



Section C Switches

Switched Enclosures

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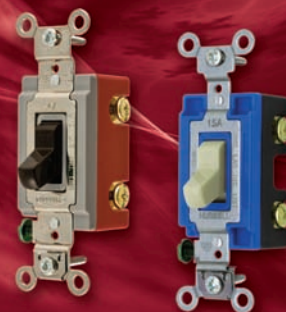
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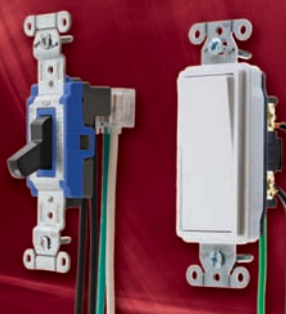
Switched Enclosures

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Toggle Switches



SNAPConnect® and Pre-Wired/Leaded Switches



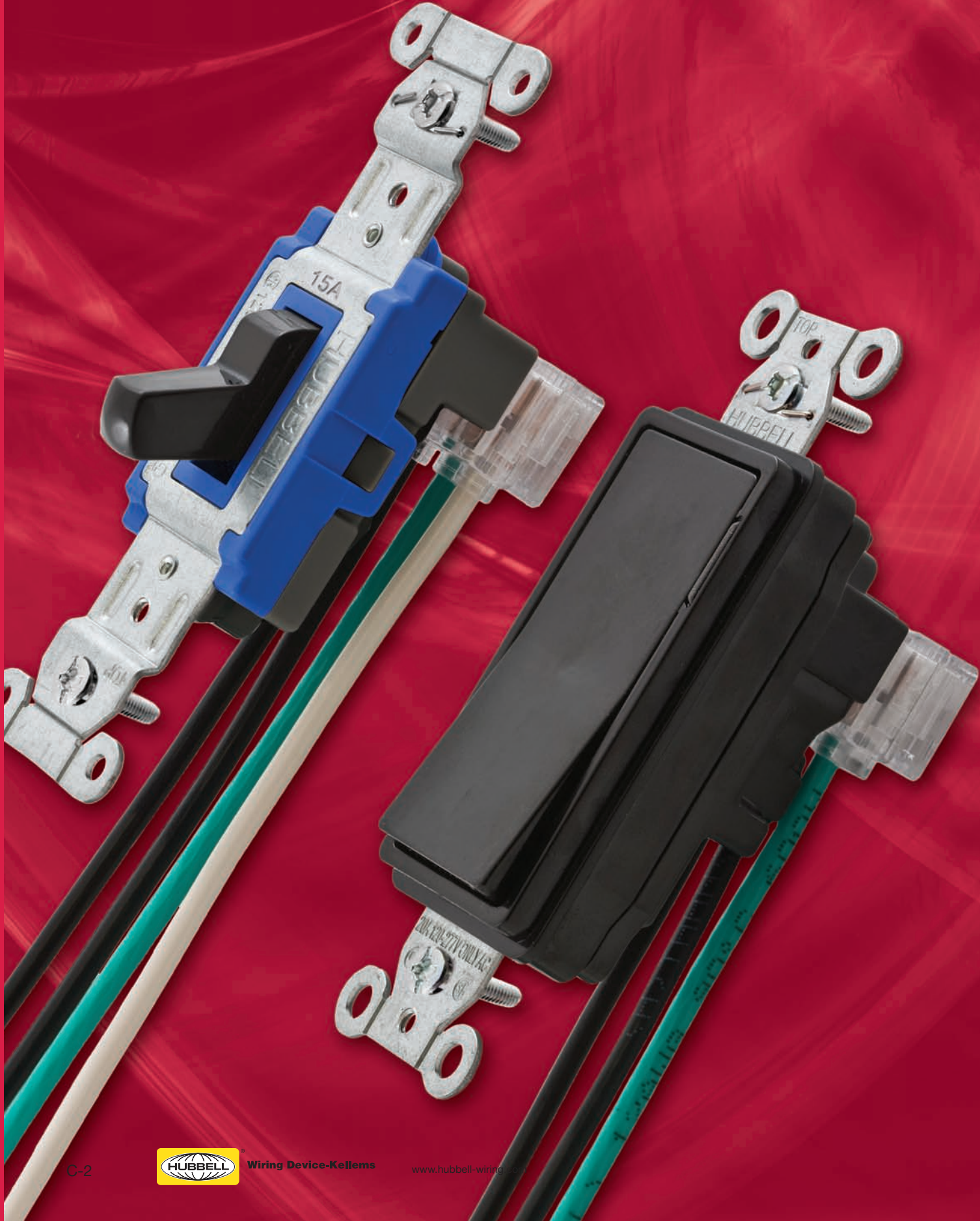
Manual Motor Controllers



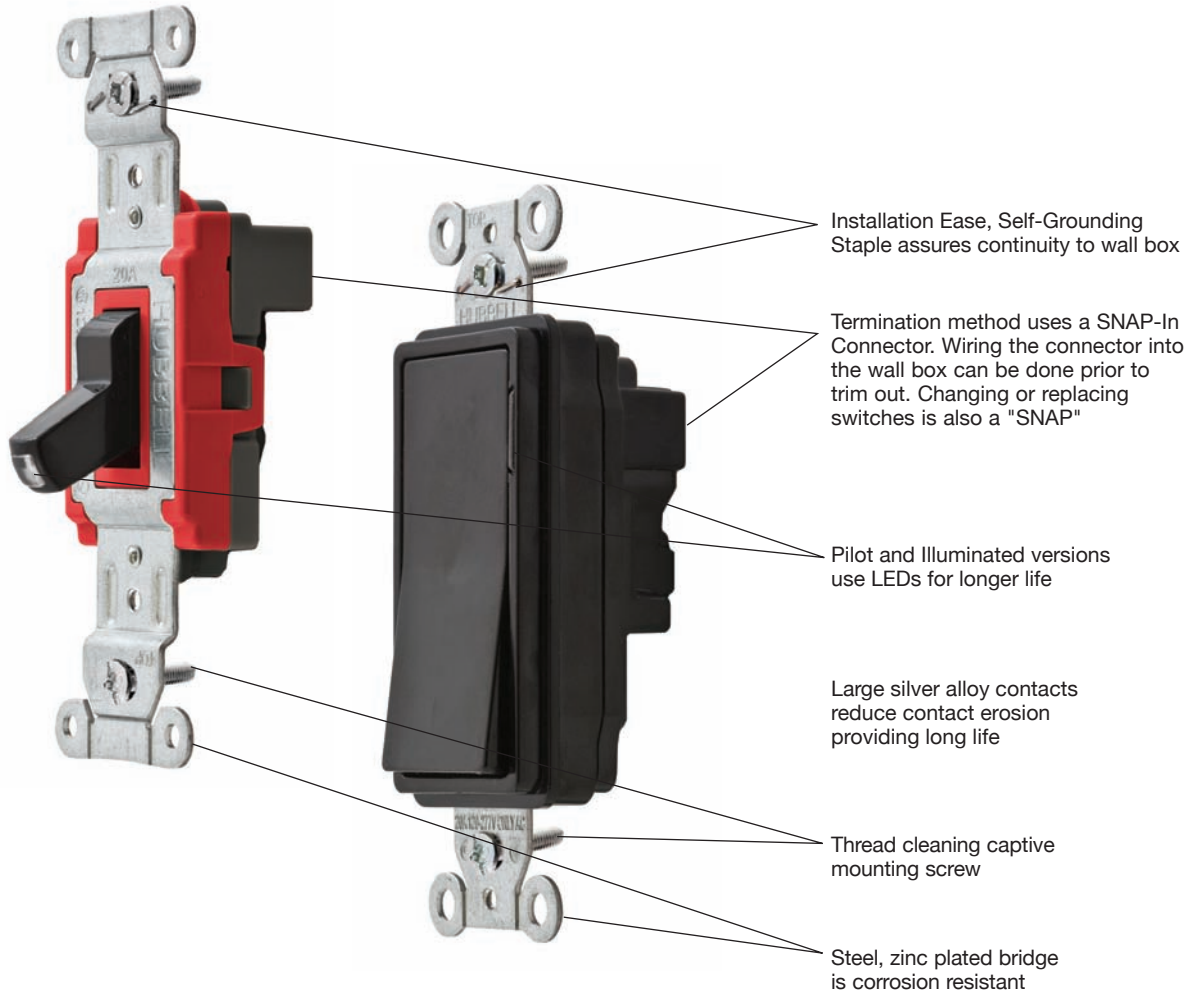
Switched Enclosures



Switches
SNAPConnect® Toggle and Decorator Series



Switches

SNAPConnect® Toggle and Decorator Series*Features and Benefits*

3-Wire Connector for
Single Pole and Single
Pole Illuminated

SNAPSPCONSTR
SNAPSPCONSOL



4-Wire Connector for
Single Pole Pilot light
switch

SNAPSPPLCONSTR
SNAPSPPLCONSOL



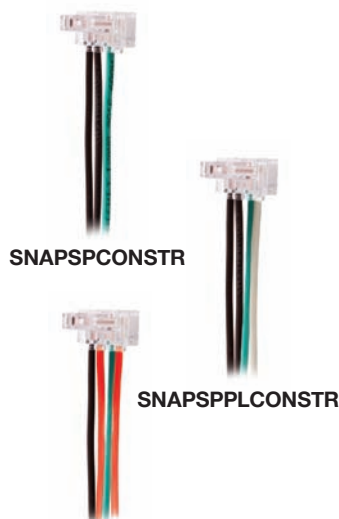
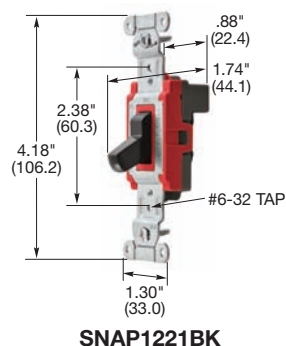
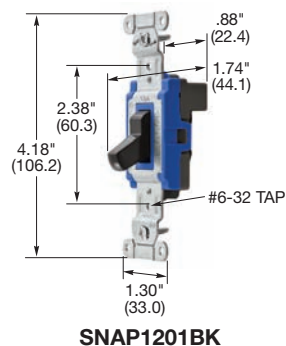
4-Wire Connector for
Three-Way and Three-
Way Illuminated

SNAP3WCONSTR
SNAP3WCONSOL

Switches

15 and 20 Ampere, 120-277 Volts AC

SNAPConnect® Toggle Series

**HP Conversion Chart**

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

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

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

20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle.	Black	SNAP1221BK	—	SNAP1223BK	—
	Brown	SNAP1221BR	—	SNAP1223BR	—
	Gray	SNAP1221GY	—	SNAP1223GY	—
	Ivory	SNAP1221I	—	SNAP1223I	—
	Light Almond	SNAP1221LA	—	SNAP1223LA	—
	Red	SNAP1221R	—	SNAP1223R	—
	White	SNAP1221W	—	SNAP1223W	—

SNAPConnect® Toggle Series Specification Grade, Illuminated, Light On with Load Off 15A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Blue LED.	Black	SNAP1201ILBK	—	SNAP1203ILBK	—
	Ivory	SNAP1201ILI	—	SNAP1203ILI	—
	Red	SNAP1201ILR	—	SNAP1203ILR	—
	White	SNAP1201ILW	—	SNAP1203ILW	—

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

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Red LED.	Black	SNAP1201PLBK	—	—	—
	Ivory	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, Blue LED.	Black	SNAP1221ILBK	—	SNAP1223ILBK	—
	Ivory	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, Red LED.	Black	SNAP1221PLBK	—	—	—
	Ivory	SNAP1221PLI	—	—	—
	Red	SNAP1221PLR	—	—	—
	White	SNAP1221PLW	—	—	—

SNAPConnect® 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.

Switches

15 and 20 Ampere, 120-277 Volts AC

SNAPConnect® Decorator Series

**SNAPConnect® Decorator Series Specification Grade,
15A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker.	Black	SNAP2101BK	—	SNAP2103BK	—
	Brown	SNAP2101BR	—	SNAP2103BR	—
	Gray	SNAP2101GY	—	SNAP2103GY	—
	Ivory	SNAP2101I	—	SNAP2103I	—
	Light Almond	SNAP2101LA	—	SNAP2103LA	—
	Red	SNAP2101R	—	SNAP2103R	—
	White	SNAP2101W	—	SNAP2103W	—

20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker.	Black	SNAP2121BK	—	SNAP2123BK	—
	Brown	SNAP2121BR	—	SNAP2123BR	—
	Gray	SNAP2121GY	—	SNAP2123GY	—
	Ivory	SNAP2121I	—	SNAP2123I	—
	Light Almond	SNAP2121LA	—	SNAP2123LA	—
	Red	SNAP2121R	—	SNAP2123R	—
	White	SNAP2121W	—	SNAP2123W	—

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

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Blue LED.	Black	SNAP2101ILBK	—	SNAP2103ILBK	—
	Ivory	SNAP2101ILI	—	SNAP2103ILI	—
	Red	SNAP2101ILR	—	SNAP2103ILR	—
	White	SNAP2101ILW	—	SNAP2103ILW	—

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

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Red LED.	Black	SNAP2101PLBK	—	—	—
	Ivory	SNAP2101PLR	—	—	—
	Red	SNAP2101PLI	—	—	—
	White	SNAP2101PLW	—	—	—

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

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Blue LED.	Black	SNAP2121ILBK	—	SNAP2123ILBK	—
	Ivory	SNAP2121ILI	—	SNAP2123ILI	—
	Red	SNAP2121ILR	—	SNAP2123ILR	—
	White	SNAP2121ILW	—	SNAP2123ILW	—

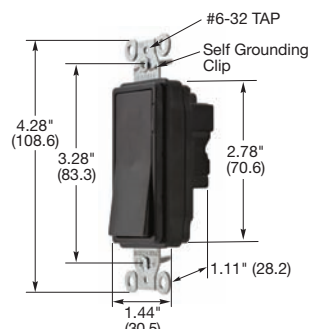
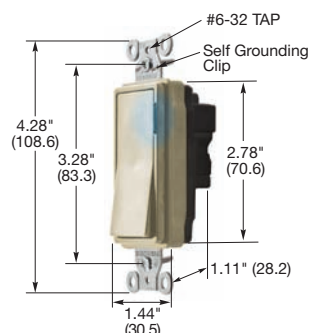
**Pilot, Light On with Load On
20A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Red LED.	Black	SNAP2121PLBK	—	—	—
	Ivory	SNAP2121PLI	—	—	—
	Red	SNAP2121PLR	—	—	—
	White	SNAP2121PLW	—	—	—

SNAPConnect® Pigtails

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

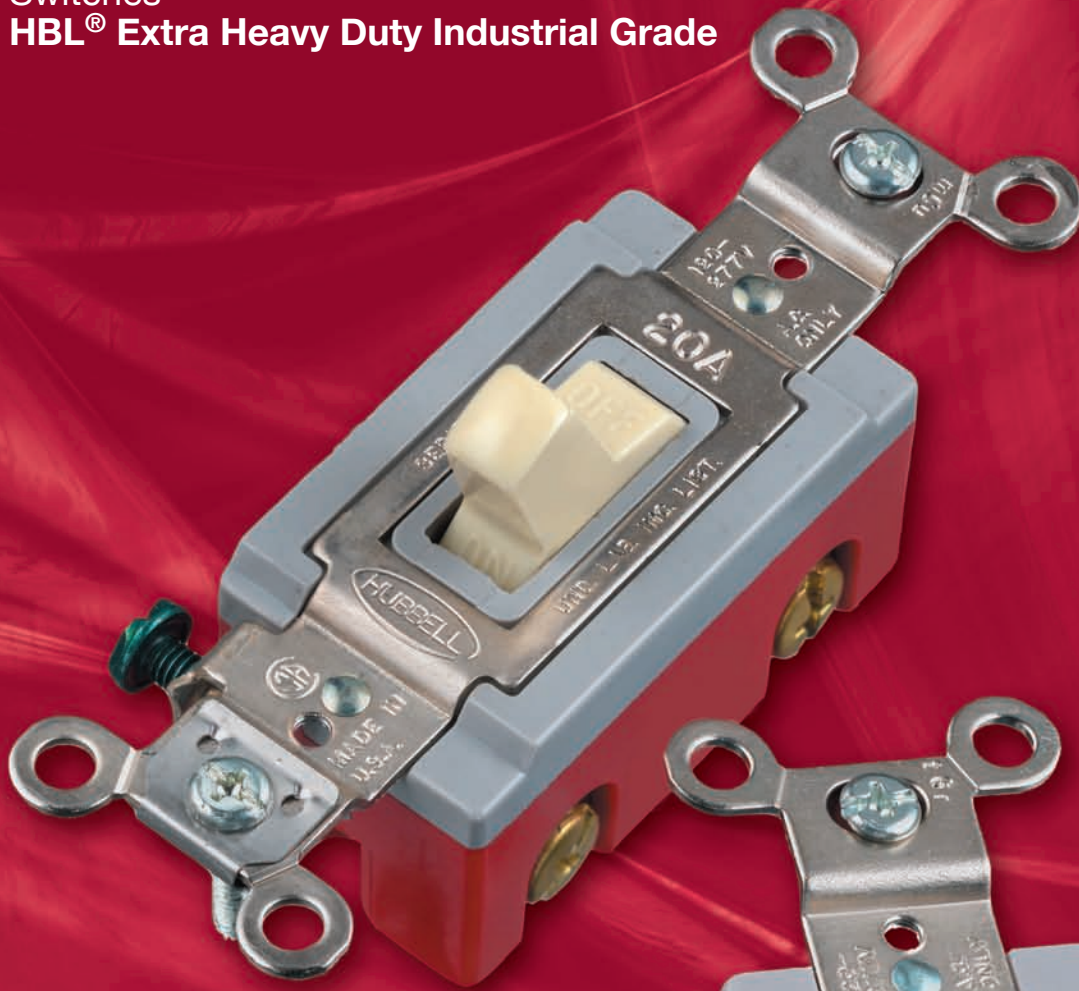
Note: See page C-15 for accessories.
See page C-16 for wallplates.
See page C-18 for wiring diagrams.

**SNAP2121BK****SNAP2121ILI****SNAP3WCONSTR****HP Conversion Chart**

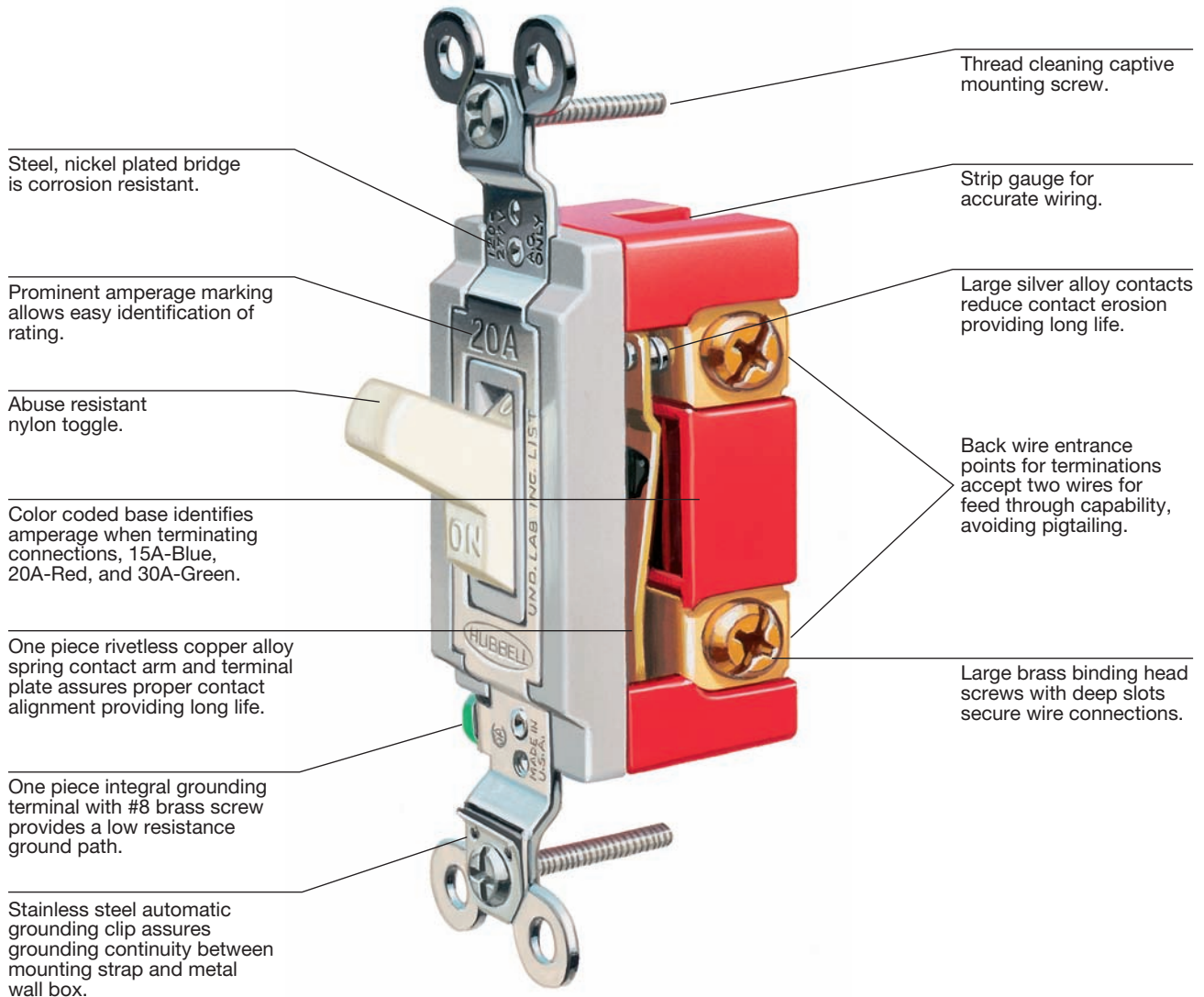
	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP



Switches HBL® Extra Heavy Duty Industrial Grade



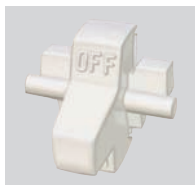
Switches

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.



Thermoplastic elastomer rocker assures quiet operation and precise timing. Permanently lubricated assembly provides long life and trouble free operation.



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



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).

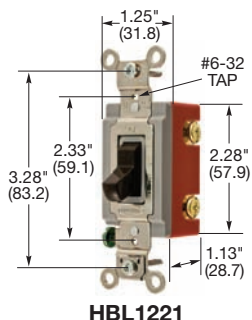
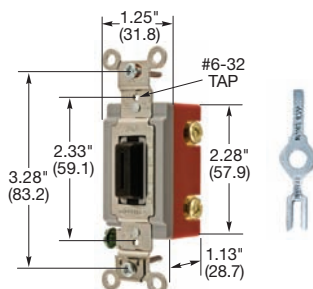
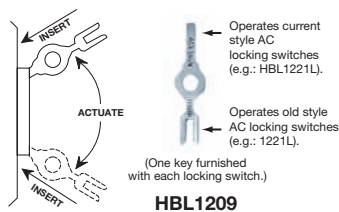
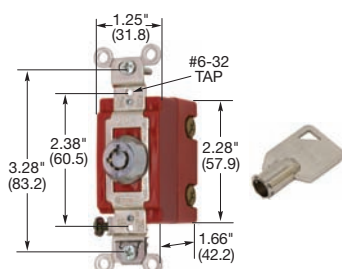
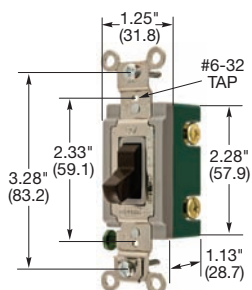
Switches

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

HBL® Extra Heavy Duty Industrial Series



Fed.Spec.

**HBL1221****HBL1221L and Key****HBL1209****HBL1222RKL and Key****HBL3031****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	HBL1201AL	—	HBL1203AL	—
	Black	HBL1201BK	—	HBL1203BK	HBL1204BK
	Brown	HBL1201	HBL1202	HBL1203	HBL1204
	Gray	HBL1201GY	—	HBL1203GY	HBL1204GY
	Ivory	HBL1201I	HBL1202I	HBL1203I	HBL1204I
	Light Almond	HBL1201LA	—	—	—
	Red	HBL1201R	—	—	—
	White	HBL1201W	—	HBL1203W	HBL1204W

20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond	HBL1221AL	HBL1222AL	HBL1223AL	HBL1224AL
	Black	HBL1221BK	HBL1222BK	HBL1223BK	HBL1224BK
	Brown	HBL1221	HBL1222	HBL1223	HBL1224
	Gray	HBL1221GY	HBL1222GY	HBL1223GY	HBL1224GY
	Ivory	HBL1221I	HBL1222I	HBL1223I	HBL1224I
	Light Almond	HBL1221LA	HBL1222LA	HBL1223LA	HBL1224LA
	Office White	HBL1221OW	HBL1222OW	HBL1223OW	HBL1224OW
	Red	HBL1221R	HBL1222R	HBL1223R	HBL1224R
	White	HBL1221W	HBL1222W	HBL1223W	HBL1224W

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

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

20A, 120-277V AC

Description	Key Guide Color	Single Pole	Double Pole	Three Way	Four Way
Key Guide, back and side wired.	Black	HBL1221L	HBL1222L	HBL1223L	HBL1224L
	Gray	HBL1221LG	HBL1222LG	HBL1223LG	HBL1224LG
	Ivory	HBL1221LI	HBL1222LI	HBL1223LI	HBL1224LI
	White	HBL1221LW	HBL1222LW	HBL1223LW	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 Barrel Key.		HBL1209RKL*			

30A, 120-277V AC

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

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.

** 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

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.	Ivory	15A 120-277V AC	HBL1201IL	—	HBL1203IL
	Ivory	20A 120-277V AC	HBL1221IL	—	HBL1223IL
	Clear		HBL1221ILC	—	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	20A 120-277V AC	HBL1221PL	HBL1222PL	HBL1223PL
	Clear		HBL1221PLC	—	HBL1223PLC
	Green		HBL1221PLG	—	—
	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, back and side wired.	Brown	HBL1556	HBL1557
	Gray	HBL1556GY	HBL1557GY
	Ivory	HBL1556I	HBL1557I
	Red	HBL1556R	—
	White	HBL1556W	HBL1557W
Key guide, back and side wired.	Black	HBL1556L	HBL1557L
	Ivory	HBL1556LI	HBL1557LI
	White	HBL1556LW	HBL1557LW
Key for Locking switch.		HBL1209*	

Maintained Contact, Specification Grade, Three Position, Two Circuit, Center Off, Single 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	HBL1381	HBL1385	—
	Ivory	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	HBL1382	HBL1386	HBL1388
	Ivory	HBL1382I	HBL1386I	HBL1388I
Locking.		—	HBL1386L	—
Key for Locking switch.		—	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.

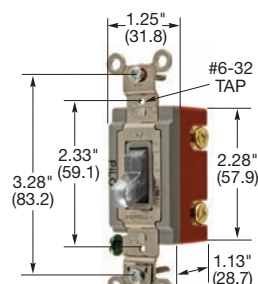
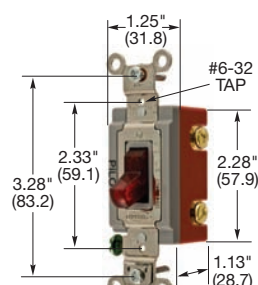
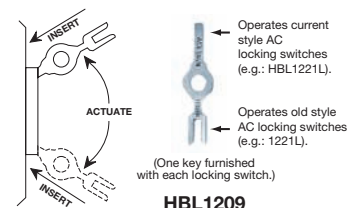
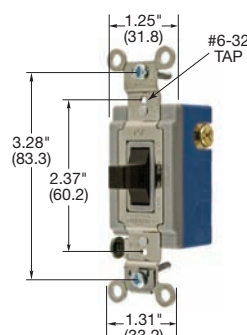
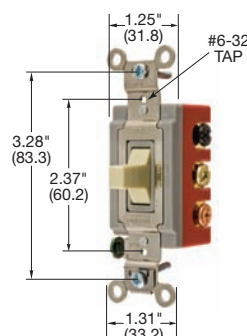
See page C-17 for technical data.

See page C-18 for wiring diagrams.

* Not UL Listed, CSA Certified.

HP Conversion Chart

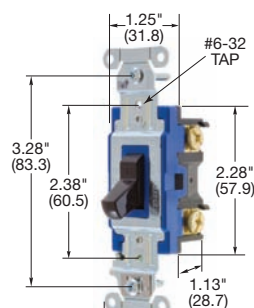
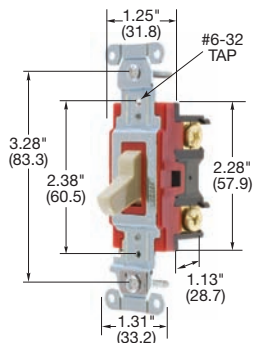
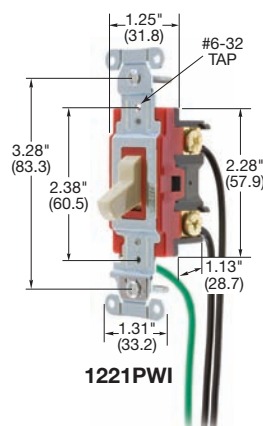
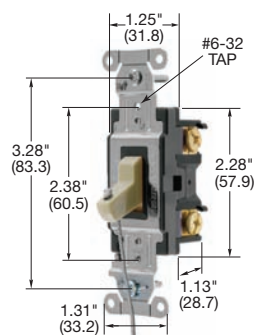
	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP
30A	2HP	2HP	2HP	2HP

**HBL1221ILC****HBL1221PL****HBL1209****HBL1381****HBL1386I**

Switches

15 and 20 Ampere, 120-277 Volts AC

Hubbell-Pro™ Heavy Duty Industrial Series

**1201BK****1221I****1221PWI****HBL1221IHCS****Hubbell-Pro™ Heavy Duty Industrial Series,
15A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond	1201AL	—	1203AL	—
	Black	1201BK	—	1203BK	—
	Brown	1201B	—	1203B	—
	Gray	1201GY	—	1203GY	—
	Ivory	1201I	—	1203I	—
	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, back and side wired.	Almond	1221AL	1222AL	1223AL	1224AL
	Black	1221BK	1222BK	1223BK	1224BK
	Brown	1221B	1222B	1223B	1224B
	Gray	1221GY	1222GY	1223GY	1224GY
	Ivory	1221I	1222I	1223I	1224I
	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	1221PWAL	1222PWAL	1223PWAL	1224PWAL
	Black	1221PWBK	1222PWBK	1223PWBK	1224PWBK
	Brown	1221PWB	1222PWB	1223PWB	1224PWB
	Gray	1221PWGY	1222PWGY	1223PWGY	1224PWGY
	Ivory	1221PWI	1222PWI	1223PWI	1224PWI
	Light Almond	1221PWLA	1222PWLA	1223PWLA	1224PWLA
	Office White	1221PWOW	1222PWOW	1223PWOW	1224PWOW
	Red	1221PWR	1222PWR	1223PWR	1224PWR
	White	1221PWW	1222PWW	1223PWW	1224PWW

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

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

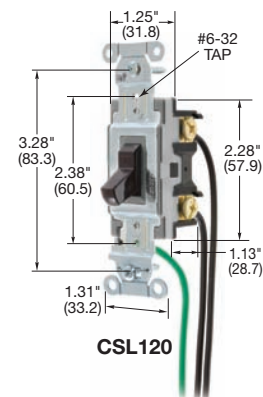
Switches

15 and 20 Ampere, 120-277 Volts AC

Pre-Wired/Leaded Toggle and Decorator Series

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

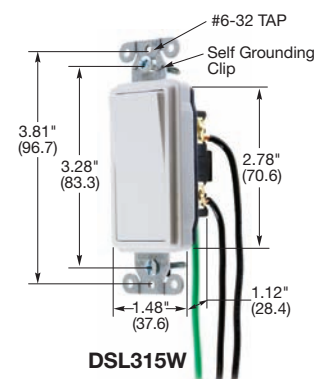
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Nylon, Pre-wired leads.	Almond	CSL115AL	CSL215AL	CSL315AL	CSL415AL
	Black	CSL115BK	CSL215BK	CSL315BK	CSL415BK
	Brown	CSL115	CSL215	CSL315	CSL415
	Gray	CSL115GY	CSL215GY	CSL315GY	CSL415GY
	Ivory	CSL115I	CSL215I	CSL315I	CSL415I
	Light Almond	CSL115LA	CSL215LA	CSL315LA	CSL415LA
	Office White	CSL115OW	CSL215OW	CSL315OW	CSL415OW
	White	CSL115W	CSL215W	CSL315W	CSL415W

**20A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Nylon, Pre-wired leads.	Almond	CSL120AL	CSL220AL	CSL320AL	CSL420AL
	Black	CSL120BK	CSL220BK	CSL320BK	CSL420BK
	Brown	CSL120	CSL220	CSL320	CSL420
	Gray	CSL120GY	CSL220GY	CSL320GY	CSL420GY
	Ivory	CSL120I	CSL220I	CSL320I	CSL420I
	Light Almond	CSL120LA	CSL220LA	CSL320LA	CSL420LA
	Office White	CSL120OW	CSL220OW	CSL320OW	CSL420OW
	Red	CSL120R	CSL220R	CSL320R	CSL420R
	White	CSL120W	CSL220W	CSL320W	CSL420W

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

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Polycarbonate, Pre-wired leads.	Almond	DSL115AL	DSL215AL	DSL315AL	DSL415AL
	Black	DSL115BK	DSL215BK	DSL315BK	DSL415BK
	Brown	DSL115	DSL215	DSL315	DSL415
	Gray	DSL115GY	DSL215GY	DSL315GY	DSL415GY
	Ivory	DSL115I	DSL215I	DSL315I	DSL415I
	Light Almond	DSL115LA	DSL215LA	DSL315LA	DSL415LA
	Office White	DSL115OW	DSL215OW	DSL315OW	DSL415OW
	White	DSL115W	DSL215W	DSL315W	DSL415W

**20A, 120-277V AC**

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Polycarbonate, Pre-wired leads.	Almond	DSL120AL	DSL220AL	DSL320AL	DSL420AL
	Black	DSL120BK	DSL220BK	DSL320BK	DSL420BK
	Brown	DSL120	DSL220	DSL320	DSL420
	Gray	DSL120GY	DSL220GY	DSL320GY	DSL420GY
	Ivory	DSL120I	DSL220I	DSL320I	DSL420I
	Light Almond	DSL120LA	DSL220LA	DSL320LA	DSL420LA
	Office White	DSL120OW	DSL220OW	DSL320OW	DSL420OW
	White	DSL120W	DSL220W	DSL320W	DSL420W

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

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Polycarbonate, Pre-wired leads, Blue LED.	Ivory	DSL120IL	—	DSL320IL	—
	White	DSL120ILW	—	DSL320ILW	—

Pilot, Light On with Load 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	—	—	—

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

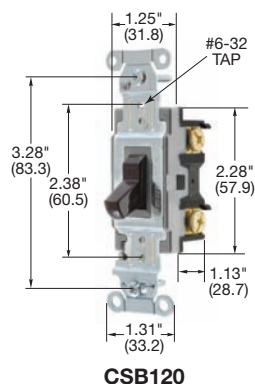
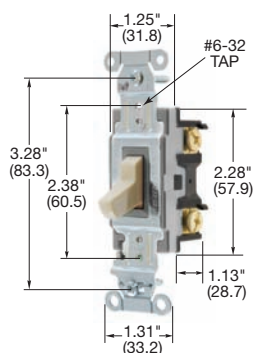
HP Conversion Chart

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

Switches

15 and 20 Ampere, 120-277 Volts AC

Specification Grade Commercial Series

**CSB120****CS1151****Specification Grade Commercial Series,
15A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond	CSB115AL	CSB215AL	CSB315AL	CSB415AL
	Black	CSB115BK	CSB215BK	CSB315BK	CSB415BK
	Brown	CSB115	CSB215	CSB315	CSB415
	Gray	CSB115GY	CSB215GY	CSB315GY	CSB415GY
	Ivory	CSB115I	CSB215I	CSB315I	CSB415I
	Light Almond	CSB115LA	CSB215LA	CSB315LA	CSB415LA
	White	CSB115W	CSB215W	CSB315W	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	CSB120AL	CSB220AL	CSB320AL	CSB420AL
	Black	CSB120BK	CSB220BK	CSB320BK	CSB420BK
	Brown	CSB120	CSB220	CSB320	CSB420
	Gray	CSB120GY	CSB220GY	CSB320GY	CSB420GY
	Ivory	CSB120I	CSB220I	CSB320I	CSB420I
	Light Almond	CSB120LA	CSB220LA	CSB320LA	CSB420LA
	Red	CSB120R	CSB220R	CSB320R	CSB420R
	White	CSB120W	CSB220W	CSB320W	CSB420W

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

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, side wired only.	Almond	CS115AL	—	CS315AL	—
	Black	CS115BK	—	CS315BK	—
	Brown	CS115	—	CS315	—
	Gray	CS115GY	—	CS315GY	—
	Ivory	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, side wired only.	Almond	CS120AL	—	CS320AL	—
	Black	CS120BK	—	CS320BK	—
	Brown	CS120	—	CS320	—
	Gray	CS120GY	—	CS320GY	—
	Ivory	CS120I	—	CS320I	—
	Light Almond	CS120LA	—	CS320LA	—
	White	CS120W	—	CS320W	—

Note: See page C-11 for pre-wired/lead devices.

See page C-15 for accessories.

See page C-16 for wallplates.

See page C-18 for wiring diagrams.

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

HP Conversion Chart

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



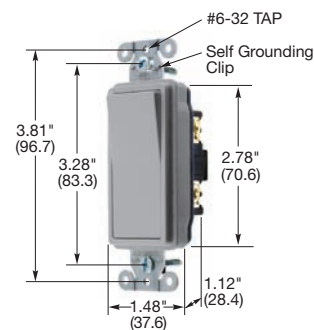
Switches

15 and 20 Ampere, 120-277 Volt AC

Style Line® Decorator Series Specification Grade

**Style Line® Decorator Series Specification Grade,
15A, 120-277V AC**

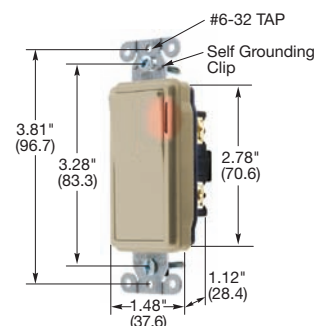
Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, back and side wired.	Almond	DS115AL	—	DS315AL	—
	Black	DS115BK	—	DS315BK	—
	Brown	DS115	—	DS315	—
	Gray	DS115GY	—	DS315GY	—
	Ivory	DS115I	—	DS315I	—
	Light Almond	DS115LA	—	DS315LA	—
	Office White	DS115OW	—	DS315OW	—
	White	DS115W	—	DS315W	—

**DS115GY****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	DS120AL	DS220AL	DS320AL	DS420AL
	Black	DS120BK	DS220BK	DS320BK	DS420BK
	Brown	DS120	DS220B	DS320	DS420
	Gray	DS120GY	DS220GY	DS320GY	DS420GY
	Ivory	DS120I	DS220I	DS320I	DS420I
	Light Almond	DS120LA	DS220LA	DS320LA	DS420LA
	Office White	DS120OW	DS220OW	DS320OW	DS420OW
	Red	DS120R	DS220R	DS320R	DS420R
	White	DS120W	DS220W	DS320W	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, with Red LED, back and side wired.	Black	DS120ILBK	—	DS320ILBK	—
	Ivory	DS120IL	—	DS320IL	—
	White	DS120ILW	—	DS320ILW	—

**DS120IL****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, with Blue LED, back and side wired.	Black	DS120PLBK	—	—	—
	Ivory	DS120PLI	—	—	—
	White	DS120PLW	—	—	—

Note: See page C-11 for pre-wired/lead 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



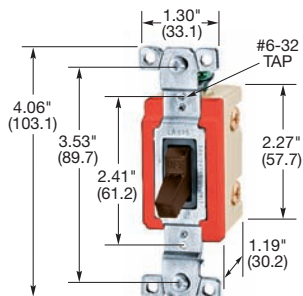
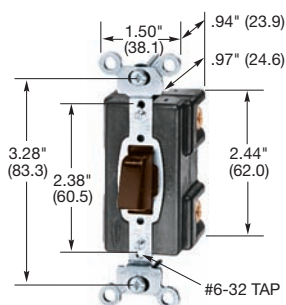
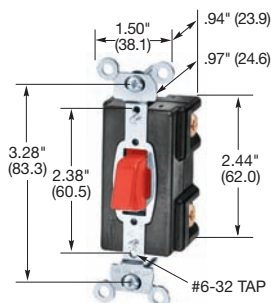
Switches

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

**HBL18221CN****HBL1281****HBL1297****HBL® Extra Heavy Duty Industrial Series
15A, 347V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon toggle, back and side wired.	Brown	HBL18201CN	—	HBL18203CN	—
	Ivory	HBL18201ICN	—	HBL18203ICN	HBL18204ICN
Locking.		HBL18201LCN	—	HBL18203LCN	—
Key for Locking switch.		HBL1209*			

20A, 347V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon toggle, back and side wired.	Brown	HBL18221CN	—	HBL18223CN	—
	Ivory	HBL18221ICN	—	HBL18223ICN	HBL18224ICN

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

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

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
15A, nylon actuator.	Ivory	—	—	—	HBL1259I*
20A, nylon actuator.	Ivory	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-18 for wiring diagrams.

* Not UL Listed, CSA Certified.

• Not HP rated.

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 Accessories

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

IP44
SUITABILITY

Pilot Light, 120-277V AC

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



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*



HBL96061
Shown with wallplate and switch

SWITCHOUT® Lockout Device

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



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



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

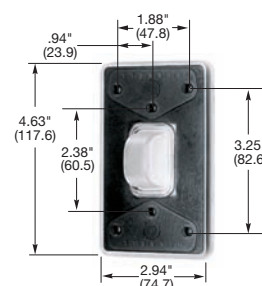
Note: * Not UL Listed or CSA Certified.

Each locking wallplate is supplied with two keys.

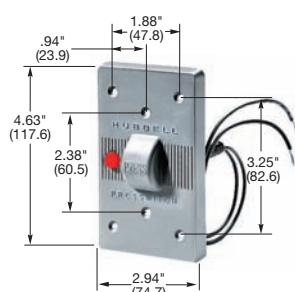
+ Two devices per package.

See Section U for more information on safety lockout devices.

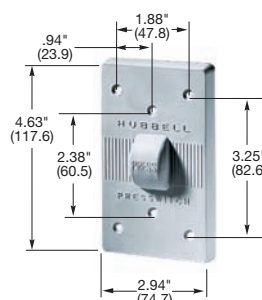
See Section K for full line of wallplates.



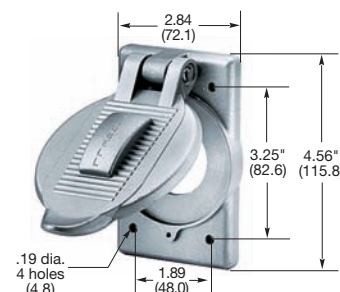
HBL1795



HBL1785



HBL1750



HBL7420



Switches

Accessories

Nylon and Metal Wallplates



1-Gang



2-Gang



3-Gang

Standard Size, Smooth Nylon, Toggle Switch Plates

Color	Catalog Number		
Almond	NP1AL	NP2AL	NP3AL
Black	NP1BK	NP2BK	NP3BK
Brown	NP1	NP2	NP3
Gray	NP1GY	NP2GY	NP3GY
Ivory	NP1I	NP2I	NP3I
Office White	NP1OW	NP2OW	NP3OW
Red	NP1R	NP2R	NP3R
White	NP1W	NP2W	NP3W

Standard Size, Smooth Metal, Toggle Switch Plates

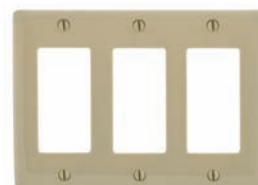
Color	Catalog Number		
Aluminum	SA1	SA2	①
Brass	SB1	SB2	SBP3*
Stainless Steel, 302/304	SS1	SS2	SS3
Stainless Steel, 430	SS1L	SS2L	SS3L



1-Gang



2-Gang



3-Gang

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
Ivory	NP26I	NP262I	NP263I
Office White	NP26OW	NP262OW	NP263OW
Red	NP26R	NP262R	NP263R
White	NP26W	NP262W	NP263W

Standard Size, Smooth Metal, Style Line® Switch Plates

Color	Catalog Number		
Aluminum	①	①	①
Brass	SB26	SB262	①
Stainless Steel, 302/304	SS26	SS262	SS263
Stainless Steel, 430	SS26L	SS262L	—

Note: See Section K for full line of wallplates.

* Brass plated.

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



Switches

Technical Information

HBL® Extra Heavy Duty Industrial Grade Switches

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

Listings	Component	Material
UL Listed	Base	Thermoset, Color Coded by Amperage
CSA Certified	Top	Thermoset, Gray
Verified to Fed. Spec. W-S-896,	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

Performance Data**Electrical**

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

Mechanical

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

Flammability	UL 94V-2.
Operating Temperature	Max. continuous: 75°C; Min. continuous: -40°C without impact.

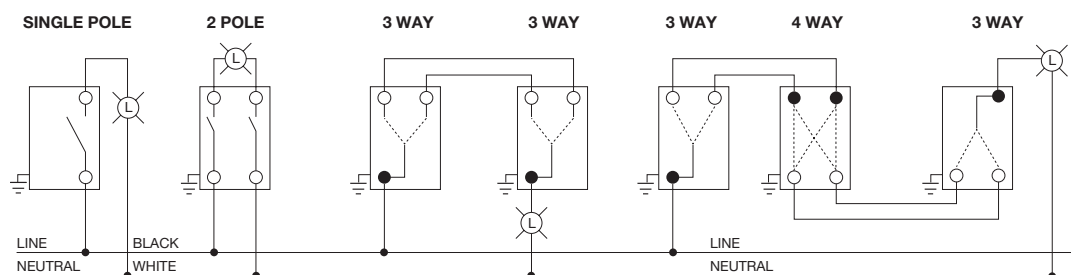




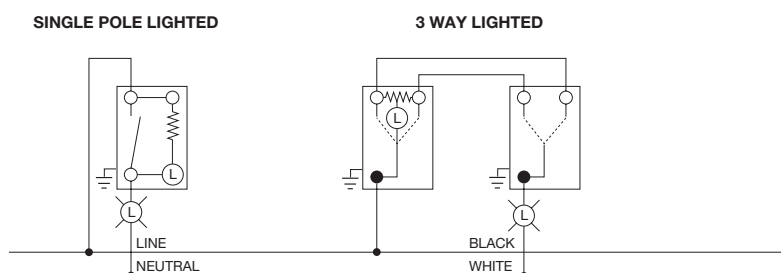
Switches

Toggle Switch Wiring Diagrams

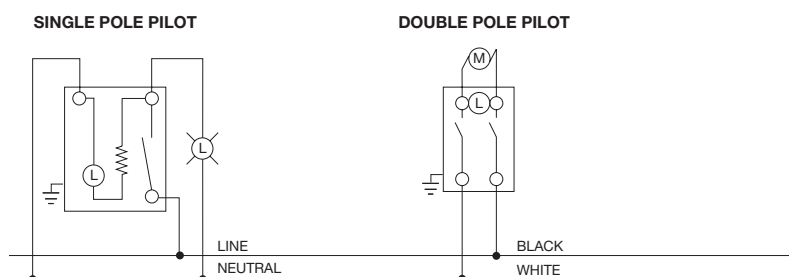
Standard Toggle Type Switches



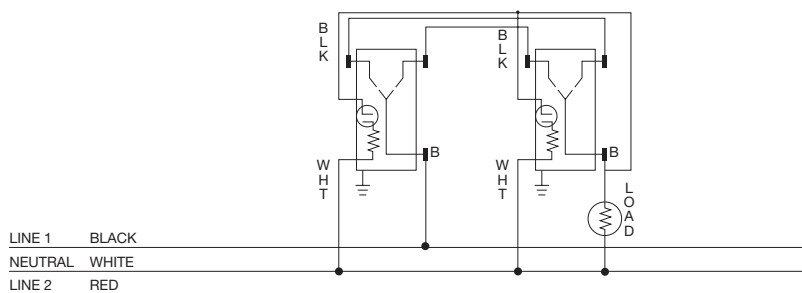
Illuminated Switches (light on with load off)



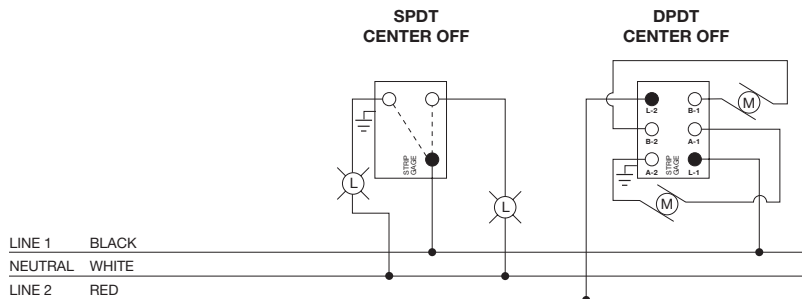
Pilot Light Switches (light on with load on)



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
CSB315	Yes	Yes	Yes	HBL1282	No	Yes	Yes
CSB415	Yes	Yes	Yes	HBL1283	No	No	No
CSB120	Yes	Yes	Yes	HBL1284	No	No	No
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
DSL320	Yes	Yes	Yes	SNAP1203IL	Yes	Yes	Yes
DSL420	Yes	Yes	Yes	SNAP1221	Yes	Yes	Yes
HBL1201	Yes	Yes	Yes	SNAP1221IL	Yes	Yes	Yes
HBL1202	Yes	Yes	Yes	SNAP1221PL	Yes	Yes	Yes
HBL1203	Yes	Yes	Yes	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

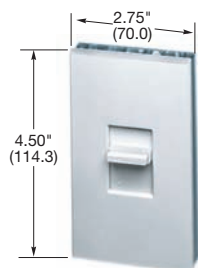
Note: Catalog numbers above represent all colors and variations.



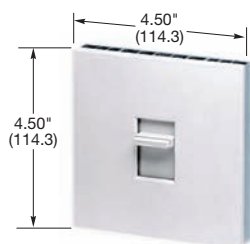
Switches

600 to 2000 Watts, 120 Volts AC 60Hz

Slide and Rotary Control Dimmers



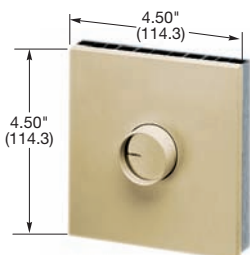
600 and 1000W Dimmer
Fits Single-Gang Wall Boxes.
AS63 and AS103



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.	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.
See page C-21 for ganging and derating.*

Architectural Grade, Incandescent Rotary Control Dimmers

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

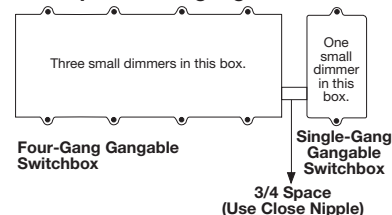
Architectural Grade Slide and Rotary Series

Number of Switchboxes Required with Dimmer Side sections Intact

		Number of Small Controls (600W and 1000W)						
		0	1	2	3	4	5	6
Number of Large Controls (1500W and 2000W)	0	0	1	1+1	4	1+4	7	1+7
	1	1	3	5	6	8	9	11
	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 3/4 in. apart from the other switchbox(es). A 3/4 in. close nipple is recommended as a spacer between the switchboxes.

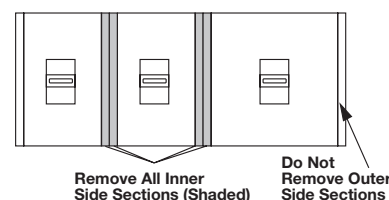
Example of four-gang installation



Number of Switchboxes Required with Side sections Removed

		Number of Small Controls (600W and 1000W)						
		0	1	2	3	4	5	6
Number of Large Controls (1500W and 2000W)	0	0	1	2	3	4	5	6
	1	1	3	4	5	6	7	8
	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

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



Switches

Heavy Duty Panel Mount

Panel Mount and Bat Handle Switches

**HBL11****HBL123SP****10A 250V AC 20A 125V AC Horsepower Rated 3/4 HP, 125-250V AC**

Description	Terminal		Catalog Number
Single pole/ single throw.	Screw Spade		HBL11 HBL11SP
Single pole/ single throw momentary.	Screw Spade		HBL11M HBL11SPM
Single pole/ double throw.	Screw Spade		HBL12 HBL12SP
Single pole/ double throw 3-position center off.	Screw Spade		HBL123 HBL123SP
Single pole/ double throw 3-position center off momentary.	Screw Spade		HBL123MM HBL123SPMM

Note: All threaded stems 1/32 in.-32 thread.

10A 240V AC 15A 120V AC

Description	Terminal		Catalog Number
Single pole/ single throw.	Screw		HBL118

Note: 1/32 in.-32 thread.

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.		HBL11WL

Note: 1/32 in.-32 thread, keyway .080 x .035.

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

UL Recognized.



Switches

Heavy Duty Panel Mount

Panel Mount and Bat Handle Switches

10A 250V AC 20A 125V AC Horsepower Rated 1½ HP, 125-250V AC

Description	Terminal		Catalog Number
Double pole/ single throw.	Screw Spade		HBL21 HBL21SP
Double pole/ double throw.	Screw Spade		HBL22 HBL22SP
Double pole/ double throw 3 position center off.	Screw Spade		HBL223 HBL223SP
Double pole/ double throw 3 position center off momentary.	Screw Spade		HBL223MM HBL223SPMM
Silicone rubber boot.			SSB1

Note: All threaded stems 1/32 in.-32 thread.

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

**HBL21****HBL223****SSB1****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.		HBL11PBWL

Note: 1/32 in.-32 thread, keyway .080 x .034.

**HBL11PBWL**



Switches

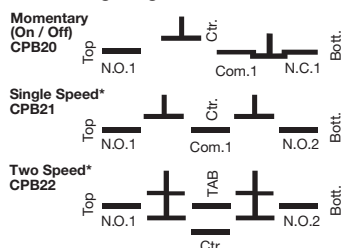
Pendant Pushbutton Stations

PBS and CPB2 Series



CPB21

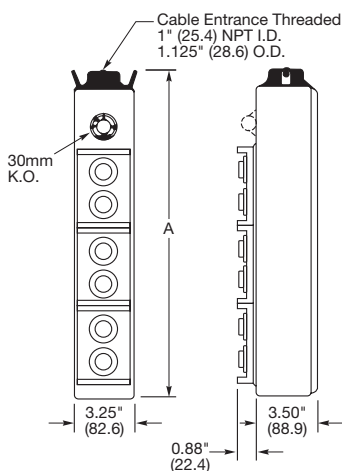
Wiring Diagram CPB2 Series



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



PBS6


IP55
 SUITABILITY

CPB2 Series Compact Pendant Stations, Two Button, NEMA 4X

Description	Catalog Number
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

Note: 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 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

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
 SUITABILITY

PBS Series Heavy Duty Pendant Pushbutton Stations, NEMA 3R

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	A	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



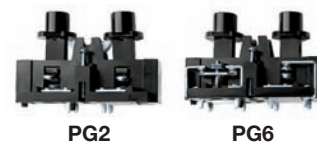
Switches

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). Momentary, start-stop, reset-stop.	PG6
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. 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.	MS5



PG2

PG6



MS2

MS5

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



TB2



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.



PBSLP



PBSBC



PBSPL1

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



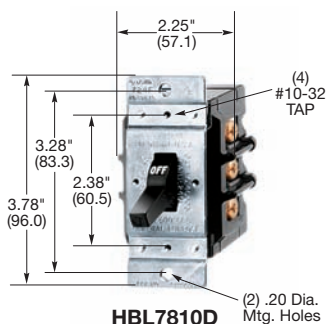
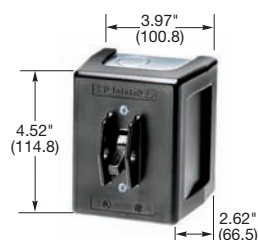
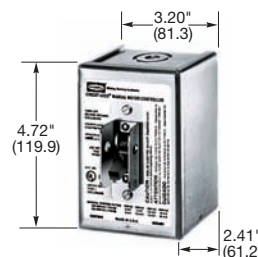
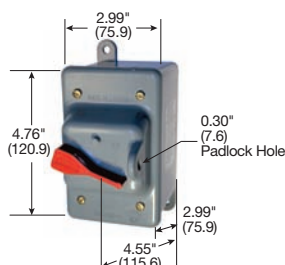
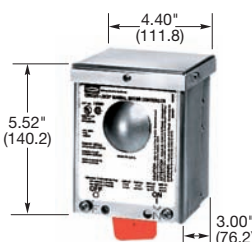
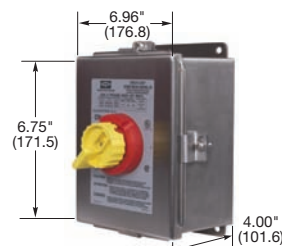
07401023



Switches

30 Ampere, 600 Volts AC Manual Motor Controllers

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

**HBL7810D****HBL1389D****HBL13R13D****HBL1379D****HBL13R23D****HBL13R89D****HBL13S33D**

30A 600V AC Manual Motor Controllers, Double Pole

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.	HBL13R12D

Three Pole

Description	Catalog Number
30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired.	HBL7810D
30A, three pole, single throw, AC manual motor controller, black nylon handle, short toggle.	HBL7810DS
HBL7810D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame.	HBL1389D
HBL7810D in HBL1370 metal Type 1 enclosure.	HBL1379D
HBL7810D in NEMA 3R non-metallic enclosure.	HBL13R23D
HBL7810D in HBL13R90 metal Type 3R enclosure.	HBL13R89D
HBL7810D in NEMA 3R flip-lid enclosure.	HBL13R13D
30A, three pole, rotary controller in NEMA 4X stainless steel enclosure.	HBL13S33D
30A, three pole, rotary controller in NEMA 4X non-metallic enclosure.	HBL13X33D

Motor Rating

Product	120V AC	240V AC	480V AC	600V AC	Phase
30A Double Pole	2HP	5HP	10HP	15HP	1
30A Three Pole	3HP	7½HP	15HP	20HP	3
40A Double Pole	2HP	5HP	10HP	15HP	1
40A Three Pole	3HP	7½HP	15HP	20HP	3
50A Double Pole	2HP	5HP	10HP	15HP	1
50A Three Pole	3HP	7½HP	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



Switches

40, 50, 60 and 85 Ampere, 600 Volts AC Manual Motor Controllers

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

IP44
SUITABILITY

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 HBL7810D 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

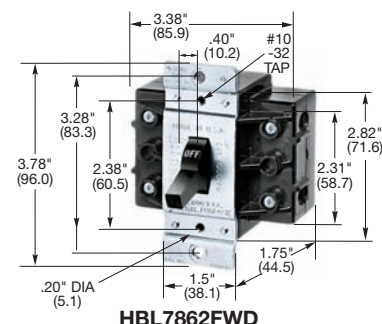
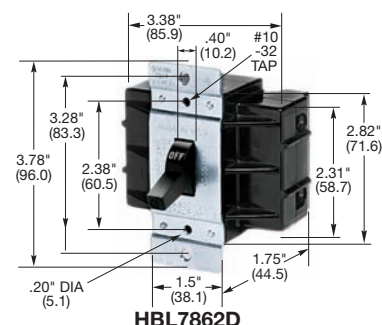
Note: See page C-29 for technical data.

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

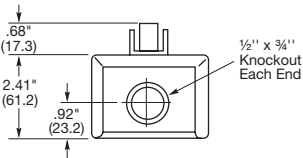
Description	Catalog Number
Finger Guards, fit 30, 40 and 50 amp controllers.	HBLFG30
Auxiliary Contacts, for use in rotary switches only.	HBLAUX



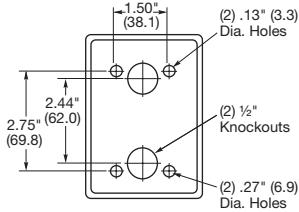


Switches
30 and 60 Ampere Enclosures

IP44*
SUITABILITY



END VIEW
HBL1370/HBL1372D/HBL1379D



BACK VIEW
HBL1370/HBL1372D/HBL1379D

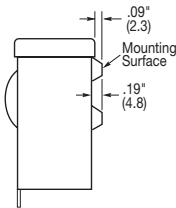
30 Amp Enclosures

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

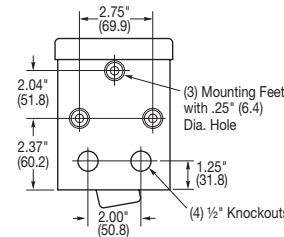
Note: 30 amp manual motor controllers are suitable for use with enclosure HBL13R90.

* Enclosure rating.

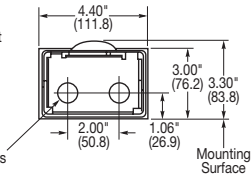
See page C-29 for technical data.



SIDE VIEW
HBL13R89D / HBL13R90
HBL13R92D



BACK VIEW
HBL13R89D / HBL13R90
HBL13R92D



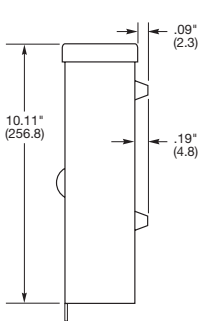
END VIEW
HBL13R89D / HBL13R90
HBL13R92D

60 Amp Enclosures

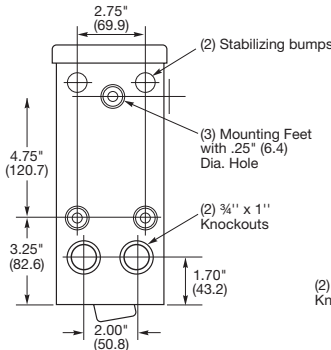
Description	Catalog Number
Type 3R metal enclosure without switch.	HBL16R90

Note: 60 amp manual motor controllers are suitable for use with enclosure HBL16R90.

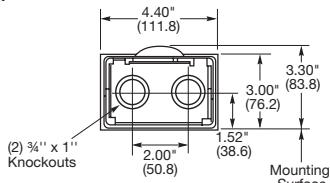
* Enclosure rating.



SIDE VIEW
HBL16R90 / HBL16R92D
HBL16R93D



BACK VIEW
HBL16R90 / HBL16R92D
HBL16R93D



END VIEW
HBL16R90 / HBL16R92D
HBL16R93D



Switches

Technical Information

Heavy Duty Manual Motor Controllers

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

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

Performance Data

Electrical	
Dielectric Voltage	2,200V AC max for 1 minute.
Electrical Life (Minimum)	6,000 cycles at rated switch parameters.
Working Voltage	600V AC RMS.
Short Circuit Withstand Rating (Motor Disconnect)	5,000 and 10,000 RMS with RK5 fuses at rated switch value and Class "J" fuses as marked.
Operating Temperature	Min. continuous: -40°C without impact.
Mechanical Life (minimum)	10,000 Cycles.
Terminal Torque (30A, 40A, 50A)	20 inch pounds.
Terminal Torque (60A, 85A)	25 inch pounds.

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

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

Note: * Use listed/certified ring terminal.





30 Ampere, 600 Volts AC

Quick Disconnect Switches

Thermoplastic Cover on Plated Steel Base

Lockable Handle to Meet OSHA Lockout/
Tagout Regulations

NEMA 1 Enclosure

Pre-wired with LINKOSITY® Components

Crush and Impact Resistance
of MC Cable

Cable Ratings:
TC-ER, MTW, ST00W

Type 4X Enclosure

Lockable Handle to Meet OSHA Lockout/
Tagout Regulations

High Impact Valox® Enclosure



HBL1389MQR2



HBL1389MQ5



HBLDS3MQR



HBLDS3MQ5



PH2030C

Quick Disconnect Switches

Type 1	30A 3 Pole 600V AC	Catalog Number
HBL1389D	with one pre-wired LINKOSITY® female receptacle (load side).	HBL1389MQR
HBL1389D	with 5 foot pre-wired LINKOSITY® female cable (load side).	HBL1389MQ5
HBL1389D	with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	HBL1389MQR2
Type 4X	30A 3 Pole 600V AC	
HBLDS3	with one pre-wired LINKOSITY® female receptacle (load side).	HBLDS3MQR
HBLDS3	with 5 foot pre-wired LINKOSITY® female cable (load side).	HBLDS3MQ5
HBLDS3	with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	HBLDS3MQR2

Accessories

Description	Catalog Number
3P 4W LINKOSITY® male receptacle for installation on motor.	RM3004PA001
3P 4W LINKOSITY® female receptacle for installation in switch.	RF3004PA001
3P 4W LINKOSITY® double ended (male/female) 5-50 foot cable.	PH3004PAXXX*
3P 4W LINKOSITY® single ended (female) 5-50 foot cable.	PF3004PAXXX*
Cord connector, 3/4 in. N.P.T. .63-.75 in. (16.0-19.1) diameter.	SHC1037CR
Lock-on cover for LINKOSITY® connections.	PH2030C

Note: * Cables available from 5-50 feet in 5 foot increments. To purchase larger cable, replace the XXX with the required length in feet. (Examples: PH3004PA005 = 5 foot cable, PH3004PA015 = 15 foot cable.)

Sample Set Up

(1) HBLDS3MQR + (1) PH3004PAXXX + (1) RM3004PA001 = Total Set Up**



+



+



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Note: ** Retrofit parts available for pre-existing disconnect switch installations.
Please consult factory for availability.

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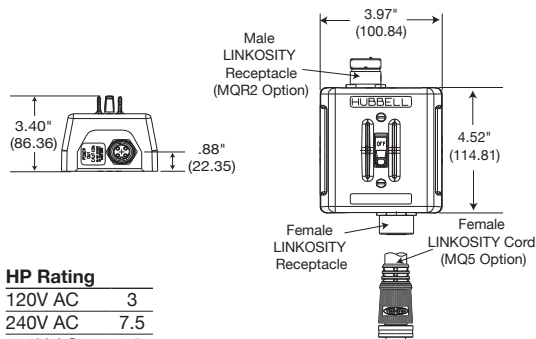
30 Ampere, 600 Volts AC

Quick Disconnect Switches



Dimensions

Type 1



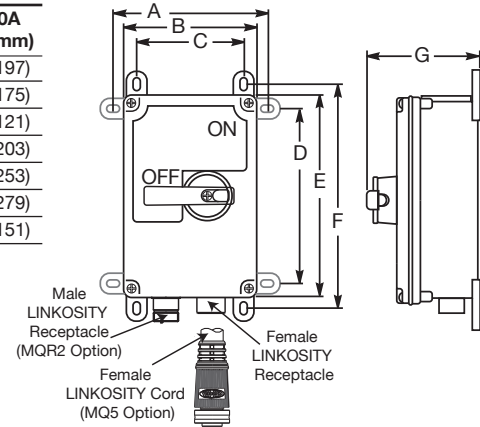
HP Rating

120V AC	3
240V AC	7.5
480V AC	15
600V AC	20

Type 4X

Dimensions

Key	30A inch (mm)	60A/100A inch (mm)
A	6.00 (152)	7.75 (197)
B	5.12 (130)	6.87 (175)
C	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)



Specifications

Type 1

Type 4X

Electrical Performance

Dielectric Voltage	2,200V AC minimum for 1 minute.	2,200V AC minimum for 1 minute.
Electrical Life	6,000 cycles with load.	6,000 cycles with load.
Max. Working Voltage	600V AC RMS.	600V AC RMS.
Short Circuit Withstand Rating as Motor Disconnect	10,000 RMS symmetrical amps when tested with 60A max J fuses.	10,000 RMS symmetrical amps.
Short Circuit Withstand Rating as Motor Controller	10,000 RMS symmetrical amps when tested with 125A RK5 fuses.	5,000 RMS symmetrical amps.

Mechanical

Mechanical Life	10,000 minimum cycles.			10,000 minimum cycles.		
	Amps	AWG Min.	AWG Max.	Amps	AWG Min.	AWG Max.
Terminal Accommodations	30	#14	#10	30	#14	#10
Terminal Torque	30	20 inch pounds		30	20 inch pounds	
Impact Resistance	—	—	—	UL746C		

Environmental

Flammability	UL94HB/V-0.	UL94-5VA and V0 Classification.
Operating Temp.	Max. continuous 60°C	Max. continuous 75°C
	Min. continuous w/o impact -40°C	Min. continuous -40°C

Listings

UL 508	Industrial Control Equipment File #E36355	Industrial Control Equipment File #E36355
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LINKOSITY® Connection

Certifications

Connecting Components	Listed to UL 2238 and UL 50.
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Electrical Performance

Voltage	Up to 600V AC.
Amperage	Up to 30A.

Environmental

Connectivity System Components	
Moisture Resistance	UL Type 4, 4X, 12 and 13.
Ingress Protection	IP67 Suitability.
Flammability	UL94HB cables / UL94V-0 receptacles.

Materials

Connectivity System Components	
Contact Carrier	Nylon 6/6, white.
Contact Materials	Pins - brass.
	Sockets - leaded nickel copper w/ stainless steel sleeve.
Contact Plating	Hard gold over palladium/nickel.
Overmold Material	Glass filled polyurethane, gray.
Coupling Hardware	Nickel plated brass.
Cable (16 AWG and Up)	UL 600V Type TC-ER, MTW 90°C or STOOW 600V 105°C.





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.



Circuit-Lock® Unfused Disconnect Switches are available in 30, 60 and 100 Amp, 600V AC ratings.



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



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

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Switched Enclosures

Circuit-Lock® Unfused Disconnect Switches

"Suitable as Motor Disconnect"



IP66
SUITABILITY

30, 60 and 100 Amp Unfused Disconnect Switches

Description	Catalog Number
30A Circuit-Lock disconnect switch.	HBLDS3
30A Circuit-Lock disconnect switch for use with variable frequency drives.	HBLDS3VFD^Δ
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



HBLDS3AC



HBLAC1



HBLAC2

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 3/4 in. N.P.T. Raintight conduit fitting.

60A and 100A Units are supplied with two 1 1/4 in. N.P.T. Raintight conduit fittings.

^Δ See page C-34 for wiring details.



HBL30RGB



HBL30RNB



Switched Enclosures
Circuit-Lock® Unfused Disconnect Switches
“Suitable as Motor Disconnect”

IP66
SUITABILITY



HBLDS3RC



HBLDS3RS



HBLRFT1

Replacement Covers

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

Replacement Switches

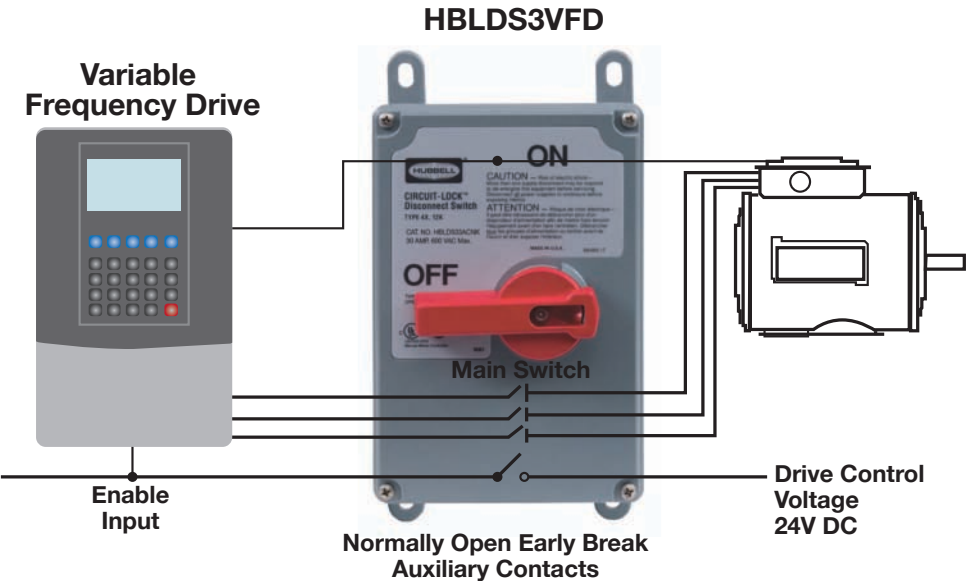
Description	Catalog Number
For 30A switches.	HBLDS3RS
For 60A and 100A switches.	HBLDS60100RS
For HBLDS33ACNK.	HBLDS33ACRS

Replacement Mounting Feet

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

Note: 30A Units are supplied with one 3/4 in. N.P.T. raintight conduit fitting.
60A and 100A Units are supplied with two 1 1/4 in. N.P.T. raintight conduit fittings.
kage of 10 feet and 10 screws.

Variable Frequency Drive Diagram





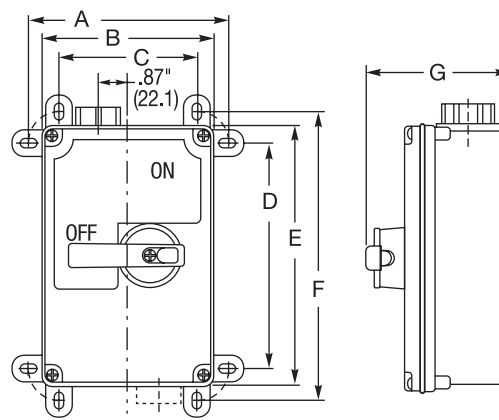
Switched Enclosures

Circuit-Lock® Unfused Disconnect Switches

Dimensions and Specifications

Dimensions

Key	30A inch (mm)	60A/100A inch (mm)
A	6.00 (152)	7.75 (197)
B	5.12 (130)	6.87 (175)
C	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 (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.

Materials

Part	Material
Base	Valox®
Top	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

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.

Three molded-in conduit drill points are located on the top, bottom, and back surface of enclosure. Conduit hub provided: 30A 1 inch N.P.T., 60A 1 1/4 inch N.P.T.

Stainless steel hardware for corrosion resistance

Safety interlocked fuse access door

Non-metallic enclosure meets UL 50 Type 4X (watertight) 12K (dust-tight) and IP66 suitability requirements. Enclosure is molded of rugged Valox® to resist abuse, corrosion and enhance safety. All external hardware is stainless steel

Removable door for ease of wiring and installation

Adjustable mounting feet (4) can be mounted in any of three positions for ease of installation

Fused disconnect switches accept Class "J" fuses

Lockable high visibility red handle to meet OSHA Lockout/Tagout

FDS30

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



Stainless steel 1/4 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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Switched Enclosures

Circuit-Lock® Fused Disconnect Switches

"Suitable as Motor Disconnect"

Dimensions



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

IP66
SUITABILITY

30 and 60 Amp Fused Disconnect Switches

Description	Catalog Number
30A Circuit-Lock fused disconnect switch.	FDS30*
60A Circuit-Lock fused disconnect switch.	FDS60*

Note: *Class "J" fuses not included.



FDS30

Auxiliary Contacts

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



ACFSNO

Watertight Closure Plug Kits

Description	Catalog Number
For 30A Circuit-Lock fused disconnect switch.	MICPK30
For 60A Circuit-Lock fused disconnect switch.	MICPK60



MICPK30

Replacement Mounting Feet

Description	Catalog Number
Replacement mounting feet and screws for 30A and 60A fused disconnect switches.	HBLRFT2^Δ

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

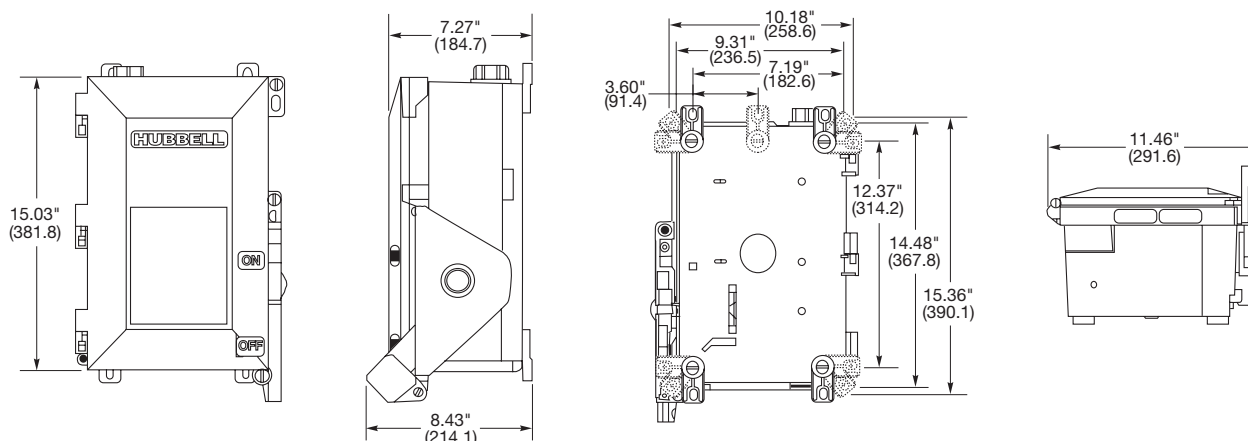
60A Units supplied with two 1¼ in. N.P.T. raintight conduit fittings.

^Δ Package of 10 feet and 10 screws.



HBLRFT2

Dimensions





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.
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.

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 Liquids).
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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