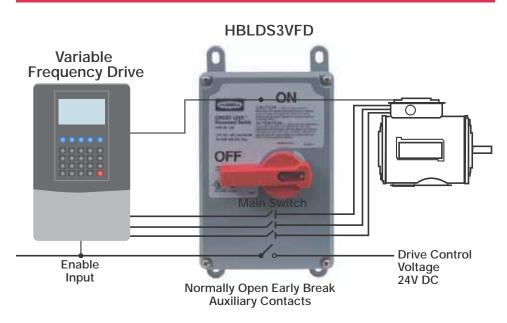
Replacement Switches	
Description	Catalog Number
For 30A switches.	HBLDS3RS
For 60A and 100A switches.	HBLDS60100RS
For HBLDS33ACNK.	HBLDS33ACRS

Replacement Mounting Feet

Description	Catalog Number
For 30A switches.	HBLRFT1 ^Δ
For 60A and 100A switches.	HBLRFT2 ^A

Note: 30A Units are supplied with one ¾ in. N.P.T. raintight conduit fitting. 60A and 100A Units are supplied with two 1¼ in. N.P.T. raintight conduit fittings. kage of 10 feet and 10 screws.

Variable Frequency Drive Diagram



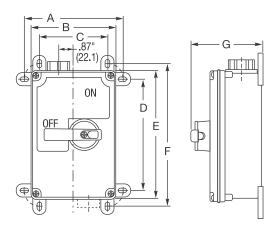
Switched Enclosures



Switched Enclosures Circuit-Lock[®] Unfused Disconnect Switches Dimensions and Specifications

Dimensions

	30A		60A/10	A00
Key	inch	(mm)	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

Voltage	30A	60A	100A	
1Ø 120V AC	1	7.5	7.5	
1Ø 200–240V AC	3	15	15	
1Ø 480V AC	5	30	30	
3Ø 200–240V AC	7.5	30	30	
3Ø 480V AC	15	50	50	
3Ø 600V AC	15	50	50	

Circuit-Lock[®] Unfused Disconnect Switches

Specifications	
Moisture Resistance	Outdoor – Type 4X (Wash down, Corrosion resistant), IP66 suitability;
	Indoor – 30A Type 12K (Dust-tight, Falling Dirt, Noncorrosive Liquids with Knockout).
	60A and 100A Type 12 (Dust-tight, Falling Dirt, Noncorrosive Liquids).
Flammability	UL94-5VA and V0 Classification.
Operating Temperature	Maximum Continuous 67°F (75°C);
	Minimum Continuous -40°F (-40°C) without impact.
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	Suitable for use on a circuit capable of delivering not more than 10,000 RMS
(Motor Disconnect)	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.
Materials	
Part	Material
Base	Valox®
Тор	Valox®
Handle	Valox®
Conduit Hub	Zinc 30A Unfused - ¾ in.; 60/100A Unfused - 1¼ in.
Enclosure Gasket	Neoprene
Shaft (Unfused)	Valox®
Shaft Seal	Molded Neoprene
Frame	Galvanized Steel
Enclosure Screws	Stainless Steel 300 Series

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Switched Enclosures

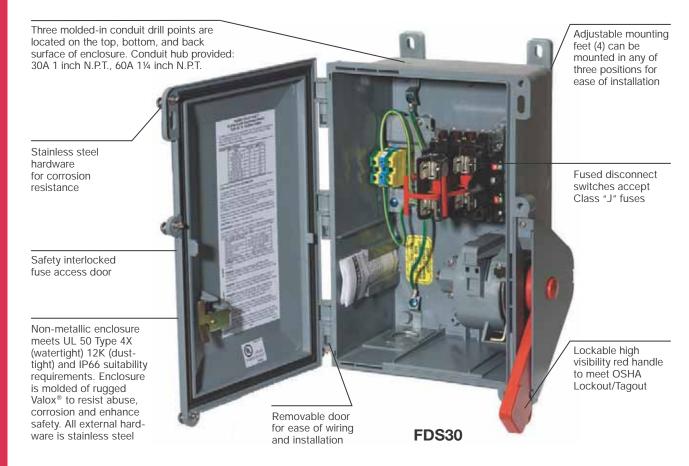
Switched Enclosures Circuit-Lock[®] Fused Disconnect Switches "Suitable as Motor Disconnect"



Features and Benefits

Circuit-Lock® 30 and 60 Ampere Fused Disconnect Switches

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 Wash down, Corrosion resistant). The handle can be locked in the OFF position to comply with OSHA Lockout/Tagout regulations.





Conduit hub and adjustable mounting feet are supplied with each Circuit-Lock Fused Disconnect Switch.



Stainless steel ¼ inch turn door fasteners for quick, easy access to fuses.



Enclosure door can be locked to prevent unauthorized access. Additionally, if the switch is ON, the door cannot be opened.



Compact Fused Disconnect Switch accepts Class "J" fuses. Fuse holders are top mounted for easy access. The switch accepts auxiliary contacts for control circuit applications including the ON/OFF control of remote pilot lights or signal for programmable controllers.

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Wiring Device-Kellems

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Circuit-Lock[®] Fused Disconnect Switches Features and Benefits

Switched Enclosures Circuit-Lock[®] Fused Disconnect Switches "Suitable as Motor Disconnect"

Dimensions

30A Circuit-Lock fused disconnect switch.

60A Circuit-Lock fused disconnect switch.

Auxiliary contact, normally open, A600 pilot duty.

Watertight Closure Plug Kits

Replacement Mounting Feet

[△] Package of 10 feet and 10 screws.

fused disconnect switches.

For 30A Circuit-Lock fused disconnect switch.

For 60A Circuit-Lock fused disconnect switch.

Replacement mounting feet and screws for 30A and 60A

Note: 30A Units supplied with two 1 in. N.P.T. raintight conduit fittings. 60A Units supplied with two 1¼ in. N.P.T. raintight conduit fittings.

Auxiliary contact, normally closed, A600 pilot duty.

Note: *Class "J" fuses not included.

Auxiliary Contacts

Description

Description

Description

Description

30 and 60 Amp Fused Disconnect Switches

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

IP66

Catalog Number

Catalog Number

Catalog Number

Catalog Number

HBLRFT2^A

MICPK30

MICPK60

ACFSNO

ACFSNC

FDS30*

FDS60*







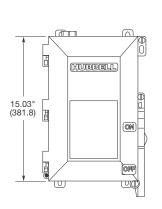
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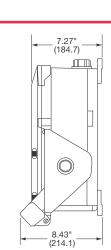


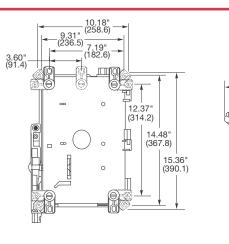
MICPK30

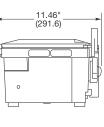


Dimensions









Circuit-Lock[®] Fused Disconnect Switches and Dimensions

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Wiring Device-Kellems

Switched Enclosures Circuit-Lock[®] Fused Disconnect Switches Horsepower Ratings and Specifications



Horsepower Ratings

Catalog Number	Ratings	Volts	Standard HP	Maximum HP*
FDS30	30A	120V AC	0.5	2
	600V AC	208-240V AC	1.5	3
	Max.	3Ø 240V AC	3	7.5
		3Ø 480V AC	5	15
		3Ø 600V AC	7.5	20
		3Ø Y 120/208V AC	3	5
		3Ø Y 277/480V AC	5	15
		3Ø Y 347/600V AC	7.5	20
FDS60	60A	120V AC	1.5	3
	600V AC	208-240V AC	3	7.5
Max.	3Ø 240V AC	7.5	15	
	3Ø 480V AC	15	30	
	3Ø 600V AC	15	40	
		3Ø Y 120/208V AC	7.5	15
		3Ø Y 277/480V AC	15	30
		3Ø Y 347/600V AC	15	40

Note: * Requires time delay fuses.

30A Units supplied with two 1 in. N.P.T. raintight conduit fittings.

60A Units supplied with two 1¼ in. N.P.T. raintight conduit fittings.

Fuse and 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.
0	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.

Note: Replacement fused switch must be the same type Hubbell switch as original and have equal or greater short circuit current withstand rating.

Circuit-Lock[®] Fused Disconnect Switch

Specifications	
Moisture Resistance	Outdoor – Type 4X (Wash down, Corrosion resistant), IP66 suitability; Indoor – Type 12 (Dust-tight, Falling Dirt, Noncorrosive Liguids).
Flammability	UL94-5VA and V0 Classification.
Operating Temperature	Maximum Continuous 75°C;
	Minimum Continuous -40°C without impact.
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.

Materials	
Part	Material
Base	Valox®
Door	Valox®
Handle	Valox®
Conduit Hub	Zinc, 30A Fused – 1 in., 60A Fused – 1¼ in.
Enclosure Gasket	Neoprene
Shaft	Brass
Shaft Seal	Neoprene
Frame	Galvanized Steel
Ground Plate	Galvanized Steel
Enclosure Screws	Stainless Steel 300 Series

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Horsepower Ratings and Specifications

