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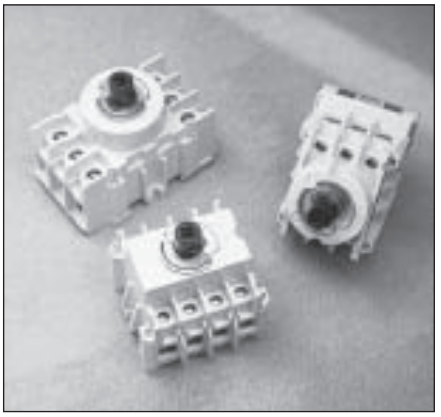
Disconnect Switches

Compact Non-Fusible — Rotary and Toggle

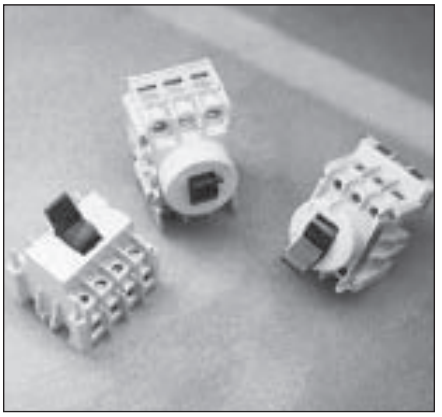
Selection

Features

- 16–250 Ampere, to 100 hp, 480V & 600V
- Rotary and Toggle actuation models
- LBR Type switches are padlockable in the OFF position and are UL & CUL listed under File No. E191706 as manual motor controllers per UL Standard UL508
- 3LD2 Type switches are padlockable in the OFF position and are UL listed under File No. E47705 per UL508 and are CSA certified under File No. 203576
- Base, DIN-rail and door mounting
- Multiple conductor, distribution terminal type rating LBR & LBT Type (40A -100A only)
- IEC 947-1 rated, CE marked
- Listed and marked "suitable as motor disconnect" per NEC Section 430-109



Type LBR Rotary Switches



Type LBT Toggle Switches

3LD2254-0TK51

Application

Siemens Load Break Switches are listed as manual motor controllers and are suitable as motor disconnects. They are load break rated and act as enclosure disconnects when short circuit protection is provided upstream of the switch. If upstream over current protection is not provided, use a Siemens fusible Type VBII, CFS or MCS Disconnect Switch.

Ordering Information

Door Mounted Switches (Rotary Type Only) — Order either complete "3LD2" assemblies or individual "LBR" components as follows:

Complete Assemblies include switch, handle, and shaft. Certain 25 and 32A assemblies are also available with factory installed neutral blocks and/or aux. contacts. These accessories can also be ordered as field installed kits.

Individual Components are ordered as follows:

25A — LBR3025D switch + LBRH3 or 4 handle.

40–100A — LBR switch + LBRH3 or 4 handle + LBRD1.

Notes: (LBR Type switches only)

1. Aux contacts are available as field installed kits on 25A units only.
2. Lugs on 25A units face to the rear and lugs on 40–100A units face toward the front.

Base/DIN Rail Mounted Switches (Rotary or Toggle Type) — Order individual components as follows:

Toggle — Order the LBT switch required and a toggle switch cover plate if needed.

Rotary, Base Mounted with Door Mounted Handle — Order "LBR" switch + door mounted handle + shaft + any accessories.

Rotary, Base Mounted with Direct Mounted Handle — Order "LBR" switch + direct mounted handle.

Short Circuit Withstand Ratings

Switch Rating & Type	Max. Line Side Fuse Rating
5kA with Line Side Class H, K, or RK5 Fuses	
25 & 32A 3LD2	80A Max. at 600V AC Max.
63A 3LD2	175A Max. at 600V AC Max.
10kA with Line Side Class H, K, or RK5 Fuses④	
25A LBR	30A Max. at 480V AC Max.
40A, 4P LBR & LBT	60A Max. at 480V AC Max.
40 & 60A, 3P LBR & LBT	100A Max. at 480V AC Max.
80 & 100A LBR & LBT	150A Max. at 480V AC Max.
18kA with Line Side Class J, T, or CC Fuses	
40–100A, 3P LBR & LBT	100A Max. at 480V AC Max.

Note: 3LD2 switches are also rated 5kA at 600V AC Max. when protected by a 3RV motor starter with a FLA rating equal to or less than the switch ampere rating.

Door Mounted Complete Assemblies Operator, Shaft, & Switch) 600V AC Max.②

Shaft Mounted	4 Hole Mounted			AC Horsepower Ratings				
		Number	Ampere	120V	240V		480V	600V
Catalog Number③	Catalog Number③	of Poles	Rating	1Ø	1Ø	3Ø	3Ø	3Ø
—	**3LD2003-1TP53①**	3	16	½	1½	3	7½	10
3LD2154-0TK **3LD2154-1TP** **3LD2154-1TL** **3LD2154-2EP**	**3LD2103-0TK** **3LD2103-1TP** **3LD2103-1TL** **3LD2103-2EP**	3 3① 3 + N 3 + N①	25	2	3	7½	10	15
3LD2254-0TK **3LD2254-1TL**	**3LD2203-0TK** **3LD2203-1TL**	3 3 + N	32	2	3	10	20	20
3LD2555-0TK	**3LD2504-0TK**	3	63	—	10	15	40	50
—	**3LD2704-0TK**	3	100	—	—	30	60	75
—	**3LD2804-0TK**	3	125	—	—	40	75	100

① Includes auxiliary contacts (1 NO and 1 NC).
② Handles are IP65 rated and are also UL listed for Type 1, 4X and 12 applications.
③ Add 51 for a black handle or 53 for a red & yellow handle to the end of the catalog number.
④ 100-250A 3LD2 switches are rated 10kA when protected by 200A Max. Class RK5 fuses.

Disconnect Switches

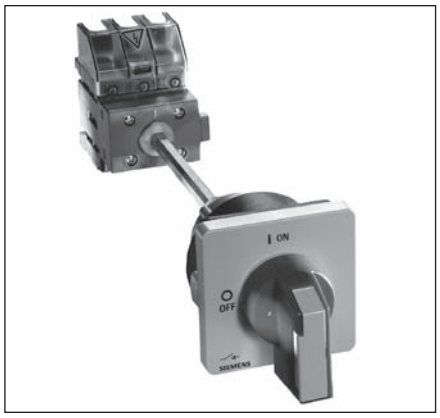
Compact Non-Fusible — Rotary and Toggle

Selection

3LD Type Base Mounted Complete Assemblies

(Operator, Shaft, & Switch) 600V AC Max.②

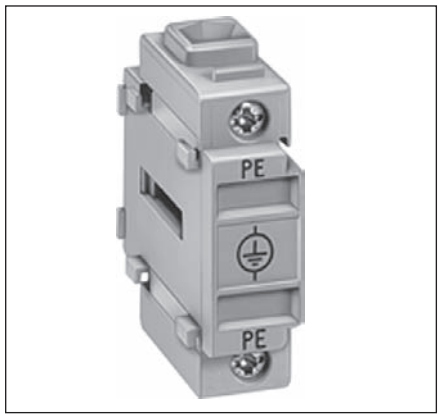
Handle mounting②			Number of Poles	Ampere Rating	AC Horsepower Ratings				
Shaft (center hole)	4 Hole (no defeat)	4 Hole (with defeat)			120V	240V		480V	600V
Catalog Number	Catalog Number	Catalog Number			1Ø	1Ø	3Ø	3Ø	3Ø
—	3LD2013-0TK5_	3LD2017-0TK1	3	16	½	1½	3	7½	10
—	—	3LD2017-1TL1	3 + N						
3LD2144-0TK5	3LD2113-0TK5	—	3	25	2	3	7½	10	15
3LD2144-1TL5	3LD2113-1TL5	—	3 + N						
3LD2244-0TK5	3LD2213-0TK5	3LD2217-0TK1	3	32	2	3	10	20	20
3LD2244-1TL53	3LD2213-1TL53	3LD2217-1TL1	3 + N						
3LD2545-0TK5	3LD2514-0TK5	3LD2517-0TK1	3	63	3	10	15	40	50
—	—	3LD2517-1TL1	3 + N						
—	3LD2714-0TK5	—	3	100	—	—	30	60	75
—	3LD2814-0TK5	—	3	125	—	—	40	75	100
—	3LD2318-0TK1	—	3	160	—	—	40	75	75
—	3LD2318-1TK1⑤	—	3 + N						
—	3LD2418-0TK1	—	3	250	—	—	50	100	75
—	3LD2418-1TK1⑤	—	3 + N						



3LD2217-0TK13

Accessories for Front Mounted 3LD2 Switches

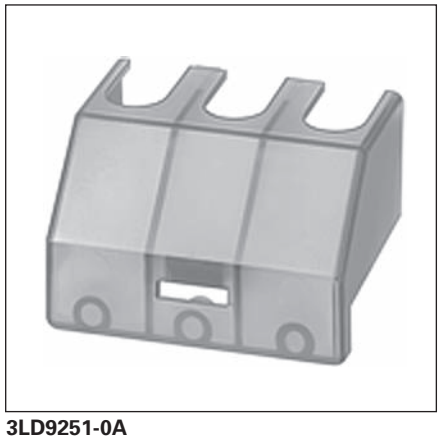
Catalog Number	Description	Switches Used With
3LD9200-5B③	1 NO, 1 NC Aux. Contact	25-125A
3LD9200-5BF③	1 NO, 1 NC Aux. with Gold Plated Contacts	25-125A
3LD9220-2B	Neutral/Ground Terminal	25 & 32A
3LD9250-2BA	Neutral/Ground Terminal	63A
3LD9280-2B	Neutral/Ground Terminal	100 & 125A
3LD9220-0B	4th Pole (leading ON, lagging OFF)	25 & 32A
3LD9250-0BA	4th Pole (leading ON, lagging OFF)	63A
3LD9280-0B	4th Pole (leading ON, lagging OFF)	100 & 125A
3LD9224-1B①	Black Handle (4 hole mtg.)	25 & 32A
3LD9284-1B①	Black Handle (4 hole mtg.)	63-125A
3LD9224-3B①	Red/Yellow Handle (4 hole mtg.)	25 & 32A
3LD9284-3B①	Red/Yellow Handle (4 hole mtg.)	63-125A
3LD9224-1D①	Black Handle (shaft mtg.)④	25 & 32A
3LD9284-1D①	Black Handle (shaft mtg.)④	63-125A
3LD9224-3D①	Red/Yellow Handle (shaft mtg.)④	25 & 32A
3LD9284-3D①	Red/Yellow Handle (shaft mtg.)④	63-125A
3LD9221-2A①	Terminal Cover 1P (Pack of 4)	25 & 32A
3LD9221-0A①	Terminal Cover 3P (Pack of 4)	25 & 32A
3LD9251-0A①	Terminal Cover 3P (Pack of 4)	63A



3LD9220-2C

Accessories for Base Mounted 3LD2 Switches

3LD9200-5C③	1 NO, 1 NC Aux. Contact	25-250A
3LD9200-5CF③	1 NO, 1 NC Aux. with Gold Plated Contacts	25-250A
3LD9220-2C	Neutral/Ground Terminal	25 & 32A
3LD9250-2CA	Neutral/Ground Terminal	63A
3LD9280-2C	Neutral/Ground Terminal	100 & 125A
3LD9240-2C	Neutral/Ground Terminal	160 & 250A
3LD9220-0C	4th Pole (leading ON, lagging OFF)	25 & 32A
3LD9250-0CA	4th Pole (leading ON, lagging OFF)	63A
3LD9280-0C	4th Pole (leading ON, lagging OFF)	100 & 125A
3LD9240-0C	4th Pole (leading ON, lagging OFF)	160 & 250A
3LD9224-1B①	Black Handle (4 hole mtg. no defeat)	25 & 32A
3LD9284-1B①	Black Handle (4 hole mtg. no defeat)	63-125A
3LD9224-3B①	Red/Yellow Handle (4 hole mtg. no defeat)	25 & 32A
3LD9284-3B①	Red/Yellow Handle (4 hole mtg. no defeat)	63-125A
3LD9224-1D①	Black Handle (shaft mtg.)	25 & 32A
3LD9284-1D①	Black Handle (shaft mtg.)	63-125A
3LD9224-3D①	Red/Yellow Handle (shaft mtg.)	25 & 32A
3LD9284-3D①	Red/Yellow Handle (shaft mtg.)	63-125A
3LD9221-2A①	Terminal Cover 1P (Pack of 4)	25 & 32A
3LD9221-0A①	Terminal Cover 3P (Pack of 4)	25 & 32A
3LD9251-0A①	Terminal Cover 3P (Pack of 4)	63A



3LD9251-0A

Note: 3LD2 shaft lengths allow the following maximum enclosure depths from the switch mounting surface to the outside of the cover:

16-32A, 15.25"
63-125A, 15.75"
160 & 250A, 23.70"

① Handles and line side terminal covers are supplied as standard with 3LD2 switches.
② Add suffix 1 for a black or 3 for a red & yellow handle to the catalog number (except 3LD2244-1TL53 & 3LD2213-1TL53). Handles are IP65 rated and are also listed by UL for Type 1, 4X and 12 applications.
③ Aux. contacts break about 30 Ms before and make about 3 Ms after main switch contacts.
Ratings 10A at 120V AC
6A at 240V AC
1.4A at 480V AC
④ Can be used as replacement handles on enclosed 3LD2 switches.
⑤ Base mounted switches with direct mount handles are also available (3LD2330-0TK1 _② rated 160A and 3LD2430-0TK1_② rated 250).

Individual Components

Rotary and Toggle Switches

Catalog Number	Switch Type	No. of Poles	Ampere Rating	Max AC Volt	AC Horsepower Ratings 115V 1Ø	240V 1Ø	240V 3Ø	480V 3Ø	600V 3Ø
LBR3025	Rotary	3	25	480	¾	2	5	10	—
LBR3025D⑥	Rotary	3	25	480	¾	2	5	10	—
LBR3040⑦	Rotary	3	40	600	2	3	7½	20	25
LBR3060⑦	Rotary	3	60	480	2	5	10	25	—
LBR3080⑦	Rotary	3	80	600	3	10	20	40	50
LBR3100⑦	Rotary	3	100	480	5	15	25	50	—
LBR4040	Rotary	4	40	480	2	3	7½	20	—
LBT3040	Toggle	3	40	600	2	3	7½	20	25
LBT3060	Toggle	3	60	480	2	5	10	25	—
LBT3080	Toggle	3	80	600	3	10	20	40	50
LBT3100	Toggle	3	100	480	5	15	25	50	—
LBT4040	Toggle	4	40	480	2	3	7½	20	—

Standard Duty Rotary Switch Door Handles

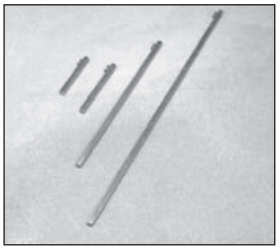
Heavy Duty Rotary Switch Door Handle

LBR Type Handles

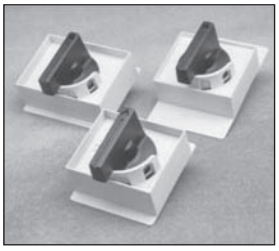
Catalog Number	Used on Rotary Switches	NEMA Type	Mounting	Marking	Color	Cover Interlock Supplied	Padlockable
Standard Duty							
LBRH2②	All	1	Door	ON/OFF	Black	No	No
LBRH3②	All	1, 3R, 12, 4X	Door	O/I, ON/OFF	Black	Yes①	Yes
LBRH4②	All	1, 3R, 12, 4X	Door	O/I, ON/OFF	Red/Yel	Yes①	Yes
LBRH9②	All (Pistol Grip Type)	1, 3R, 12, 4X	Door	O/I, ON/OFF	Black	Yes	Yes
LBRH10②	All (Pistol Grip Type)	1, 3R, 12, 4X	Door	O/I, ON/OFF	Red/Yel	Yes	Yes
LBRH5	25 Amps	1	Direct Mount	O/I	Black	—	Yes
LBRH6	3-Pole, 40-60 Amps	1	Direct Mount	O/I	Black	—	Yes
LBRH7	3-Pole, 80-100 Amps	1	Direct Mount	O/I	Black	—	Yes
LBRH8	4-Pole, 40-60 Amps	1	Direct Mount	O/I	Black	—	Yes
Heavy Duty							
CFSH10B12	All	1, 3R, 12	Door	O/I, ON/OFF	Black	Yes	Yes
CFSH10R12	All	1, 3R, 12	Door	O/I, ON/OFF	Red/Yel	Yes	Yes

LBR Type Rotary Shafts

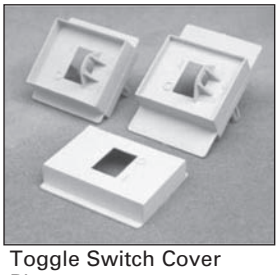
Catalog No	Length In. (mm)
For Standard Duty Handles	
LBRS040	1.57 (40)
LBRS050	1.97 (50)
LBRS055	2.17 (55)
LBRS080	3.15 (80)
LBRS120	4.72 (120)
LBRS180	7.09 (180)
LBRS305	12.00 (305)
For Heavy Duty Handles	
CFSS5200H	7.9 (200)
CFSS5400H	15.7 (400)



Rotary Shafts



Rotary Switch Direct Mount Handles



Toggle Switch Cover Plates

25 Amp, 4th Pole

Used on Catalog No	Catalog Number
LBR3025	**LBRP25**
LBR3025D	**LBRP25D**

Auxiliary Switch Kits

Used on Rotary Switch	Catalog Number	Contact Arrangement
LBR3025	**LBRA25**③④	1 NO & 1 NC
LBR3025D	**LBRA25D**③④	1 NO & 1 NC
LBR3040, LBR3060	**LBRA1**③④	1 NO/1 NC with common point
LBR3080, LBR3100	**LBRA2**③④	1 NO/1 NC with common point

LBR Type Toggle Switch Cover Plate

Used on Toggle Switches	Catalog Number
LBT3040, LBT3060	**LBTCP1**
LBT3080,LBT3100	**LBTCP2**
LBT4040	**LBTCP3**

LBR Type Rotary Switch Door Mounting Kit (For use with LBRH3 & LBRH4 only)

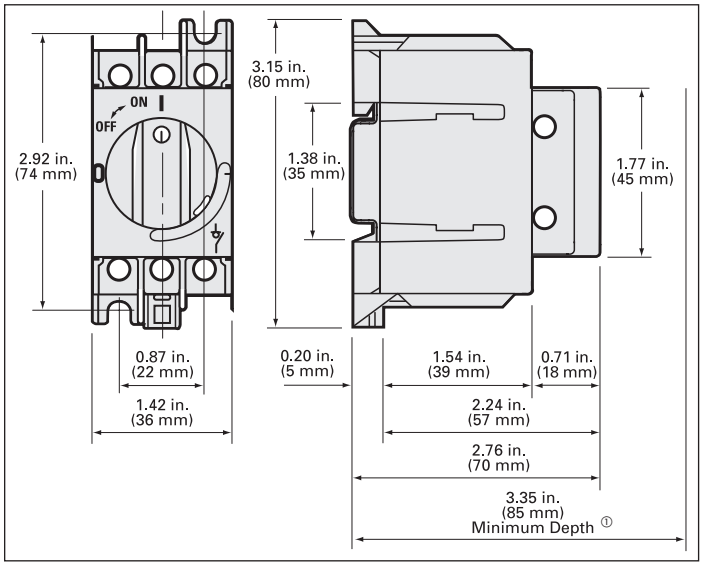
Used on Rotary Switch	Catalog Number
40-100 Amps	**LBRD1**

LBR/LBT Neutral Kit⑤

Used with Catalog Number	Catalog Number
All	**HF63CX**

① No cover interlock defeat mechanism provided. To eliminate cover interlock, order additional catalog number LBRDC1.
② LBRH2 is IP54 rated. All others are IP65.
③ Ratings
15.1A resistive at 250V AC max.
.5A at 125V DC
.25A at 250V DC
.5 HP at 250V AC max.
④ Auxiliary switch contacts break about 30 Ms before and make about 3 Ms after main switch contacts.
⑤ Lug wire ranges:
HF63CX—(1) #14-2 AWG 60/75°C Cu only
⑥ Only door mountable and for use with LBRH3 & 4 handles only.
⑦ For door mounting of 40–100A LBR switches use door mounting kit LBRD1 & LBRH3 or 4 handle.

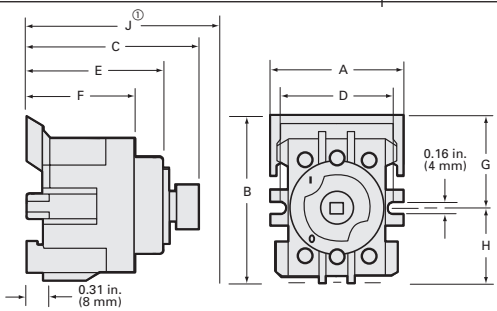
Dimension Drawings and Wire Ranges



LBR 3025

Dimension J Minimum Depth①

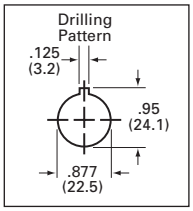
Switch	Dimension J
LBR 40-100A	3.35 (85)
3LD2 25 & 32A Front Shaft Mounted	3.07 (78)
3LD2 63 Front Shaft Mounted	3.35 (85)
3LD2 16-32A Front 4-hole Mounted	2.13 (54)
3LD2 63A Front 4-hole Mounted	2.48 (63)
3LD2 100 & 125A Front 4-hole Mounted	2.56 (65)
3LD2 25 & 32A Base w/shaft Mtg. Handle	6.46 (164)
3LD2 63A Base w/shaft Mtg. Handle	6.77 (172)
3LD2 16-32A Base w/4-hole Mtg. Handle	5.59 (142)
3LD2 63A Base w/4-hole Mtg. Handle	5.99 (152)
3LD2 100-250A Base w/4-hole Mtg. Handle	6.07 (154)



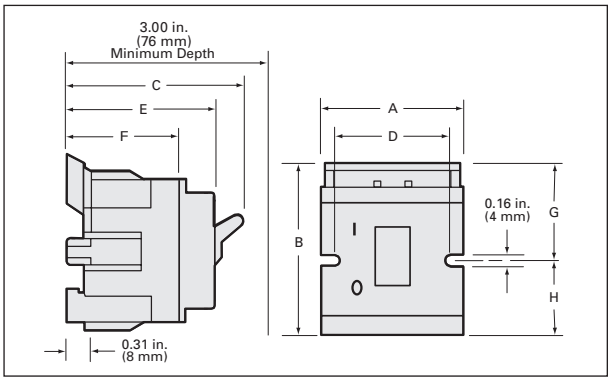
LBR 40-100 Amps & 3LD2 16-250A

Wire Ranges 60/75°C Cu only

25 Amps LBR	(1) #14 - #10 AWG Solid (1) #14 - #8 AWG Stranded
40 & 60 Amps LBR & LBT	(1) #14 - #10 AWG Solid (1) #14 - #4 AWG Stranded UP to (4) #12 AWG Solid Up to (3) #12 AWG Stranded Up to (6) #14 AWG Stranded Up to (4) #14 AWG Stranded with (1) #10 AWG Stranded
80 & 100 Amps LBR & LBT	(1) #14 - #10 AWG Solid (1) #14 - #1 AWG Stranded (2) #6 AWG Stranded Up to (3) #8 AWG Stranded Up to (6) #10 AWG Stranded Up to (6) #12 AWG Solid
16A, 3LD20 25A, 3LD21 32A, 3LD22 63A, 3LD25 100, 125A, 3LD2 160, 250A, 3LD2	(1) #18-10 AWG (1) #14-8 AWG (1) #14-8 AWG (1) #14-6 AWG (1) #12-1 AWG (1) #1-400 MCM



Shaft Mounted 3LD2 Handle Cutout



LBT Toggle — 40-100 Amps

Switch Type	Switch Catalog Number	Dimensions Inches (mm) A	B	C	D	E	F	G	H
Rotary	**LBR3040**	2.00 (51)	2.72 (69)	2.72 (69)	1.78 (45)	2.16 (55)	1.67 (42)	1.50 (38)	1.22 (31)
Rotary	**LBR3060**	2.00 (51)	2.72 (69)	2.72 (69)	1.78 (45)	2.16 (55)	1.67 (42)	1.50 (38)	1.22 (31)
Rotary	**LBR3080**	2.09 (53)	3.32 (84)	2.92 (74)	1.97 (50)	2.29 (58)	1.69 (42)	1.66 (42)	1.66 (42)
Rotary	**LBR3100**	2.09 (53)	3.32 (84)	2.92 (74)	1.97 (50)	2.29 (58)	1.69 (42)	1.66 (42)	1.66 (42)
Rotary	**LBR4040**	2.42 (61)	2.72 (69)	2.72 (69)	2.28 (58)	2.16 (55)	1.67 (42)	1.50 (38)	1.22 (31)
Rotary Front Mtg.	**3LD20②**	1.89 (48)	1.97 (50)	1.97 (50)	—	—	—	—	—
Rotary Front Mtg.	**3LD21 & 2②**	1.81 (46)	2.17 (55)	1.97 (50)	—	—	—	—	—
Rotary Front Mtg.	**3LD25②**	2.36 (60)	2.52 (64)	2.32 (59)	—	—	—	—	—
Rotary Front Mtg.	**3LD27 & 8②**	2.40 (61)	3.27 (83)	2.40 (61)	—	—	—	—	—
Rotary Base Mtg.	**3LD20②**	1.89 (48)	1.97 (50)	2.29 (58)	—	—	—	—	—
Rotary Base Mtg.	**3LD21 & 2②**	1.81 (46)	2.17 (55)	2.29 (58)	—	—	—	—	—
Rotary Base Mtg.	**3LD25②**	2.36 (60)	2.52 (64)	2.68 (68)	—	—	—	—	—
Rotary Base Mtg.	**3LD27 & 8②**	2.80 (71)	3.27 (83)	2.76 (70)	—	—	—	—	—
Rotary Base Mtg.	**3LD23 & 4**	4.41 (112)	5.83 (148)	4.10 (104)	—	—	—	—	—
Toggle	**LBT3040**	2.00 (51)	2.72 (69)	2.75 (70)	1.78 (45)	2.16 (55)	1.67 (42)	1.50 (38)	1.22 (31)
Toggle	**LBT3060**	2.00 (51)	2.72 (69)	2.75 (70)	1.78 (45)	2.16 (55)	1.67 (42)	1.50 (38)	1.22 (31)
Toggle	**LBT3080**	2.09 (53)	3.32 (84)	2.90 (74)	1.97 (50)	2.29 (58)	1.69 (42)	1.66 (42)	1.66 (42)
Toggle	**LBT3100**	2.09 (53)	3.32 (84)	2.90 (74)	1.97 (50)	2.29 (58)	1.69 (42)	1.66 (42)	1.66 (42)
Toggle	**LBT4040**	2.42 (61)	2.72 (69)	2.75 (70)	2.28 (58)	2.16 (55)	1.67 (42)	1.50 (38)	1.22 (31)

① Depth from outside of cover to back of switch.

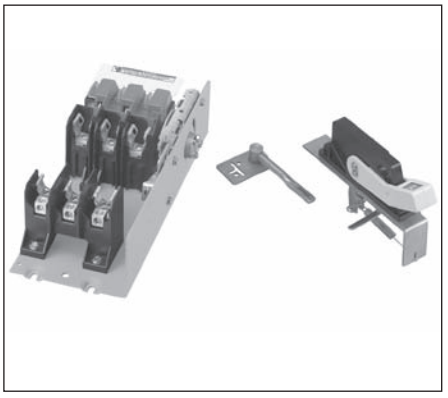
② Handle front plate dimensions:
3LD 16-32A—2.64 inches square
3LD 63-125—3.55 inches square

Disconnect Switches

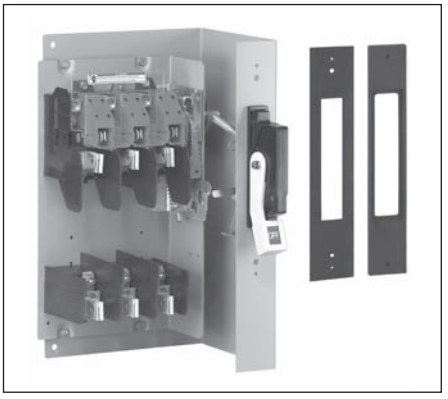
Type VBII (30-600A) with Flange Mounted Operating Handle *Features and Ordering Information*

Features

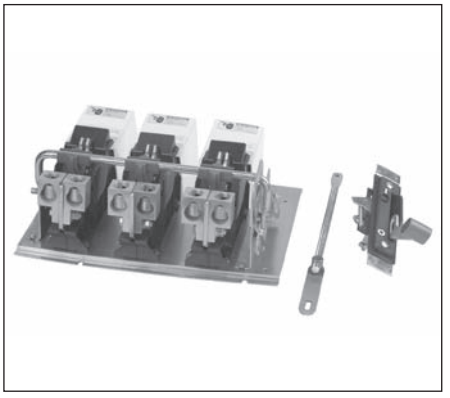
- 30-600A, 600VAC and DC ratings
- 240 & 600V AC switches are UL Recognized under file number E121152, Vol. 3 and CSA certified under file number 154852
- 600V DC Photovoltaic switches are UL Recognized under file number E335018, Vol. 3 and are rated to switch 3 separate 600V DC circuits
- Visible blade quick make and break switching action
- Panel and Flange mounted assemblies facilite installation
- Panel mounted switches are variable depth
- Short circuit rating of 10,000 AIC with class H fuse, and of 200,000 AIC with class R or J fuses. PV switches are rated 10,000 AIC at 600V DC with 600V DC rated class K, J or R fuses.
- Flange mounted handles rated as Type 1, 3R & 12 or 4X are padlockable in the off position with up to (3) padlocks with 5/16 hasps
- Meets UL98 requirements and suitable for both main and branch circuit applications
- A complete line of aux contacts are available
- Load break and horsepower rated
- Defeatable cover interlock standard with all handles
- Meets NFPA79 requirements
- Seismic qualified — complies with the 2010 California Building Code (CBC) — and with the International Building Code (IBC) — Compliance Level SDS = 1.85 g



VBFS361, VBLK1 & VBH1



VBFS363F



VBNFS365, VBLK4 & VBH2

Ordering Information

1. Determine the ratings required (amps, volts, HP, Fusible, NF), the mounting needed (Panel or Flange), and select the appropriate switch.
2. For panel mounted switches with a rigid operating shaft (30-600A), order panel mounted switch, flange mounted operating handle & rigid linkage kit based on depth required.
3. For panel mounted switches with a Max-Flex operator, order panel mounted switch, Max-Flex Handle & Adapter Kit and drive cable.
4. Select accessories if required.

Disconnect Switches

Type VBII (30-600A) with Flange Mounted Operating Handle

Selection

Switches—for Standard 600V Max AC or DC Applications

Switch Ampere Rating	Max. AC Voltage Rating	Catalog Number	Horsepower Rating, Switches and 3-Phase④						600 Volts DC (max)④
			240 Volts AC		480 Volts AC		600 Volts AC		
			Standard	Max.	Standard	Max.	Standard	Max.	
Fusible Panel Mounted Variable Depth Switches - 3-Pole⑤									
30	240	**VBFS321**	3	7 1/2	—	—	—	—	— ①
60	240	**VBFS322**	7 1/2	15	—	—	—	—	— ②
30	600	**VBFS361**	—	—	5	15	7 1/2	20	15 ③
60	600	**VBFS362**	—	—	15	30	15	50	30 ③
100	600	**VBFS363**	—	—	25	60	30	75	50 ③
200	600	**VBFS364**	—	—	50	125	60	150	50
400	600	**VBFS365**	—	—	100	250	125	350	— ⑨
600	600	**VBFS366**	—	—	150	400	200	500	— ⑨
Non-fusible Panel Mounted Variable Depth Switches - 3-Pole!⑤									
30	600	**VBNFS361**	—	10	—	20	—	30	15 ③
60	600	**VBNFS362**	—	20	—	50	—	60	30 ③
100	600	**VBNFS363**	—	40	—	75	—	100	50 ③
200	600	**VBNFS364**	—	60	—	125	—	150	50
400	600	**VBNFS365**	—	125	—	250	—	300	— ⑨
600	600	**VBNFS366**	—	200	—	400	—	500	— ⑨
Fusible Flange Mounted Switches - 3-Pole⑥									
30	240	**VBFS321F**	3	7 1/2	—	—	—	—	— ①
60	240	**VBFS322F**	7 1/2	15	—	—	—	—	— ②
30	600	**VBFS361F**	—	—	5	15	7 1/2	20	15 ③
60	600	**VBFS362F**	—	—	15	30	15	50	30 ③
100	600	**VBFS363F**	—	—	50	60	30	75	50 ③
200	600	**VBFS364F**	—	—	100	125	60	150	50
Non-fusible Flange Mounted Switches – 3-Pole⑥									
30	600	**VBNFS361F**	—	10	—	20	—	30	15 ③
60	600	**VBNFS362F**	—	20	—	50	—	60	30 ③
100	600	**VBNFS363F**	—	40	—	75	—	100	50 ③
200	600	**VBNFS364F**	—	60	—	125	—	150	50

Note: Fusible switches include fuse provisions for Class H Fuses. The load base can be moved to pre-drilled holes for Class J Fuses on all 600V switches. If Class R Fuses are required, add a Class R Fuse Clip Kit.

Switches—for Photovoltaic Applications, 600VDC Max.⑦

(for use in negative ground systems only)

Switch Ampere Rating	Catalog Number	Rated Isc per NEC Article 690
Fusible Panel Mounted Variable Depth Switches—3 Pole⑤⑧		
30	**VBFS361PV**	19.2A
60	**VBFS362PV**	38.4A
100	**VBFS363PV**	64.0A
Non-Fusible Panel Mounted Variable Depth Switches—3 Pole⑤		
30	**VBNFS361PV**	24.0A
60	**VBNFS362PV**	48.0A
100	**VBNFS363PV**	80.0A
Fusible Flange Mounted Variable Depth Switches—3 Pole (Includes Type 1, 3R and 12 Rated Operating Handle)⑥⑧		
30	**VBFS361FPV**	19.2A
60	**VBFS362FPV**	38.4A
100	**VBFS363FPV**	64.0A
Non-Fusible Flange Mounted Variable Depth Switches—3 Pole (Includes Type 1, 3R and 12 Rated Operating Handle)⑥		
30	**VBNFS361FPV**	24.0A
60	**VBNFS362FPV**	48.0A
100	**VBNFS363FPV**	80.0A

Max-Flex™ Handle and Adapter Kit

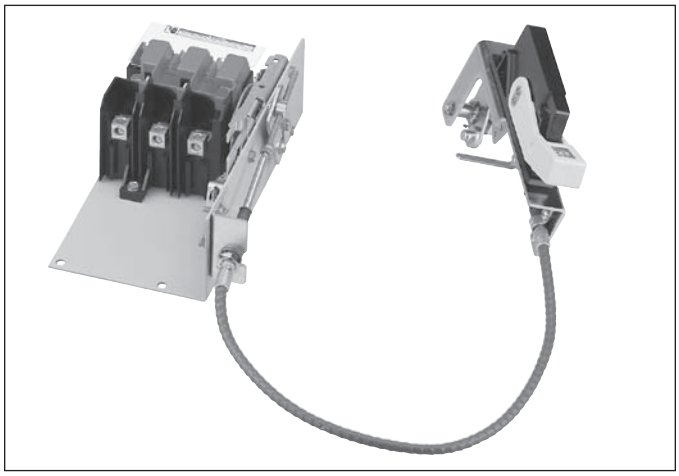
(Type 1, 12, 3R & 4X) Use with 30-200A panel mounted switches and cable kit.

Catalog Number	Description
VBHM1	30-200A Max-Flex Adapter Kit

Cable Kit

For use with 30-200A panel mounted switches and Max-Flex handle and adapter kit.

Catalog Number	Description
FHOEC036	36" long drive cable
FHOEC048	48" long drive cable



VBNFS361, VBHM1 & FHOEC036

① Rated 5 HP at 250V DC.
② Rated 10 HP at 250V DC.
③ 600V DC & 600V DC horsepower rating shown requires (2) poles to be connected in series.
④ Std. - applies when non-time delay fuses are used. Max. - applies when time delay fuses are used.
⑤ Includes line base, load base, operating mechanism and line and load lugs. Order operating handle and linkage kits from tables on pages 5-7 or 5-8.
⑥ Includes line base, load base, operating mechanism line and load lugs plastic operating handle and required linkage.
⑦ All photovoltaic switches are rated to be used with 3 separate 600V DC circuits.
⑧ Fusible switches accept Class K or R fuses as standard and Class J fuses by relocating the load base.
⑨ Rated 250V DC max and 50HP at 250V DC.

Flange Mounted Operating Handles

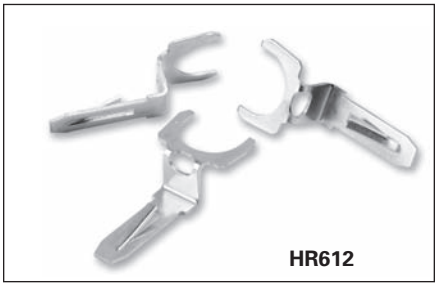
For use with Panel Mounted Switches. Plastic handle is included with Flange Mounted Switches as standard.

Catalog Number	Operating Handle Description
Plastic Handles	
VBH1	30-200A Type 1, 3R & 12
VBH14X	30-200A Type 4X
Metal Handles	
VBH112	30-200A Type 1, 3R & 12
VBH14	30-200A Type 4X
VBH2	400A Type 1 & 12
VBH2R	400 & 600A Type 1, 3R & 12
VBH24X	400 & 600A Type 4X

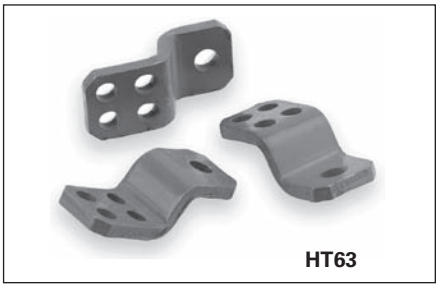
Rigid Linkage Kits

For use with Panel Mounted Switches. Not required for Flange Mounted Switches.

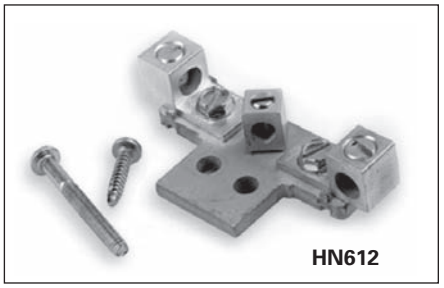
Catalog Number	Switch Ampere Rating	Enclosure Depth①	
		Min	Max.
VBLK1	30-200	6.94②	6.94②
VBLK2	30-200	6.94②	19.0
VBLK3	400 & 600	9.00	8.75
VBLK4	400 & 600	9.00	19.0



HR612



HT63



HN612

Class R Fuse Clip Kits

These kits prevent the installation of Class H and K fuses (one kit required per switch).

Class R Fuse Clip Kits

Catalog Number	Description
HR21	30A, 240V Kit (HD only)
HR612	30A, 600V Kit/60A, 240V Kit
HR62	60A, 600V Kit
HR63	100A Kit
HR64	200A Kit
HR656	400A/600A Kit

Internal Door Latch Kits

For use with enclosures with door mounted latching bar. Required when a flange mounted switch is mounted in a Hoffmann or Rittal enclosure provided with an AB cutout.

Catalog Number	Description
DKR2	2 point (for use with enclosures less than 40" high)
DKR3	3 point (for use with enclosures 40" or larger in height)

Class T Fuse Adapter Kits

100-600A fusible switches are field convertible to accept Class T fuses. 400-600A switches are field convertible to accept Class T fuses by moving the load base to a pre-drilled T fuse position.

Class T Fuse Adapter Kits③

Catalog Number	Description
HT23	100A, 240V Kit
HT63	100A, 600V Kit
HT24	200A, 240V Kit
HT64▲	200A, 600V Kit

Class J Fuse Provisions

All 30-600A, 600V fusible switches are field convertible to accept Class J fuses by moving the load base to a pre-drilled J fuse position.

Window Kits (Type 1, 12, 3R and 4x)

Allows viewing of visible blades and of indicating fuses through 200A.

Catalog Number	Description
VBWK1	30A Window Kit
VBWK2	60 & 100A Window Kit
VBWK3	200-600A Window Kit

Neutral Kits④

Standard Neutral Kits can be field installed in 30-100A switches.

Neutral Kits

Switch Ampere Rating	Kit Catalog Number
30A 600V, 60A 240V	**HN612**
60A, 600V & 100A	**HN623**

200% Neutral Kits④

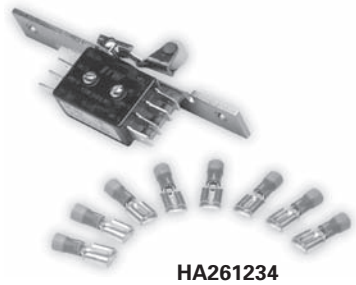
UL listed 200% Neutrals are available on 60 & 100A switches. They are typically used with non-linear transformers or where increased neutral ampacity/lug capacity is required.

200% Neutral Kits

Switch Ampere Rating	Kit Catalog Number	Wire Range Line & Load Lugs (Cu/Al)
60 & 100A	**HN263**	(2) #14-1/0 AWG

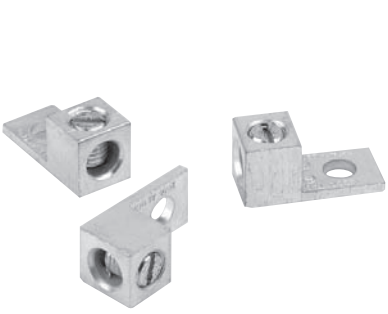
▲ Built to order. Allow 6–8 weeks for delivery.
① Dimensions (min. & max.) from enclosure mounting pan to outside surface of enclosure handle mounting flange.
② 7.12 for 200A switches.
③ One kit per pole required.
④ UL approved (not CSA certified).

HA161234



HA261234

HP61



HLC612

Auxiliary Contacts

The auxiliary contacts are available in 1 normally open and 1 normally closed or 2 normally open and 2 normally closed configurations. Siemens offers a PLC Auxiliary Switch (30-200A) that has very low resistance for low voltage and current typical in PLC circuits. All auxiliary contacts make after and break before main switch contacts.

Switch Ampere Rating	Aux. Switch Catalog Number	Kit Ampere Rating			Kit Horsepower Rating		
		125V AC Max.	250V AC Max.	28V DC Max.	125V AC Max.	250V AC Max.	28V DC Max.
With 1 NO & 1 NC Isolated Contacts							
30-200	**HA161234**	10	10	—	1/2	3/4	—
400-600	**HA165678**	10	10	—	1/2	3/4	—
With 2 NO & 2 NC Isolated Contacts							
30-200	**HA261234**	10	10	7	1/2	3/4	—
400-600	**HA265678**	10	10	7	1/2	3/4	—
Low Current PLC Type with 1 NO & 1 NC Gold Plated Contacts							
30-200	**HA361234**	10	10	—	1/2	3/4	—
400-600	**HA365678**	10	10	—	1/2	3/4	—

Fuse Puller Kits

Fuse Puller Kits are field installable in 30-100A Type VBII Heavy Duty Switches (one kit required per 3-pole switch).

Switch Ampere Rating	Fuse Puller Kit Catalog Number
30	**HP61**
60	**HP62▲**
100	**HP63▲**

Copper Lug Kits

All switches are UL approved to accept field installed copper lug kits.

Switch Ampere Rating	Copper Lug Catalog Number	Description
30–60	**HLC612**	(9) Lugs/Kit #14-4 AWG Cu
100	**HLC63▲**	(9) Lugs/Kit #14-1/0 AWG Cu
200	**HLC64▲**	(9) Lugs/Kit #6 AWG-300 Kcmil Cu
400–600A	**HLC65678**	(1) Lugs/Kit #1/0 AWG-600 Kcmil Cu

Equipment Ground Kits

Equipment Ground Lug Kits are available for all switches.

Switch Ampere Rating	Catalog Number	Number of Terminals	Wire Range Per Terminal (Cu/Al)
30–200	**HG61234**	2	#14-4 AWG
400 & 600	**HG656**	4	#6 AWG-250 Kcmil

NEW Internal Shield Kits (for fusible switches)

Kits provide a "skirt" that encloses the VBII switch and also a clear plastic inner door to prevent accidental contact with live parts. Test probe holes are provided and fuses can be replaced without removal of kit.

(Availability to be announced)

Switch Ampere Rating	Shield Kit Catalog Number
30A	**HSK61**
60-100A	**HSK623**
200A	**HSK64**

▲ Built to order. Allow 6–8 weeks for delivery.

Lugs

30 & 60A switches are suitable for use with 60° or 75°C wire. 100–600A switches are suitable for use with 75°C rated wire. All switches are supplied with factory installed line and load lugs.

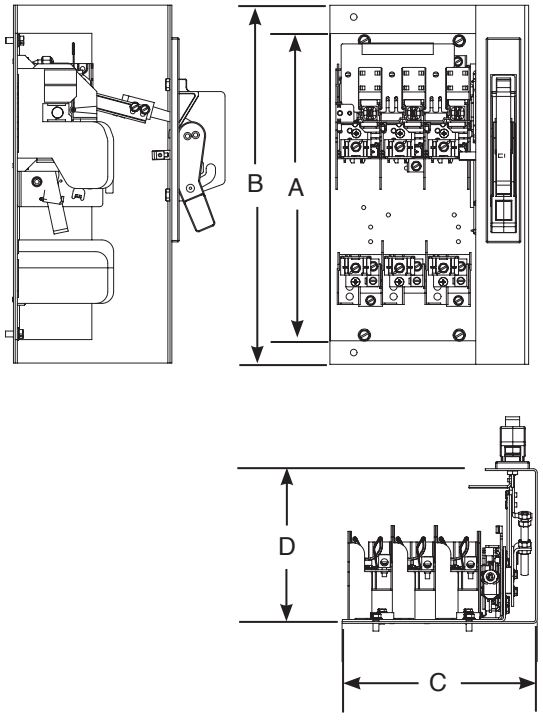
Wire Ranges (Line, Load and Standard Neutral)

Switch Ampere Rating	UL Approved Wire Range	Lug Wire Range
30	#14-6 AWG (Cu/Al)	#14-2 AWG (Cu/Al)
60	#14-2 AWG (Cu/Al)	#14-2 AWG (Cu/Al)
100	#14-1/0 AWG (Cu/Al)	#14-1/0 AWG (Cu/Al)
200	#6 AWG-300 Kcmil (Cu/Al)	#6 AWG-300 Kcmil (Cu/Al)
400	1/0 AWG-750 Kcmil (Cu/Al) or (2) 1/0 AWG-250 Kcmil (Cu/Al)	(1) 1/0 AWG-750 Kcmil (Cu/Al) or (2) 1/0 AWG-250 Kcmil (Cu/Al)
600	(2) 1/0 AWG-750 Kcmil (Cu/Al) or (4) 1/0 -250 Kcmil (Cu/Al)	(2) 1/0 AWG-750 Kcmil (Cu/Al) or (4) 1/0 AWG-250 Kcmil (Cu/Al)

Approximate Dimensions

Mounting bracket shown with handle installed is supplied with Flange Mounted Switches only. All Panel Mounted Switches have a "L" shaped mounting pan with a line base, load base (if fusible) and mechanism installed.

Catalog Number	Dimensions				
	A	B	C①	D (min)	D (max)
Fusible, Panel Mounted					
VBFS321	11.88	N/A	7.47	6.94	19
VBFS322	13.12	N/A	8.50	6.94	19
VBFS361, PV	11.88	N/A	7.47	6.94	19
VBFS362, PV	13.12	N/A	8.50	6.94	19
VBFS363, PV	13.12	N/A	8.50	6.94	19
VBFS364	17	N/A	12.33	7.12	19
VBFS365	26.25	N/A	16.50	8.63	19
VBFS366	26.25	N/A	16.50	8.63	19
Non-fusible, Panel Mounted					
VBNFS361, PV	9.79	N/A	7.47	6.94	19
VBNFS362, PV	9.79	N/A	8.50	6.94	19
VBNFS363, PV	9.79	N/A	8.50	6.94	19
VBNFS364	10.77	N/A	12.33	7.12	19
VBNFS365	13	N/A	16.50	8.63	19
VBNFS366	13	N/A	16.50	8.63	19
Fusible, Flange Mounted					
VBFS321F	11.88	14.08	7.47	7.27	N/A
VBFS322F	13.12	15.83	8.85	7.27	N/A
VBFS361F, PV	11.88	14.08	7.47	7.27	N/A
VBFS362F, PV	13.12	15.83	8.85	7.27	N/A
VBFS363F, PV	13.12	15.83	8.85	7.27	N/A
VBFS364F	17	18.20	12.68	7.57	N/A
Non-fusible, Flange Mounted					
VBNFS361F, PV	9.79	11.78	7.47	7.27	N/A
VBNFS362F, PV	9.79	11.78	8.85	7.27	N/A
VBNFS363F, PV	9.79	11.78	8.85	7.27	N/A
VBNFS364F	10.77	11.97	12.68	7.57	N/A



① Dimension C for panel mounted switches indicates the minimum width from the left hand edge of the switch mounting pan to the right hand inside surface of the enclosure.