

## Contents

---

**Compact Non-Fusible Switches**

|                                    |           |
|------------------------------------|-----------|
| Rotary and Toggle Switch—Selection | 5-2 – 5-4 |
| Dimensions and Wire Ranges         | 5-5       |

**Type VBII (30-600A)**

|                                   |           |
|-----------------------------------|-----------|
| Features and Ordering Information | 5-6       |
| Switch and Handle Selection       | 5-7       |
| Accessories                       | 5-8 – 5-9 |
| Dimensions and Lug Wire Ranges    | 5-10      |

**Type MCS (30-200A)**

|                                           |      |
|-------------------------------------------|------|
| Switches, Fuse, and No Fuse Kit—Selection | 5-11 |
| Handle Operators and Accessories          | 5-12 |

**Type CFS Compact Fusible Switches**

|                                          |      |
|------------------------------------------|------|
| Features and Ordering Information        | 5-13 |
| Switch and Handle—Selection              | 5-14 |
| Accessories & 600-800 Handle Selection   | 5-15 |
| Dimensions and Technical Characteristics | 5-16 |

**Type VB Panelboard Units**

|                                    |             |
|------------------------------------|-------------|
| General and Withstand Ratings      | 5-17        |
| Catalog Numbering System           | 5-18        |
| Vacu-Break Fusible Units—Selection | 5-19 – 5-20 |
| Accessories                        | 5-21        |

**Type HCP Switchboard Units**

|                       |      |
|-----------------------|------|
| Selection/Accessories | 5-22 |
| Dimensions            | 5-23 |

|                                                       |             |
|-------------------------------------------------------|-------------|
| <b>Type TFP Fusible Pullouts—Selection/Dimensions</b> | <b>5-24</b> |
|-------------------------------------------------------|-------------|

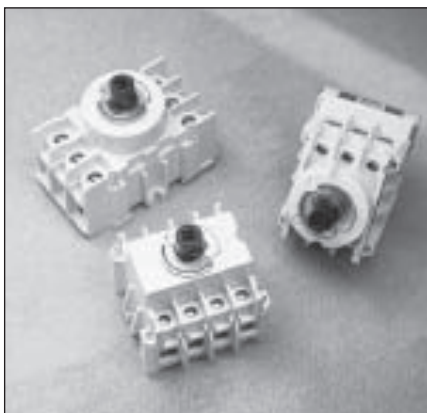
# Disconnect Switches

## Compact Non-Fusible — Rotary and Toggle

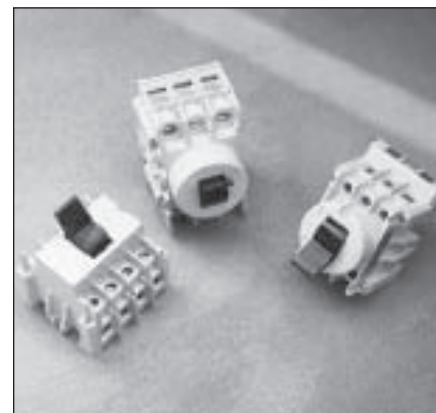
*Selection*

### 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)

- Aux contacts are available as field installed kits on 25A units only.
- 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.

**Door Mounted Complete Assemblies (Operator, Shaft, & Switch) 600V AC Max.<sup>②</sup>**

| Shaft Mounted                                            | 4 Hole Mounted                                           | Number of Poles                                    | Ampere Rating | AC Horsepower Ratings |            |         |         |
|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|---------------|-----------------------|------------|---------|---------|
| Catalog Number <sup>③</sup>                              | Catalog Number <sup>③</sup>                              |                                                    |               | 120V 1Ø               | 240V 1Ø 3Ø | 480V 3Ø | 600V 3Ø |
| —                                                        | 3LD2003-1TP53 <sup>①</sup>                               | 3                                                  | 16            | ½                     | 1½ 3       | 7½      | 10      |
| 3LD2154-0TK<br>3LD2154-1TP<br>3LD2154-1TL<br>3LD2154-2EP | 3LD2103-0TK<br>3LD2103-1TP<br>3LD2103-1TL<br>3LD2103-2EP | 3<br>3 <sup>①</sup><br>3 + N<br>3 + N <sup>①</sup> | 25            | 2                     | 3 7½       | 10      | 15      |
| 3LD2254-0TK<br>3LD2254-1TL                               | 3LD2203-0TK<br>3LD2203-1TL                               | 3<br>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.

### 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 Fuses<sup>④</sup>**

|                        |                           |
|------------------------|---------------------------|
| 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.

# Disconnect Switches

## Compact Non-Fusible — Rotary and Toggle

*Selection*

### 3LD Type Base Mounted Complete Assemblies

(Operator, Shaft, &amp; 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               |               |                       |      |      |      |     |
| —                   | 3LD2318-1TK1⑤      | —                    | 3 + N           | 160           | —                     | —    | 40   | 75   | 75  |
| —                   | 3LD2418-0TK1       | —                    | 3               |               |                       |      |      |      |     |
| —                   | 3LD2418-1TK1⑤      | —                    | 3 + N           | 250           | —                     | —    | 50   | 100  | 75  |

### Accessories for Front Mounted 3LD2 Switches

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

### Accessories for Base Mounted 3LD2 Switches

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

① Handles and line side terminal covers are supplied as standard with 3LD2 switches.

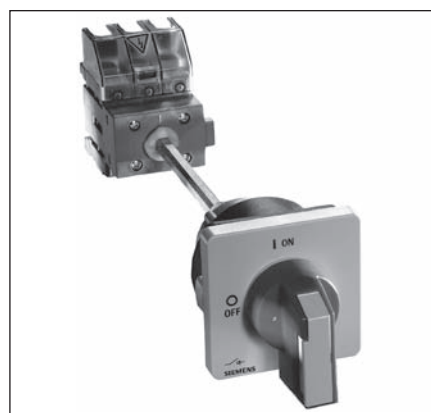
② Add suffix 1 for a black or 3 for a red &amp; yellow handle to the catalog number (except 3LD2244-1TL53 &amp; 3LD2213-1TL53). Handles are IP65 rated and are also listed by UL for Type 1, 4X and 12 applications.

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.

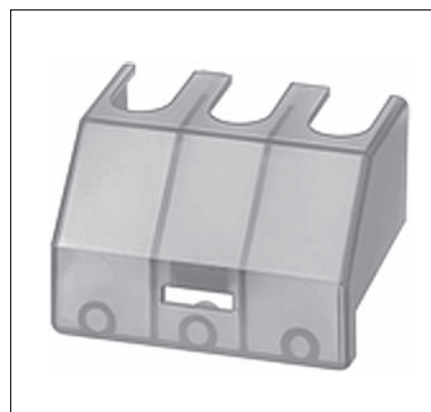
⑤ Base mounted switches with direct mount handles are also available (3LD2330-0TK1\_⑤ rated 160A and 3LD2430-0TK1\_⑤ rated 250).



3LD2217-0TK13



3LD9220-2C



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"

# Disconnect Switches

## Compact Non-Fusible — Rotary and Toggle

*Selection*

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 3Ø | 480V 3Ø | 600V 3Ø |
| LBR3025               | Rotary      | 3            | 25            | 480         | ¾                     | 2          | 5       | 10      |
| LBR3025D <sup>②</sup> | Rotary      | 3            | 25            | 480         | ¾                     | 2          | 5       | 10      |
| LBR3040 <sup>②</sup>  | Rotary      | 3            | 40            | 600         | 2                     | 3          | 7½      | 20      |
| LBR3060 <sup>②</sup>  | Rotary      | 3            | 60            | 480         | 2                     | 5          | 10      | 25      |
| LBR3080 <sup>②</sup>  | Rotary      | 3            | 80            | 600         | 3                     | 10         | 20      | 40      |
| LBR3100 <sup>②</sup>  | 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      |
| LBT3060               | Toggle      | 3            | 60            | 480         | 2                     | 5          | 10      | 25      |
| LBT3080               | Toggle      | 3            | 80            | 600         | 3                     | 10         | 20      | 40      |
| LBT3100               | Toggle      | 3            | 100           | 480         | 5                     | 15         | 25      | 50      |
| LBT4040               | Toggle      | 4            | 40            | 480         | 2                     | 3          | 7½      | 20      |



Standard Duty Rotary Switch Door Handles



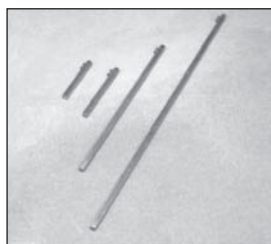
Heavy Duty Rotary Switch Door Handle

### LBR Type Handles

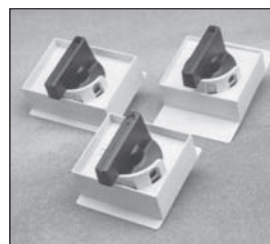
| Catalog Number       | Used on Rotary Switches | NEMA Type     | Mounting     | Marking     | Color   | Cover Interlock Supplied | Padlockable |
|----------------------|-------------------------|---------------|--------------|-------------|---------|--------------------------|-------------|
| <b>Standard Duty</b> |                         |               |              |             |         |                          |             |
| LBRH2 <sup>②</sup>   | All                     | 1             | Door         | ON/OFF      | Black   | No                       | No          |
| LBRH3 <sup>②</sup>   | All                     | 1, 3R, 12, 4X | Door         | O/I, ON/OFF | Black   | Yes <sup>①</sup>         | Yes         |
| LBRH4 <sup>②</sup>   | All                     | 1, 3R, 12, 4X | Door         | O/I, ON/OFF | Red/Yel | Yes <sup>①</sup>         | Yes         |
| LBRH9 <sup>②</sup>   | All (Pistol Grip Type)  | 1, 3R, 12, 4X | Door         | O/I, ON/OFF | Black   | Yes                      | Yes         |
| LBRH10 <sup>②</sup>  | 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         |
| <b>Heavy Duty</b>    |                         |               |              |             |         |                          |             |
| 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

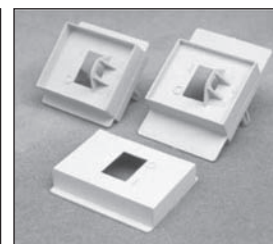
| Catalog No                       | Length In. (mm) |
|----------------------------------|-----------------|
| <b>For Standard Duty Handles</b> |                 |
| LBR5040                          | 1.57 (40)       |
| LBR5050                          | 1.97 (50)       |
| LBR5055                          | 2.17 (55)       |
| LBR5080                          | 3.15 (80)       |
| LBR5120                          | 4.72 (120)      |
| LBR5180                          | 7.09 (180)      |
| LBR5305                          | 12.00 (305)     |
| <b>For Heavy Duty Handles</b>    |                 |
| 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 <sup>③④</sup>  | 1 NO & 1 NC                 |
| LBR3025D              | LBRA25D <sup>③④</sup> | 1 NO & 1 NC                 |
| LBR3040, LBR3060      | LBRA1 <sup>④</sup>    | 1 NO/1 NC with common point |
| LBR3080, LBR3100      | LBRA2 <sup>④</sup>    | 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 Kit<sup>⑤</sup>

| 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.

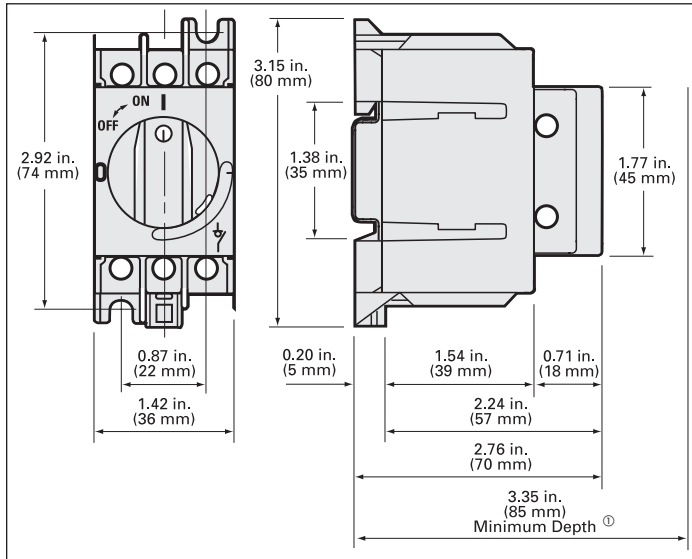
⑦ For door mounting of 40–100A LBR switches use door mounting kit LBRD1 & LBRH3 or 4 handle.

# Disconnect Switches

## Compact Non-Fusible — Rotary and Toggle

## Dimensions

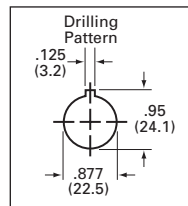
### Dimension Drawings and Wire Ranges



**LBR 3025**

### Wire Ranges 60/75°C Cu only

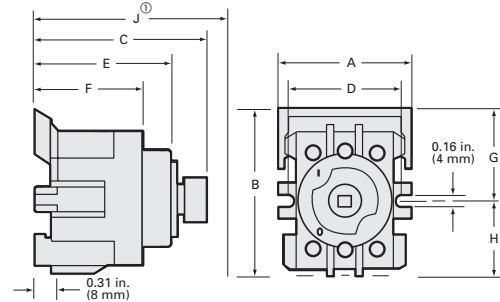
|                                                                                            |                                                                                                                                                                                                        |
|-------------------------------------------------------------------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



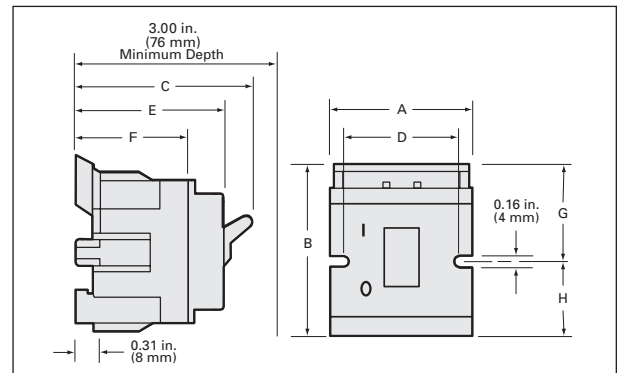
**Shaft Mounted  
3LD2 Handle Cutout**

### Dimension J Minimum Depth<sup>①</sup>

| 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**



**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. | 3LD20 <sup>②</sup>     | 1.89 (48)              | 1.97 (50)  | 1.97 (50)  | —         | —         | —         | —         | —         |
| Rotary Front Mtg. | 3LD21 & 2 <sup>②</sup> | 1.81 (46)              | 2.17 (55)  | 1.97 (50)  | —         | —         | —         | —         | —         |
| Rotary Front Mtg. | 3LD25 <sup>②</sup>     | 2.36 (60)              | 2.52 (64)  | 2.32 (59)  | —         | —         | —         | —         | —         |
| Rotary Front Mtg. | 3LD27 & 8 <sup>②</sup> | 2.40 (61)              | 3.27 (83)  | 2.40 (61)  | —         | —         | —         | —         | —         |
| Rotary Base Mtg.  | 3LD20 <sup>②</sup>     | 1.89 (48)              | 1.97 (50)  | 2.29 (58)  | —         | —         | —         | —         | —         |
| Rotary Base Mtg.  | 3LD21 & 2 <sup>②</sup> | 1.81 (46)              | 2.17 (55)  | 2.29 (58)  | —         | —         | —         | —         | —         |
| Rotary Base Mtg.  | 3LD25 <sup>②</sup>     | 2.36 (60)              | 2.52 (64)  | 2.68 (68)  | —         | —         | —         | —         | —         |
| Rotary Base Mtg.  | 3LD27 & 8 <sup>②</sup> | 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

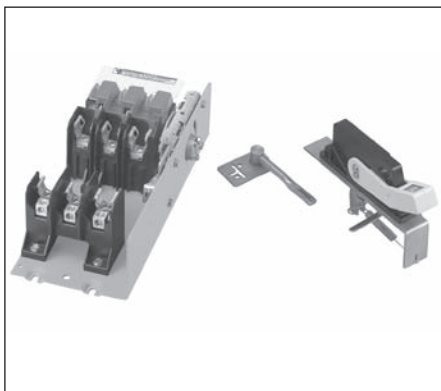
# Disconnect Switches

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

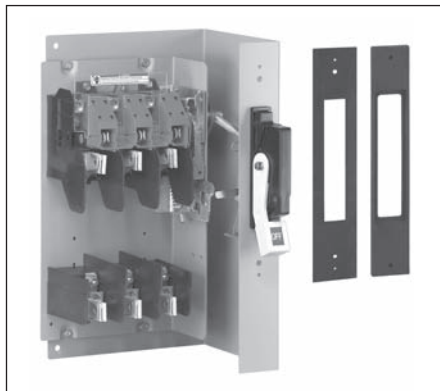
## Features and Ordering Information

### Features

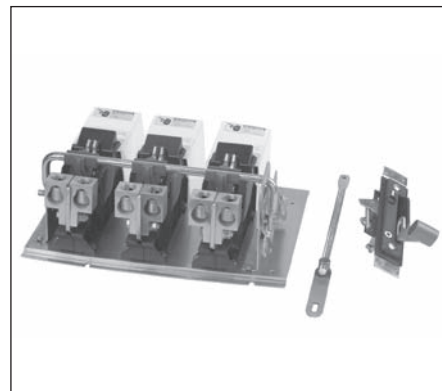
- 30-600A, 600VAC and DC ratings
- 240 & 600V AC switches are UL Recognized under file number E121152, Vol. 3 and CSA certified under file number 154852
- 600V DC Photovoltaic switches are UL Recognized under file number E335018, Vol. 3 and are rated to switch 3 separate 600V DC circuits
- Visible blade quick make and break switching action
- Panel and Flange mounted assemblies facilitate 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<br>Ampere<br>Rating                                              | Max. AC<br>Voltage<br>Rating | Catalog<br>Number | Horsepower Rating, Switches and 3-Phase <sup>④</sup> |       |              |      |              |      | 600<br>Volts DC<br>(max) <sup>④</sup> |
|-------------------------------------------------------------------------|------------------------------|-------------------|------------------------------------------------------|-------|--------------|------|--------------|------|---------------------------------------|
|                                                                         |                              |                   | 240 Volts AC                                         |       | 480 Volts AC |      | 600 Volts AC |      |                                       |
|                                                                         |                              |                   | Standard                                             | Max.  | Standard     | Max. | Standard     | Max. |                                       |
| Fusible Panel Mounted Variable Depth Switches - 3-Pole <sup>⑤</sup>     |                              |                   |                                                      |       |              |      |              |      |                                       |
| 30                                                                      | 240                          | VBFS321           | 3                                                    | 7 1/2 | —            | —    | —            | —    | — <sup>①</sup>                        |
| 60                                                                      | 240                          | VBFS322           | 7 1/2                                                | 15    | —            | —    | —            | —    | — <sup>②</sup>                        |
| 30                                                                      | 600                          | VBFS361           | —                                                    | —     | 5            | 15   | 7 1/2        | 20   | 15 <sup>③</sup>                       |
| 60                                                                      | 600                          | VBFS362           | —                                                    | —     | 15           | 30   | 15           | 50   | 30 <sup>③</sup>                       |
| 100                                                                     | 600                          | VBFS363           | —                                                    | —     | 25           | 60   | 30           | 75   | 50 <sup>③</sup>                       |
| 200                                                                     | 600                          | VBFS364           | —                                                    | —     | 50           | 125  | 60           | 150  | 50                                    |
| 400                                                                     | 600                          | VBFS365           | —                                                    | —     | 100          | 250  | 125          | 350  | — <sup>⑨</sup>                        |
| 600                                                                     | 600                          | VBFS366           | —                                                    | —     | 150          | 400  | 200          | 500  | — <sup>⑨</sup>                        |
| Non-fusible Panel Mounted Variable Depth Switches - 3-Pole <sup>⑤</sup> |                              |                   |                                                      |       |              |      |              |      |                                       |
| 30                                                                      | 600                          | VBNFS361          | —                                                    | 10    | —            | 20   | —            | 30   | 15 <sup>③</sup>                       |
| 60                                                                      | 600                          | VBNFS362          | —                                                    | 20    | —            | 50   | —            | 60   | 30 <sup>③</sup>                       |
| 100                                                                     | 600                          | VBNFS363          | —                                                    | 40    | —            | 75   | —            | 100  | 50 <sup>③</sup>                       |
| 200                                                                     | 600                          | VBNFS364          | —                                                    | 60    | —            | 125  | —            | 150  | 50                                    |
| 400                                                                     | 600                          | VBNFS365          | —                                                    | 125   | —            | 250  | —            | 300  | — <sup>⑨</sup>                        |
| 600                                                                     | 600                          | VBNFS366          | —                                                    | 200   | —            | 400  | —            | 500  | — <sup>⑨</sup>                        |
| Fusible Flange Mounted Switches - 3-Pole <sup>⑤</sup>                   |                              |                   |                                                      |       |              |      |              |      |                                       |
| 30                                                                      | 240                          | VBFS321F          | 3                                                    | 7 1/2 | —            | —    | —            | —    | — <sup>①</sup>                        |
| 60                                                                      | 240                          | VBFS322F          | 7 1/2                                                | 15    | —            | —    | —            | —    | — <sup>②</sup>                        |
| 30                                                                      | 600                          | VBFS361F          | —                                                    | —     | 5            | 15   | 7 1/2        | 20   | 15 <sup>③</sup>                       |
| 60                                                                      | 600                          | VBFS362F          | —                                                    | —     | 15           | 30   | 15           | 50   | 30 <sup>③</sup>                       |
| 100                                                                     | 600                          | VBFS363F          | —                                                    | —     | 50           | 60   | 30           | 75   | 50 <sup>③</sup>                       |
| 200                                                                     | 600                          | VBFS364F          | —                                                    | —     | 100          | 125  | 60           | 150  | 50                                    |
| Non-fusible Flange Mounted Switches – 3-Pole <sup>⑤</sup>               |                              |                   |                                                      |       |              |      |              |      |                                       |
| 30                                                                      | 600                          | VBNFS361F         | —                                                    | 10    | —            | 20   | —            | 30   | 15 <sup>③</sup>                       |
| 60                                                                      | 600                          | VBNFS362F         | —                                                    | 20    | —            | 50   | —            | 60   | 30 <sup>③</sup>                       |
| 100                                                                     | 600                          | VBNFS363F         | —                                                    | 40    | —            | 75   | —            | 100  | 50 <sup>③</sup>                       |
| 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.<sup>⑦</sup> (for use in negative ground systems only)

| Switch<br>Ampere<br>Rating                                                                                                           | Catalog Number | Rated Isc per NEC<br>Article 690 |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------|
| <b>Fusible Panel Mounted Variable Depth Switches—3 Pole<sup>⑧⑨</sup></b>                                                             |                |                                  |
| 30                                                                                                                                   | VBFS361PV      | 19.2A                            |
| 60                                                                                                                                   | VBFS362PV      | 38.4A                            |
| 100                                                                                                                                  | VBFS363PV      | 64.0A                            |
| <b>Non-Fusible Panel Mounted Variable Depth Switches—3 Pole<sup>⑧</sup></b>                                                          |                |                                  |
| 30                                                                                                                                   | VBNFS361PV     | 24.0A                            |
| 60                                                                                                                                   | VBNFS362PV     | 48.0A                            |
| 100                                                                                                                                  | VBNFS363PV     | 80.0A                            |
| <b>Fusible Flange Mounted Variable Depth Switches—3 Pole<br/>(Includes Type 1, 3R and 12 Rated Operating Handle)<sup>⑧⑨</sup></b>    |                |                                  |
| 30                                                                                                                                   | VBFS361FPV     | 19.2A                            |
| 60                                                                                                                                   | VBFS362FPV     | 38.4A                            |
| 100                                                                                                                                  | VBFS363FPV     | 64.0A                            |
| <b>Non-Fusible Flange Mounted Variable Depth Switches—3 Pole<br/>(Includes Type 1, 3R and 12 Rated Operating Handle)<sup>⑧</sup></b> |                |                                  |
| 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<br>Number | Description                  |
|-------------------|------------------------------|
| VBHM1             | 30-200A Max-Flex Adapter Kit |

- 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.

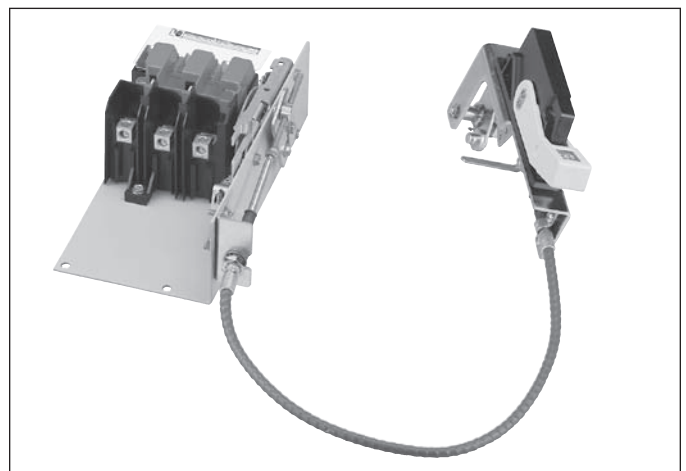
- ⑤ Includes line base, load base, operating mechanism and line and load lugs. Order operating handle and linkage kits from tables on pages 5-7 or 5-8.
- ⑥ Includes line base, load base, operating mechanism line and load lugs plastic operating handle and required linkage.

- 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.

### Cable Kit

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

| Catalog<br>Number | Description          |
|-------------------|----------------------|
| FHOEC036          | 36" long drive cable |
| FHOEC048          | 48" long drive cable |



VBFS361, VBHM1 & FHOEC036

# Disconnect Switches

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

## Selection & Accessories

### Flange Mounted Operating Handles

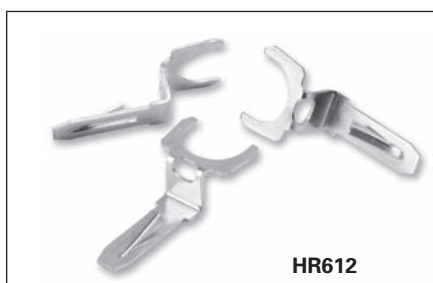
For use with Panel Mounted Switches. Plastic handle is included with Flange Mounted Switches as standard.

| Catalog Number         | Operating Handle Description |
|------------------------|------------------------------|
| <b>Plastic Handles</b> |                              |
| VBH1                   | 30-200A Type 1, 3R & 12      |
| VBH14X                 | 30-200A Type 4X              |
| <b>Metal Handles</b>   |                              |
| 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.

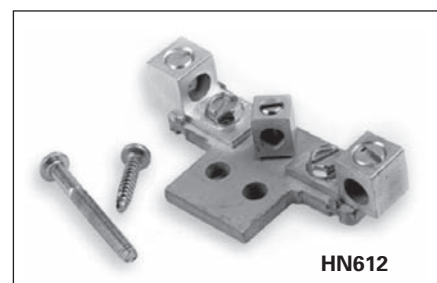
| Catalog Number | Switch Ampere Rating | Enclosure Depth <sup>①</sup> |                   |
|----------------|----------------------|------------------------------|-------------------|
|                |                      | Min                          | Max.              |
| VBK1           | 30-200               | 6.94 <sup>②</sup>            | 6.94 <sup>②</sup> |
| VBK2           | 30-200               | 6.94 <sup>②</sup>            | 19.0              |
| VBK3           | 400 & 600            | 9.00                         | 8.75              |
| VBK4           | 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 Kits<sup>③</sup>

| 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 Kits<sup>④</sup>

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 Kits<sup>④</sup>

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.

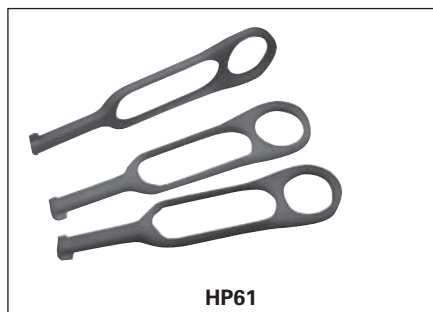
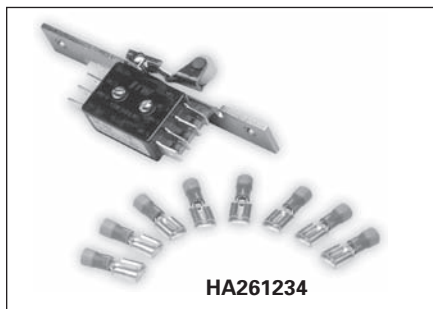
③ One kit per pole required.

④ UL approved (not CSA certified).

# Disconnect Switches

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

*Accessories*



### 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<br>Ampere<br>Rating | Aux. Switch<br>Catalog Number | Kit Ampere Rating |                 |                | Kit Horsepower Rating |                 |                |
|----------------------------|-------------------------------|-------------------|-----------------|----------------|-----------------------|-----------------|----------------|
|                            |                               | 125V AC<br>Max.   | 250V AC<br>Max. | 28V DC<br>Max. | 125V AC<br>Max.       | 250V AC<br>Max. | 28V DC<br>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<br>Ampere<br>Rating | Fuse Puller Kit<br>Catalog Number |
|----------------------------|-----------------------------------|
| 30                         | HP61                              |
| 60                         | HP62▲                             |
| 100                        | HP63▲                             |

### Copper Lug Kits

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

| Switch<br>Ampere<br>Rating | Copper Lug<br>Catalog<br>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<br>Ampere<br>Rating | Catalog<br>Number | Number of<br>Terminals | Wire Range<br>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<br>Ampere<br>Rating | Shield Kit<br>Catalog Number |
|----------------------------|------------------------------|
| 30A                        | HSK61                        |
| 60-100A                    | HSK623                       |
| 200A                       | HSK64                        |

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

# Disconnect Switches

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

## Lug Wire Ranges & Dimensions

### 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.

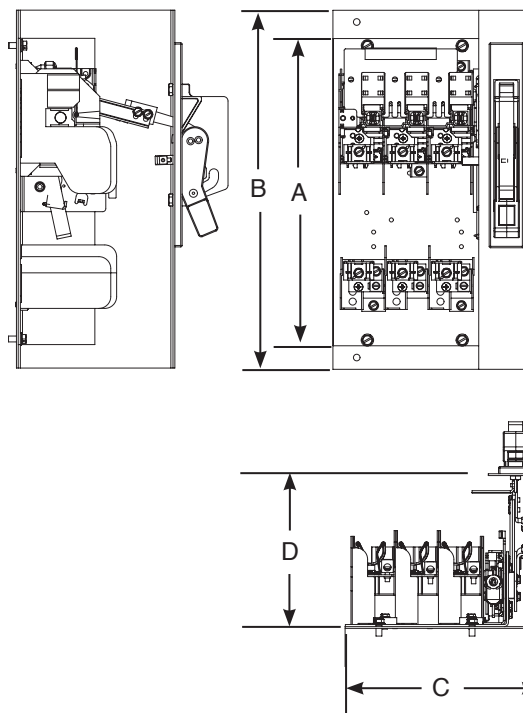
### Wire Ranges (Line, Load and Standard Neutral)

| 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<br>(2) 1/0 AWG-250 Kcmil (Cu/Al)  | (1) 1/0 AWG-750 Kcmil (Cu/Al) or<br>(2) 1/0 AWG-250 Kcmil (Cu/Al) |
| 600                  | (2) 1/0 AWG-750 Kcmil (Cu/Al) or<br>(4) 1/0 -250 Kcmil (Cu/Al) | (2) 1/0 AWG-750 Kcmil (Cu/Al) or<br>(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     | C <sup>①</sup> | D (min) | D (max) |
| <b>Fusible, Panel Mounted</b>      |            |       |                |         |         |
| 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      |
| <b>Non-fusible, Panel Mounted</b>  |            |       |                |         |         |
| 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      |
| <b>Fusible, Flange Mounted</b>     |            |       |                |         |         |
| 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     |
| <b>Non-fusible, Flange Mounted</b> |            |       |                |         |         |
| 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.