4 SPEEDFAX™ 2007-2008 Disconnect Switches

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Disconnect Switches

Compact Non-Fusible — Rotary and Toggle

Selection

Features

- 25 -100 Ampere, to 50 hp 480V and 600V
- Rotary and Toggle actuation models
- LBR Type switches are UL & CUL listed under File No. E191706 as manual motor controllers per UL Standard UL508
- 3LD2 Type switches are UL listed under File No. E47705 per UL508 and are CSA certified under File No. 203576
- Base, 35mm 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

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.

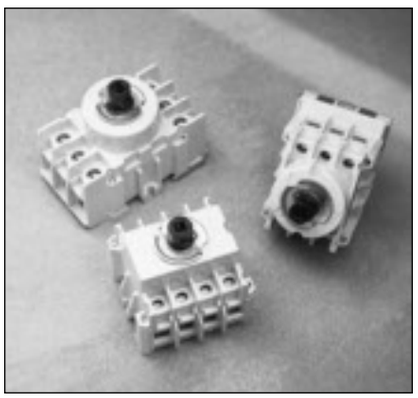
Individual Components are ordered as follows:

25A — LBR3025D switch + LBRH3 or 4 handle.

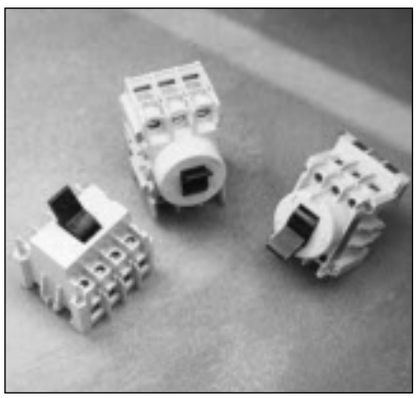
40–100A — LBR switch + LBRH3 or 4 handle + LBRD1.

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.



Type LBR Rotary Switches



Type LBT Toggle Switches



3LD2254-0TK51

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

Complete Assemblies include switch, handle, and shaft.

Individual Components are ordered 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 Fuses	
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.

3LD Type Door Mounted Complete Assemblies
(Operator, Shaft, & Switch) 600V AC Max.②

Shaft Mounted		4 Hole Mounted				AC Horsepower Ratings				
Catalog Number③	List Price $	Catalog Number③	List Price $	Number of Poles	Ampere Rating	120V 1Ø	240V 1Ø	240V 3Ø	480V 3Ø	600V 3Ø
3LD2154-0TK__	81.00	3LD2103-0TK__	81.00	3	25	2	3	7½	10	15
3LD2154-1TP__	106.00	3LD2103-1TP__	106.00	3①						
3LD2154-1TL__	101.00	3LD2103-1TL__	101.00	3 + N						
3LD2154-2EP__	123.00	3LD2103-2EP__	123.00	3 + N①						
3LD2254-0TK__	96.00	3LD2203-0TK__	90.00	3	32	2	3	10	20	20
3LD2254-1TL__	118.00	3LD2203-1TL__	122.00	3 + N						
3LD2555-0TK__	155.00	3LD2504-0TK__	155.00	3	63	—	10	15	40	50
—	—	3LD2504-3VK53	224.00	6	63	—	10	15	40	50
—	—	3LD2704-0TK__	235.00	3	100	—	—	30	60	75
—	—	3LD2804-0TK__	300.00	3	125	—	—	40	75	100

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

Disconnect Switches

Compact Non-Fusible — Rotary and Toggle

Selection

3LD Type Base Mounted Complete Assemblies

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

Handle Mounting②						AC Horsepower Ratings				
Shaft (center hole)		4 Hole								
Catalog Number③	List Price $	Catalog Number③	List Price $	Number of Poles	Ampere Rating	120V 1Ø	240V 1Ø	240V 3Ø	480V 3Ø	600V 3Ø
3LD2144-0TK__ 3LD2144-1TL__	138.00 154.00	3LD2113-0TK__ 3LD2113-1TL__	132.00 149.00	3 3 + N	25	2	3	7½	10	15
3LD2244-0TK__ 3LD2244-1TL53	154.00 138.00	3LD2213-0TK__ 3LD2213-1TL53	144.00 165.00	3 3 + N	32	2	3	10	20	20
3LD2545-0TK__	207.00	3LD2514-0TK__	171.00	3	63	—	10	15	40	50
—	—	3LD2714-0TK__	282.00	3	100	—	—	30	60	75
—	—	3LD2814-0TK__	352.00	3	125	—	—	40	75	100

Note: Shaft length allows a maximum depth from switch mounting surface to the outside of the cover of 15.25" on 25 & 32A switches and of 15.75" on 63-125A switches.



3LD2213-0TK53

Accessories for Front Mounted 3LD2 Switches

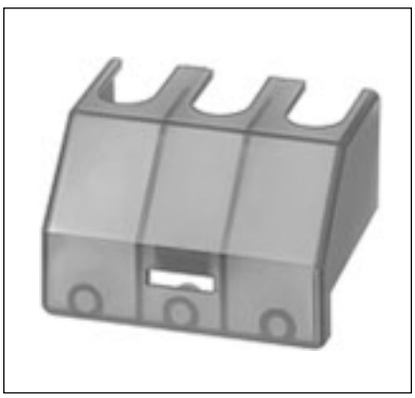
Catalog Number	Description	Switches Used With	List Price $
3LD9200-5B④ 3LD9200-5BF④	1 NO, 1 NC Aux. Contact 1 NO, 1 NC Aux. with Gold Plated Contacts	25-125A 25-125A	33.00 57.00
3LD9220-2B 3LD9250-2BA 3LD9280-2B	Neutral/Ground Terminal Neutral/Ground Terminal Neutral/Ground Terminal	25 & 32A 63A 100 & 125A	23.00 32.00 39.50
3LD9220-0B 3LD9250-0BA 3LD9280-0B	4th Pole (leading ON, lagging OFF) 4th Pole (leading ON, lagging OFF) 4th Pole (leading ON, lagging OFF)	25 & 32A 63A 100 & 125A	28.50 46.50 57.00
3LD9224-1B① 3LD9284-1B① 3LD9224-3B① 3LD9284-3B①	Black Handle (4 hole mtg.) Black Handle (4 hole mtg.) Red/Yellow Handle (4 hole mtg.) Red/Yellow Handle (4 hole mtg.)	25 & 32A 63-125A 25 & 32A 63-125A	15.00 39.50 15.00 39.50
3LD9224-1D① 3LD9284-1D① 3LD9224-3D① 3LD9284-3D①	Black Handle (shaft mtg.) Black Handle (shaft mtg.) Red/Yellow Handle (shaft mtg.) Red/Yellow Handle (shaft mtg.)	25 & 32A 63-125A 25 & 32A 63-125A	15.00 39.50 15.00 39.50
3LD9221-2A① 3LD9251-2A① 3LD9281-2A① 3LD9221-0A① 3LD9251-0A①	Terminal Cover 1P (Pack of 4) Terminal Cover 1P (Pack of 4) Terminal Cover 1P (Pack of 4) Terminal Cover 3P (Pack of 4) Terminal Cover 3P (Pack of 4)	25 & 32A 63A 100-125A 25 & 32A 63A	3.00 3.00 4.60 9.00 10.60



3LD9220-2C

Accessories for Base Mounted 3LD2 Switches

Catalog Number	Description	Switches Used With	List Price $
3LD9200-5C④ 3LD9200-5CF④	1 NO, 1 NC Aux. Contact 1 NO, 1 NC Aux. with Gold Plated Contacts	25-125A 25-125A	33.00 57.00
3LD9220-2C 3LD9250-2CA 3LD9280-2C	Neutral/Ground Terminal Neutral/Ground Terminal Neutral/Ground Terminal	25 & 32A 63A 100 & 125A	23.00 32.00 39.50
3LD9220-0C 3LD9250-0CA 3LD9280-0C	4th Pole (leading ON, lagging OFF) 4th Pole (leading ON, lagging OFF) 4th Pole (leading ON, lagging OFF)	25 & 32A 63A 100 & 125A	28.50 46.50 57.00
3LD9224-1B① 3LD9284-1B① 3LD9224-3B① 3LD9284-3B①	Black Handle (4 hole mtg.) Black Handle (4 hole mtg.) Red/Yellow Handle (4 hole mtg.) Red/Yellow Handle (4 hole mtg.)	25 & 32A 63-125A 25 & 32A 63-125A	15.00 39.50 15.00 39.50
3LD9224-1D① 3LD9284-1D① 3LD9224-3D① 3LD9284-3D①	Black Handle (shaft mtg.) Black Handle (shaft mtg.) Red/Yellow Handle (shaft mtg.) Red/Yellow Handle (shaft mtg.)	25 & 32A 63-125A 25 & 32A 63-125A	15.00 39.50 15.00 39.50
3LD9221-2A① 3LD9251-2A① 3LD9281-2A① 3LD9221-0A① 3LD9251-0A①	Terminal Cover 1P (Pack of 4) Terminal Cover 1P (Pack of 4) Terminal Cover 1P (Pack of 4) Terminal Cover 3P (Pack of 4) Terminal Cover 3P (Pack of 4)	25 & 32A 63A 100-125A 25 & 32A 63A	3.00 3.00 4.60 9.00 10.60



3LD9251-0A

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

② Add suffix 51 for a black handle or 53 for a red & yellow handle to the catalog number. Handles are 1P65 rated and are also UL listed for Type 1, 4X & 12 applications.

③ Add 51 for a black handle or 53 for a red & yellow handle to the end of the catalog number.

④ 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

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	240V 3Ø	480V 3Ø	600V 3Ø	List Price $
LBR3025	Rotary	3	25	480	¾	2	5	10	—	**99.00**
LBR3025D⑥	Rotary	3	25	480	¾	2	5	10	—	**108.00**
LBR3040⑦	Rotary	3	40	600	2	3	7½	20	25	**118.00**
LBR3060⑦	Rotary	3	60	480	2	5	10	25	—	**141.00**
LBR3080⑦	Rotary	3	80	600	3	10	20	40	50	**169.00**
LBR3100⑦	Rotary	3	100	480	5	15	25	50	—	**208.00**
LBR4040	Rotary	4	40	480	2	3	7½	20	—	**184.00**
LBT3040	Toggle	3	40	600	2	3	7½	20	25	**118.00**
LBT3060	Toggle	3	60	480	2	5	10	25	—	**141.00**
LBT3080	Toggle	3	80	600	3	10	20	40	50	**169.00**
LBT3100	Toggle	3	100	480	5	15	25	50	—	**208.00**
LBT4040	Toggle	4	40	480	2	3	7½	20	—	**184.00**



Standard Duty Rotary Switch Door Handles



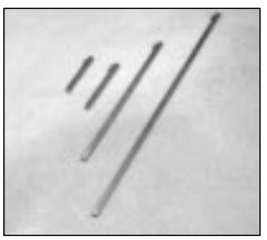
Heavy Duty Rotary Switch Door Handle

LBR Type Handles

Catalog Number	Used on Rotary Switches	NEMA Type	Mounting	Marking	Color	Cover Interlock Supplied	Padlockable	List Price $
Standard Duty								
LBRH2②	All	1	Door	ON/OFF	Black	No	No	**34.50**
LBRH3②	All	1, 3R, 12, 4X	Door	O/I, ON/OFF	Black	Yes①	Yes	**51.00**
LBRH4②	All	1, 3R, 12, 4X	Door	O/I, ON/OFF	Red/Yel	Yes①	Yes	**51.00**
LBRH9②	All (Pistol Grip Type)	1, 3R, 12, 4X	Door	O/I, ON/OFF	Black	Yes	Yes	**130.00**
LBRH10②	All (Pistol Grip Type)	1, 3R, 12, 4X	Door	O/I, ON/OFF	Red/Yel	Yes	Yes	**130.00**
LBRH5	25 Amps	1	Direct Mount	O/I	Black	—	Yes	**16.10**
LBRH6	3-Pole, 40-60 Amps	1	Direct Mount	O/I	Black	—	Yes	**21.00**
LBRH7	3-Pole, 80-100 Amps	1	Direct Mount	O/I	Black	—	Yes	**21.00**
LBRH8	4-Pole, 40-60 Amps	1	Direct Mount	O/I	Black	—	Yes	**21.00**
Heavy Duty								
CFSH10B12	All	1, 3R, 12	Door	O/I, ON/OFF	Black	Yes	Yes	**137.00**
CFSH10R12	All	1, 3R, 12	Door	O/I, ON/OFF	Red/Yel	Yes	Yes	**137.00**

LBR Type Rotary Shafts

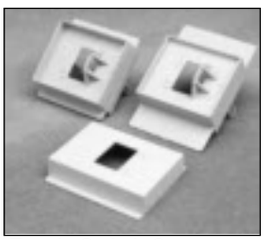
Catalog No	Length In. (mm)	List Price $
For Standard Duty Handles		
LBRS040	1.57 (40)	**16.10**
LBRS050	1.97 (50)	**21.00**
LBRS055	2.17 (55)	**21.00**
LBRS080	3.15 (80)	**24.00**
LBRS120	4.72 (120)	**27.00**
LBRS180	7.09 (180)	**31.50**
LBRS305	12.00 (305)	**34.50**
For Heavy Duty Handles		
CFSS5200H	7.9 (200)	**34.00**
CFSS5400H	15.7 (400)	**36.00**



Rotary Shafts



Rotary Switch Direct Mount Handles



Toggle Switch Cover Plates

LBR 25 Amp, 4th Pole

Used on Catalog No	Catalog No	List Price $
LBR3025	**LBRP25**	**68.00**
LBR3025D	**LBRP25D**	**76.00**

LBR Auxiliary Switch Kits

Used on Rotary Switch	Catalog Number	Contact Arrangement	List Price $
LBR3025	**LBRA25**③④	1 NO/1 NC	**51.00**
LBR3025D	**LBRA25D**③④	1 NO/1 NC	**51.00**
LBR3040, LBR3060	**LBRA1**③④	1 NO/1 NC with common point	**59.00**
LBR3080, LBR3100	**LBRA2**③④	1 NO/1 NC with common point	**65.00**

LBT Type Toggle Switch Cover Plate

Used on Toggle Switches	Catalog Number	List Price $
LBT3040, LBT3060	**LBTCP1**	**25.50**
LBT3080, LBT3100	**LBTCP2**	**27.00**
LBT4040	**LBTCP3**	**30.50**

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

Used on Rotary Switch	Catalog Number	List Price $
40-100 Amps	**LBRD1**	**59.00**

LBR/LBT Neutral Kit⑤

Used with Catalog Number	Catalog Number	List Price $
All	**HF63CX**	**76.00**

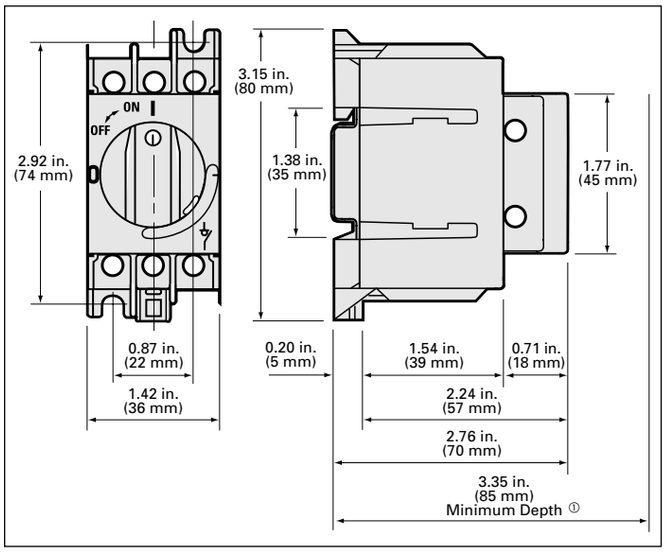
① No cover interlock defeat mechanism provided. To eliminate cover interlock, order additional catalog number **LBRDC1**.
② LBRH2 is IP54 rated. All others are IP65.
③ Ratings
15.1A resistive at 250V AC max.
.5A at 125V DC
.25A at 250V DC
.5 HP at 250V AC max.
④ Auxiliary switch contacts break about 30 Ms before and make about 3 Ms after main switch contacts. Cannot be used with LBRD1 door mounting kit.
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

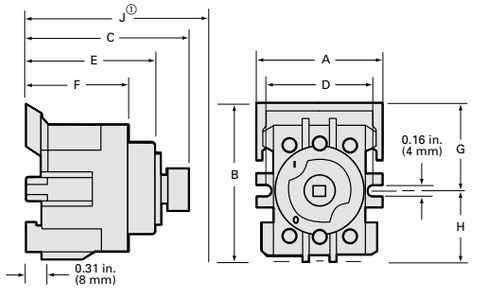
Dimension Drawings and Wire Ranges



LBR 3025

Dimension J Minimum Depth①

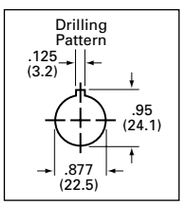
Switch	Dimension J
LBR 40-100A	3.35 (85)
3LD2 25 & 32A Front Shaft Mounted	3.07 (78)
3LD2 63 Front Shaft Mounted	3.35 (85)
3LD2 25 &32A Front 4-hole Mounted	2.13 (54)
3LD2 63A Front 4-hole Mounted	2.48 (63)
3LD2 100 & 125A Front 4-hole Mounted	2.56 (65)
3LD2 25 & 32A Base w/shaft Mtg. Handle	6.46 (164)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



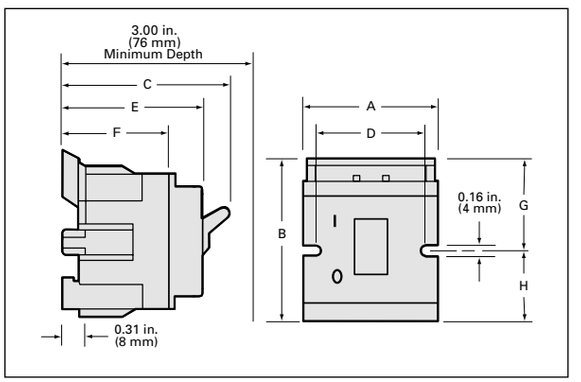
LBR 40-100 Amps & 3LD2 25-125A

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
25A, 3LD21 32A, 3LD22 63A, 3LD25 100, 125A, 3LD2	(1) #14-8 AWG (1) #14-8 AWG (1) #14-6 AWG (1) #12-1 AWG



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.	**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 & 8**	2.40 (61)	3.27 (83)	2.40 (61)	—	—	—	—	—
Rotary Base Mtg.	**3LD21 & 2**	1.81 (46)	2.17 (55)	2.29 (58)	—	—	—	—	—
Rotary Base Mtg.	**3LD25**	2.36 (60)	2.52 (64)	2.68 (68)	—	—	—	—	—
Rotary Base Mtg.	**3LD27 & 8**	2.80 (71)	3.27 (83)	2.76 (70)	—	—	—	—	—
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.

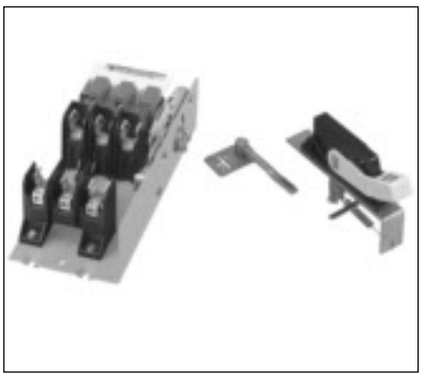
② Handle front plate dimensions:
3LD21 & 2—2.64 inches square
3LD25, 7 & 8—3.55 inches square

Disconnect Switches

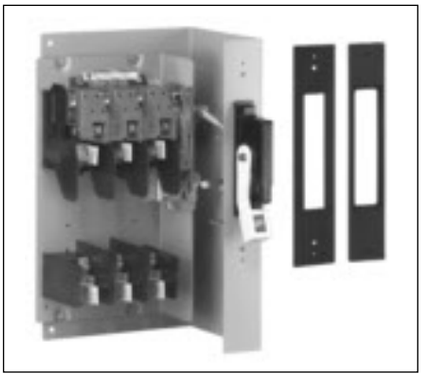
Type VBII (30-600A) with Flange Mounted Operating Handle *Features and Ordering Information*

Features

- 30-600A, 600VAC and DC ratings
- UL Recognized (file # E121152 vol. 3) and CSA Certified under file number 154852
- 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
- Flange mounted handles are Type 1 and 12 rated and padlockable in the off position with up to (3) padlocks with 5/16 hasps ①
- 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



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.

① 30-200A handles are also rated Type 3R & 4X.

Disconnect Switches

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

Selection

Switches

Switch Ampere Rating	Max. AC Voltage Rating	Catalog Number	Horsepower Rating, Switches and 3-Phase④						600 Volts DC (max)④	List Price $
			240 Volts AC		480 Volts AC		600 Volts AC			
			Standard	Max.	Standard	Max.	Standard	Max.		
Fusible Panel Mounted Variable Depth Switches - 3-Pole⑤⑦										
30	240	**VBFS321**	3	7 1/2	—	—	—	—	— ①	**582.00**
60	240	**VBFS322**	7 1/2	15	—	—	—	—	— ②	**670.00**
30	600	**VBFS361**	—	—	5	15	7 1/2	20	15 ③	**605.00**
60	600	**VBFS362**	—	—	15	30	15	50	30 ③	**710.00**
100	600	**VBFS363**	—	—	25	60	30	75	50 ③	**1327.00**
200	600	**VBFS364**	—	—	50	125	60	150	50	**2446.00**
400	600	**VBFS365**	—	—	100	250	125	350	50 ③	**4649.00**
600	600	**VBFS366**	—	—	150	400	200	500	50 ③	**7098.00**
Non-fusible Panel Mounted Variable Depth Switches - 3-Pole⑤										
30	600	**VBNFS361**	—	10	—	20	—	30	15 ③	**529.00**
60	600	**VBNFS362**	—	20	—	50	—	60	30 ③	**605.00**
100	600	**VBNFS363**	—	40	—	75	—	100	50 ③	**1074.00**
200	600	**VBNFS364**	—	60	—	125	—	150	50	**1813.00**
400	600	**VBNFS365**	—	125	—	250	—	300	50 ③	**3446.00**
600	600	**VBNFS366**	—	200	—	400	—	500	50 ③	**5261.00**
Fusible Flange Mounted Switches - 3-Pole⑥										
30	240	**VBFS321F**	3	7 1/2	—	—	—	—	— ①	**851.00**
60	240	**VBFS322F**	7 1/2	15	—	—	—	—	— ②	**940.00**
30	600	**VBFS361F**	—	—	5	15	7 1/2	20	15 ③	**875.00**
60	600	**VBFS362F**	—	—	15	30	15	50	30 ③	**981.00**
100	600	**VBFS363F**	—	—	50	60	30	75	50 ③	**1597.00**
200	600	**VBFS364F**	—	—	100	125	60	150	50	**2718.00**
Non-fusible Flange Mounted Switches - 3-Pole⑥										
30	600	**VBNFS361F**	—	10	—	20	—	30	15 ③	**798.00**
60	600	**VBNFS362F**	—	20	—	50	—	60	30 ③	**875.00**
100	600	**VBNFS363F**	—	40	—	75	—	100	50 ③	**1344.00**
200	600	**VBNFS364F**	—	60	—	125	—	150	50	**2084.00**

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

Flange Mounted Operating Handles

For use with Panel Mounted Switches. Included with Flange Mounted Switches as standard.

Catalog Number	Handle Assembly Description	List Price $
VBH1	30-200A Type 1, 3R & 12	**240.00**
VBH14X	30-200A Type 4X	**399.00**
VBH2	400 & 600A Type 1 & 12	**476.00**

Rigid Linkage Kits

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

Catalog Number	Switch Ampere Rating	Enclosure Depth⑦		List Price $
		Min	Max.	
VBLK1	30-200	6.94⑧	6.94⑧	**29.50**
VBLK2	30-200	6.94⑧	19.0	**35.00**
VBLK3	400 & 600	9.00	8.75	**46.50**
VBLK4	400 & 600	9.00	19.0	**54.00**

Max-Flex™ Handle and Adapter Kit

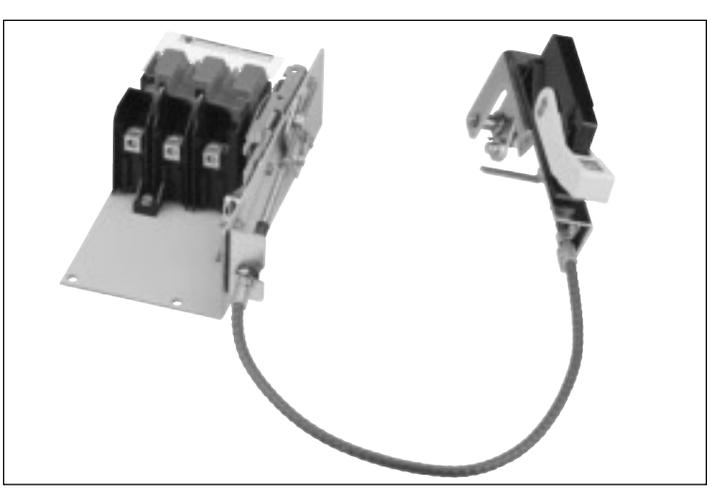
(Type 1, 12, 3R & 4X)
Use with 30-200A panel mounted switches and cable kit.

Catalog Number	Description	List Price $
VBHM1	30-200A Max-Flex Adapter Kit	**424.00**

Cable Kit

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

Catalog Number	Description	List Price $
FHOEC036	36" long drive cable	**153.00**
FHOEC048	48" long drive cable	**182.00**



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 this page.
⑥ Includes line base, load base, operating mechanism line and load lugs operating handle and required linkage.
⑦ Dimensions (min. & max.) from enclosure mounting pan to outside surface of enclosure handle mounting flange.
⑧ 7.12 for 200A switches.

Disconnect Switches

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

Accessories



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	List Price $	Description
HR21	83.00	30A, 240V Kit (HD only)
HR612	83.00	30A, 600V Kit/60A, 240V Kit
HR62	83.00	60A, 600V Kit
HR63	54.00	100A Kit
HR64	54.00	200A Kit
HR656	137.00	400A/600A 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.

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	List Price $
DKR2	2 point (for use with enclosures less than 40" high)	338.00
DKR3	3 point (for use with enclosures 40" or larger in height)	377.00

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 Kits①

Catalog Number	List Price $	Description
HT23	76.00	100A, 240V Kit
HT63	120.00	100A, 600V Kit
HT24	102.00	200A, 240V Kit
HT64▲	143.00	200A, 600V Kit

Neutral Kits

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

Neutral Kits

Switch Ampere Rating	Kit Catalog Number	List Price $
30A 600V, 60A 240V	HN612	97.00
60A, 600V & 100A	HN623	186.00

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

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

Catalog Number	Description	List Price $
VBWK1	30A Window Kit	109.00
VBWK2	60 & 100A Window Kit	118.00
VBWK3	200-600A Window Kit	123.00

200% Neutral Kits

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

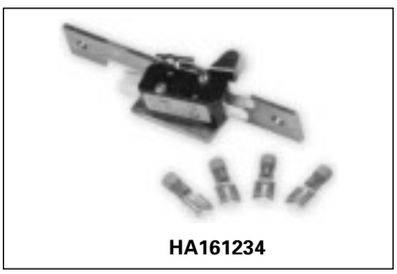
Switch Ampere Rating	Kit Catalog Number	List Price $	Wire Range Line & Load Lugs (Cu/Al)
100	HN263	225.00	(2) #14-1/0 AWG

▲ Built to order. Allow 6–8 weeks for delivery.
① One kit per pole required.

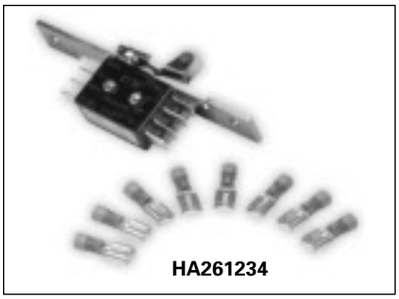
Disconnect Switches

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

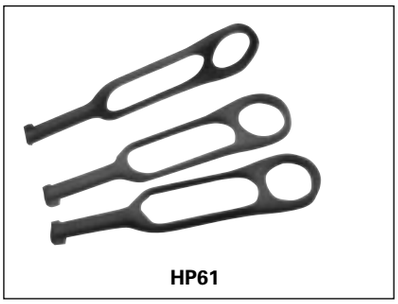
Accessories



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	List Price $	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**	**239.00**	10	10	—	1/2	3/4	—
400-600	**HA165678**	**587.00**	10	10	—	1/2	3/4	—
With 2 NO & 2 NC Isolated Contacts								
30-200	**HA261234**	**266.00**	10	10	7	1/2	3/4	—
400-600	**HA265678**	**614.00**	10	10	7	1/2	3/4	—
Low Current PLC Type with 1 NO & 1 NC Gold Plated Contacts								
30-200	**HA361234**	**302.00**	10	10	—	1/2	3/4	—
400-600	**HA365678**	**643.00**	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	List Price $
30	**HP61**	**21.00**
60	**HP62▲**	**21.00**
100	**HP63▲**	**21.00**

Copper Lug Kits

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

Switch Ampere Rating	Copper Lug Catalog Number	List Price $	Description
30–60	**HLC612**	**138.00**	(9) Lugs/Kit #14-4 AWG Cu
100	**HLC63▲**	**172.00**	(9) Lugs/Kit #14-1/0 AWG Cu
200	**HLC64▲**	**212.00**	(9) Lugs/Kit #6 AWG-300 Kcmil Cu
400–600A	**HLC65678**	**37.50**	(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	List Price $	Number of Terminals	Wire Range Per Terminal (Cu/Al)
30–200	**HG61234**	**24.00**	2	#14-4 AWG
400 & 600	**HG656**	**123.00**	4	#6 AWG-250 Kcmil

▲ 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.

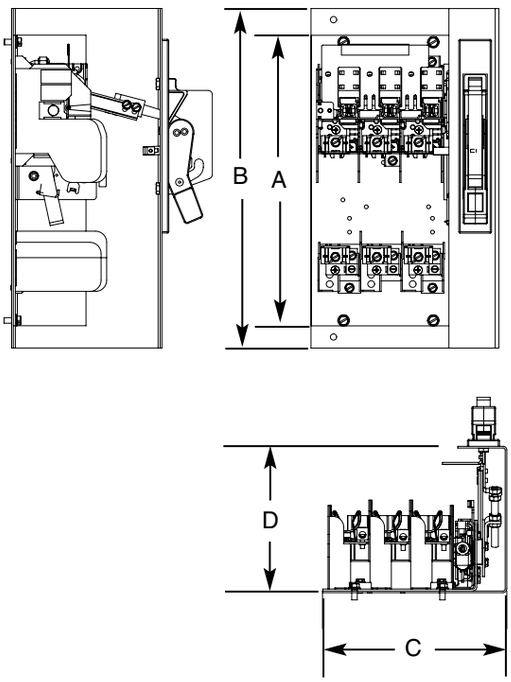
Wire Ranges (Line, Load and Standard Neutral)

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 (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	6.62	6.81	19
VBFS322	13.12	N/A	8.50	6.81	19
VBFS361	11.88	N/A	6.62	6.81	19
VBFS362	13.12	N/A	8.50	6.81	19
VBFS363	13.12	N/A	8.50	6.81	19
VBFS364	17	N/A	12.33	7.05	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	9.79	N/A	6.62	6.81	19
VBNFS362	9.79	N/A	8.50	6.81	19
VBNFS363	9.79	N/A	8.50	6.81	19
VBNFS364	10.77	N/A	12.33	7.05	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	14.06	7.00	7.27	N/A
VBFS322F	13.12	15.83	8.85	7.27	N/A
VBFS361F	11.88	14.06	7.00	7.27	N/A
VBFS362F	13.12	15.83	8.85	7.27	N/A
VBFS363F	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	9.79	11.78	7.00	7.27	N/A
VBNFS362F	9.79	11.78	8.85	7.27	N/A
VBNFS363F	9.79	11.78	8.85	7.27	N/A
VBNFS364F	10.77	12.00	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.

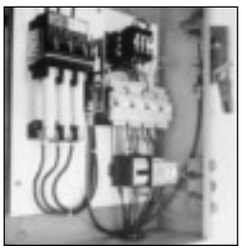
Disconnect Switches

Type MCS (30-200A) — Switches, Fuse and No Fuse Kits

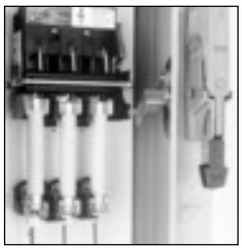
Selection

Features

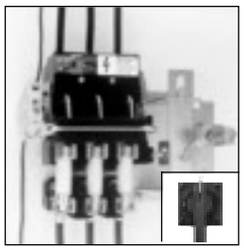
- 30, 60, 100 and 200 Ampere Switches
- UL Recognized (file # E121152 vol. 1 & 2) and CSA Certified
- Simple Mounting — with an integral switch and over center mechanism
- Horsepower & load break rated
- Compact Size
- Visible Blade Contacts
- Rugged Construction — with a short circuit current rating of 10,000 amps with Class H or 200,000 amps at 600V maximum AC, when fused with Class R or Class J fuses
- Available with three operator handle options, allowing flexible placement of switch
- Field Installable Auxiliary Contacts
- Flexible Fuse Class Configurations
- Flange mounted handles meet NFPA79 requirements



Type MCS Disconnect Switch with Max-Flex™ handle operator



Type MCS Disconnect Switch with fixed-depth, flange-mounted handle



Type MCS Disconnect Switch with rotary handle

Ordering Information

1. Select the basic switch size you need (30, 60, 100 or 200 ampere).
2. Check the switch selected against the maximum horsepower rating required for your application. "L" or "R" suffix on switch catalog numbers denotes left or right-handed mechanism drive.
3. Choose either fuse or no fuse kit from chart below.
4. Check "Minimum Dimensions" on page 4-12 for installation space requirements.
5. Select from the list of handle operators, the type which best suits your application. Handle operators can be selected from the next page.

Basic Switches

Switch Ampere Rating	Maximum Voltage Rating	Catalog Number Right Hand	Catalog Number Left Hand	Maximum Horsepower Rating, 3 Phase④						250 Volts DC (max)④	List Price $
				240 Volts AC		480 Volts AC		600 Volts AC			
				Standard Fuse	Time Delay Fuse	Standard Fuse	Time Delay Fuse	Standard Fuse	Time Delay Fuse		
30	600	**MCS603R**	**MCS603L**	3	7½	5	15	7½	20	5	**464.00**
60	600	**MCS606R**	**MCS606L**	7½	15	15	30	15	50	10	**534.00**
100	600	**MCS610R**	**MCS610L▲**	15	30	25	60	30	75	20	**996.00**
200	600	**MCS620R**	**MCS620L▲**	25	60	50	125	60	150	40	**1607.00**

Fuse And No Fuse Kits (Includes load base plus line and load fuse clips)①

Basic Switch Ampere Rating	Switch Catalog Number	Kit Description	No Fuse Kits				For Class H		For Class J		For Class R		Lug Wire Size
			Standard		Cu Only②								
			Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number ①	Std List Price $	Catalog Number ①	Std List Price $	Catalog Number ①	Std List Price $	
30	**MCS603R** or **MCS603L**	No Fuse	**TMK606**	**15.10**	—	—	—	—	—	—	—	—	#14 to #4 AWG Cu/Al
		30A, 250V	—	—	—	—	**FCK203▲**	**67.00**	—	—	**FCRK203**	**98.00**	
		30A, 600V	—	—	—	—	**FCK206**	**87.00**	**FCJK603**	**98.00**	**FCRK206**	**119.00**	
		60A, 250V	—	—	—	—	**FCK206**	**87.00**	—	—	**FCRK206**	**119.00**	
		60A, 600V	—	—	—	—	**FCK606**	**127.00**	**FCJK606**	**127.00**	**FCRK606**	**154.00**	
60	**MCS606R** or **MCS606L**	No Fuse	**TMK606**	**15.10**	—	—	—	—	—	—	—	—	#14 to #4 AWG Cu/Al
		60A, 250V	—	—	—	—	**FCK206**	**87.00**	—	—	**FCRK206**	**119.00**	
		60A, 600V	—	—	—	—	**FCK606**	**127.00**	**FCJK606**	**127.00**	**FCRK606**	**154.00**	
		100A, 250V	—	—	—	—	**OFCK661▲**	**294.00**	**OFCK661▲**	**294.00**	③	—	
		100A, 600V	—	—	—	—	**OFCK661▲**	**294.00**	**OFCK661▲**	**294.00**	③	—	
100	**MCS610R** or **MCS610L**	No Fuse	**TMK610**	**37.50**	**TMK610C**	**74.00**	—	—	—	—	—	—	#14 to #2/0 AWG Cu/Al
		100A, 250V	—	—	—	—	**FCK610**	**296.00**	**FCK610**	**296.00**	③	—	
		100A, 600V	—	—	—	—	**FCK610**	**296.00**	**FCK610**	**296.00**	③	—	
		200A, 250V	—	—	—	—	**OFCK620**	**562.00**	**OFCK620**	**562.00**	③	—	
		200A, 600V	—	—	—	—	**OFCK620**	**562.00**	**OFCK620**	**562.00**	③	—	
200	**MCS620R** or **MCS620L**	No Fuse	**TMK620**	**77.00**	**TMK620C▲**	**156.00**	—	—	—	—	—	—	#6 to 300 kcmil Cu/Al
		200A, 250V	—	—	—	—	**FCK620**	**730.00**	**FCK620**	**730.00**	③	—	
		200A, 600V	—	—	—	—	**FCK620**	**730.00**	**FCK620**	**730.00**	③	—	

▲ Built to order. Allow 6–8 weeks for delivery.
① For "copper only" connectors, order as follows:
Fusible—order standard switch, standard fuse kit and copper only no fuse kit.
Non-Fusible—order standard switch and copper only no fuse kit.
② Includes both line and load lugs.
③ For Class R fuses order Class H kit from this table and the Class R conversion kit from the next page.
④ HP ratings for time delay fuses and for 250V DC also apply to Non-fusible switches.

Disconnect Switches

Type MCS (30-200A)

Accessories

Auxiliary Switch Kits

Switch Catalog Number	Contact Arrangement			
	1 NO/1 NC		2 NO/2 NC	
	Catalog Number	List Price $	Catalog Number	List Price $
MCS603R	MCSAKR136	347.00	MCSAKR236	602.00
MCS603L	MCSAKL136	347.00	MCSAKL236▲	602.00
MCS606R	MCSAKR136	347.00	MCSAKR236	602.00
MCS606L	MCSAKL136	347.00	MCSAKL236▲	602.00
MCS610R	MCSAK116	348.00	MCSAK216	603.00
MCS610L	MCSAK116	348.00	MCSAK216	603.00
MCS620R	MCSAK126	398.00	MCSAK226	802.00
MCS620L	MCSAK126	398.00	MCSAK226	802.00

Class R Fuse Conversion Kits

Fuse Clip Rating	Catalog Number	List Price $
100A, 600V	SSRK33	54.00
200A, 600V	SSRK34	54.00

Fuse Ejector Kits

Switch Catalog Number	Fuse Ejector Kit Catalog Number	List Price $
MCS610	FE100▲	23.00
MCS620	FE200▲	35.50

Handle Operators

Fixed Depth, Flange Mounted, Types 1, 3, 3R, 12①⑥

Switch Catalog Number	Complete Handle Mechanism		Handle Only		Switch Operator Only	
	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
MCS603R	FDFS06R	317.00	FDH10	252.00	FDS06R	65.00
MCS603L	FDFS06L	317.00	FDH10	252.00	FDS06L	65.00
MCS606R	FDFS06R	317.00	FDH10	252.00	FDS06R	65.00
MCS606L	FDFS06L	317.00	FDH10	252.00	FDS06L	65.00
MCS610R	FDFS06R	317.00	FDH10	252.00	FDS06R	65.00
MCS610L	FDFS06L	317.00	FDH10	252.00	FDS06L	65.00
MCS620R	FDFS20R	415.00	FDH20	247.00	FDS20R	168.00
MCS620L	FDFS20L	415.00	FDH20	247.00	FDS20L	168.00

Variable Depth, Flange Mounted Max-Flex™, Types 1, 3, 3R, 12②

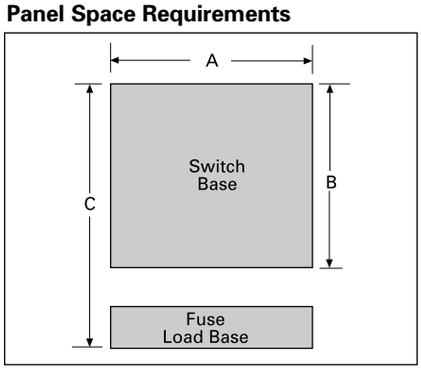
Switch Catalog Number	Complete Handle Mechanism		Handle Only		Switch Operator Only		Cable Only③	
	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
MCS603R	FHOS06036R	625.00	FHOHS	311.00	FHOS06R	161.00	FHOEC036	153.00
MCS603L	FHOS06036L	625.00	FHOHS	311.00	FHOS06L	161.00	FHOEC036	153.00
MCS606R	FHOS06036R	625.00	FHOHS	311.00	FHOS06R	161.00	FHOEC036	153.00
MCS606L	FHOS06036L	625.00	FHOHS	311.00	FHOS06L	161.00	FHOEC036	153.00
MCS610R	FHOS06036R	625.00	FHOHS	311.00	FHOS06R	161.00	FHOEC036	153.00
MCS610L	FHOS06036L	625.00	FHOHS	311.00	FHOS06L	161.00	FHOEC036	153.00
MCS620R	FHOS20036R	710.00	FHOHS	311.00	FHOS20R	222.00	FHOJC036	177.00
MCS620L	FHOS20036L	710.00	FHOHS	311.00	FHOS20L	222.00	FHOJC036	177.00

Variable Depth Rotary, Through-The-Door-Mounted, Types 1, 12④⑤

Variable Depth							Shaft Only Variable Depth	
MCS603R	CRHOS06VD	158.50	CRHOH	51.00	RHOS06	76.00	RHOSVD	31.50
MCS606R	CRHOS06VD	158.50	CRHOH	51.00	RHOS06	76.00	RHOSVD	31.50
MCS610R	CRHOS06VD	158.50	CRHOH	51.00	RHOS06	76.00	RHOSVD	31.50
MCS620R	CRHOS20VD	207.50	CRHOH	51.00	RHOS20	125.00	RHOSVD	31.50

MCS Disconnect Switch Panel Space Requirements

Panel Space Requirements



Minimum Dimensions (inches*)

Switch Catalog Number	Size	"A"	"B"	"C"	Fuse Class
MCS603	30A/240V	6.13	5.52	8.11	H, K, R
	30A/600V	6.13	5.52	10.11	H, K, R
	30A/600V	6.13	5.52	8.48	J
MCS606	60A/240V	6.13	5.52	7.86	H, K, R
	60A/600V	6.13	5.52	10.38	H, K, R
	60A/600V	6.13	5.52	8.35	J
MCS610	100A/240V	7.38	7.59	11.85	H, K, R
	100A/600V	7.38	7.59	13.85	H, K, R
	100A/600V	7.38	7.59	10.6	J
MCS620	200A/240V	9.17	9.00	14.7	H, K, R
	200A/600V	9.17	9.00	17.2	H, K, R
	200A/600V	9.17	9.00	13.32	J

"A" – Dimension is measured from each cross bail pin.

"B" – Dimension is measured from line side barrier to load side barrier.

"C" – Dimension is measured from line side terminal of switch to load side terminal of fuse load base.

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

①For Type 4 and 4X applications, order handle only Catalog Number
100A - **FDH104** (list price $**354.00**)
200A - **FDH204** (list price $**349.00**)

②For Type 4 and 4X applications, order handle only Catalog Number **FHOHS4**, List Price $**432.00**

③Standard cable length is 36 inches. Alternate lengths are available as follows:

Length	Amps	Cat. No.	List Price $
48"	30–100	FHOEC048	182.00
60"	30–100	FHOEC060	203.00
48"	200	FHOJC048	209.00
60"	200	FHOJC060	239.00

④For Type 4 and 4X applications, order handle only Catalog Number **RHOH4**, List Price $**150.00**

⑤For Type 3 and 3R applications, order handle only Catalog Number **RHOH**, List Price $**116.00**

⑥Min. enclosure depth from mounting pan to handle mounting surfaces: 30-100A 6.44 Inches
200A 10.93 Inches

*For millimeters multiply inches by 25.4.

Disconnect Switches

Type CFS Compact Fusible Switches

Features and Ordering Information

Features

- 30–400A ratings
- UL Listed & CSA Certified
- IEC 60 947-3 Certified & CE marked
- Door mounted rotary handles with defeatable cover interlock
- Meets UL requirements for both main and branch circuit applications
- Compact size
- 50 or 100KA with Class CC fuses or up to 200KA with Class J fuses
- Load break and horsepower rated
- Quick make and break operation
- All handles are padlockable with up to (3) padlocks with 5/16" hasps in the OFF position
- Catalog number **CFS361C5**, **CFS361J5** & **CNFS361** can be DIN-rail mounted and can be either front or side operated with standard rotary handles
- Handles are available in Type 1, 3R, 4/4X & 12 ratings
- NFPA 79 field installed kits are available

Switch



CFS362J

Shaft



CFSS10200H

Handle



CFSH10B4

Lugs/Accessories



CFSL200

Ordering Information

1. Select the panel mounted switch required based on Ampere, HP and AIC requirements. Switches with a right hand mechanism are standard. 30-100A switches with a left hand mechanism are available.
2. Select handle based on environmental rating required.
3. Select operating shaft (200 or 400mm in length). For enclosure depths of 9.0" or less from panel mounting surface to inside of door use 200mm long shafts. For deeper enclosures use 400mm long shafts. 30A 50kA switches can be used in 10" deep enclosures (panel to inside of door) with 200mm shaft and CFSH5 handles.

Note: Be sure to check shaft and handle compatibility with the switch selected by using the information provided in the selection tables.

4. Line & load lugs are provided as standard on 30 & 60A switches. Terminal kits are available for 100–400A switches if needed.
5. Auxiliary contacts are available if needed as follows:
   A. 30A, 50kA switch CFS361C5 and non-fusible 30A switch CNFS361 will accept up to (4) aux contacts without an aux contact holder.
   B. 30A, 50kA switch CFS361J5 will accept up to (2) aux contacts without an aux contact holder. If more than (2) aux contacts are required order aux contacts PLUS aux contact holder kit CFSAUXH1.
   C. For all 100 or 200kA 30–400A switches order the aux contacts required PLUS aux contact holder kit CFSAUXH2.
6. If non-fusible switch is required order a shorting bar for 60-600A switches or catalog number **CNFS361** for 30A.
7. All switches are supplied with line shields as standard. 30, 60 & 400A switches are also supplied with load shields. Load side terminal shroud kits are available for 100 & 200A switches.

Disconnect Switches

Type CFS Compact Fusible Switches

Switch and Handle Selection

Fusible Switches, 3-Pole 600V AC Max, 250V DC Max⑤

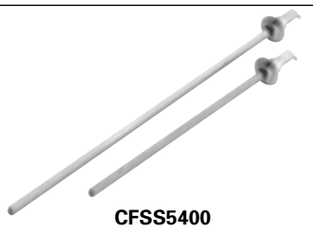
Switch Ampere Rating	Catalog Number	List Price $	Fuse Provisions Provided	Max Horsepower Ratings 240V 3Ø AC	480V 3Ø AC	600V 3Ø AC	250V DC	AC Short Circuit Rating
Standard - with Right Hand Mounted Mechanism								
30①	**CFS361C5**	**361.00**	Class CC	7.5	15	20	5③	50kA
30①	**CFS361J5**	**376.00**	Class J	7.5	15	20	5③	50kA
30①	**CFS361C**	**382.00**	Class CC	7.5	15	20	5③	100kA
30①	**CFS361J**	**424.00**	Class J	7.5	15	20	5③	200kA
30①	**CNFS361⑧**	**336.00**	None	7.5	15	20	5③	50kA
60①	**CFS362J**	**488.00**	Class J	15	30	50	10③	200kA
100②	**CFS363J**	**678.00**		30	60	75	20③	
200②	**CFS364J**	**1710.00**		60	125	150	40④	
400②	**CFS365J**	**2462.00**		125	250	350	50④	
Optional - with Left Hand Mounted Mechanism								
30①	**CFS361JL**	**452.00**	Class J	7.5	15	20	5③	200kA
60①	**CFS362JL**	**511.00**		15	30	50	10③	
100②	**CFS363JL**	**710.00**		30	60	75	20③	



CFS361J5

Operating Shafts⑤

Catalog Number	List Price $	Shaft Length In. (mm)	Switch & Handle Compatibility
CFSS5200	**34.00**	7.9 (200)	5mm x 5mm for use with CFS361C5, CFS361J5 & CNFS361 switches & with "CFSH5" handles only
CFSS5400	**36.00**	15.7 (400)	
CFSS5200H	**34.00**	7.9 (200)	5mm x 5mm for use with all "CFSH10" handles & with CFS361C5, CFS361J5 & CNFS361 switches only
CFSS5400H	**36.00**	15.7 (400)	
CFSS10200H	**36.00**	7.9 (200)	10mm x 10mm for use with all "CFSH10" handles & with all switches except CFS361C5, CFS361J5 & CNFS361
CFSS10400H	**38.50**	15.7 (400)	



CFSS5400
CFSS5200

Rotary Operating Handles—Door Mounted (for use with 50kA CFS361C5 & CFS361J5 switches only)

Type 1, 3R & 12⑥

Catalog Number	List Price $	Color	Operating Shaft Compatibility
CFSH5B12	**114.00**	Black	CFSS5200 OR CFSS5400 (5mm x 5mm)
CFSH5R12	**114.00**	Yellow & Red	



CFSH5B12

Rotary Operating Handles—Door Mounted (for use with all operating shafts except CFSS5200 & CFSS5400 and with all CFS switches)

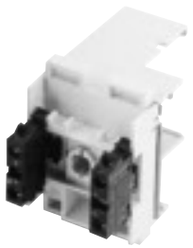
Catalog Number	List Price $	Color	Description
Type 1, 3R & 12⑦			
CFSH10B12	**137.00**	Black	Heavy duty pistol grip (3.78" long)
CFSH10R12	**137.00**	Yellow & Red	
CFSH10BL12	**143.00**	Black	Heavy duty pistol grip (6.00" long)
CFSH10RL12	**143.00**	Yellow & Red	
Type 1, 3R, 4/4X & 12⑦			
CFSH10B4	**149.00**	Black	Heavy duty pistol grip (3.78" long)
CFSH10R4	**149.00**	Yellow & Red	
CFSH10BL4	**162.00**	Black	Heavy duty pistol grip (6.00" long)
CFSH10RL4	**162.00**	Yellow & Red	

①Line and load lugs included.
②Line and load lugs are not included. Order from table on next page if required.
③DC HP rating shown requires (2) poles to be connected in series.
④DC HP rating shown requires (3) poles to be connected in series.
⑤Catalog numbers **CFS361C5** & **CFS361J5** accept 5mm x 5mm operating shafts. All others accept 10mm x 10mm operating shafts.
⑥Compact pistol grip design (3.25" long) with defeatable cover interlock. Cover can be opened when handle is padlocked in the OFF position.
⑦Defeatable cover interlock provided. Cover cannot be opened when handle is padlocked in the OFF position.
⑧Catalog number **CNFS361** is a non-fusible switch.

Disconnect Switches

Type CFS Compact Fusible Switches

Accessories



CFSAUXH2, CFSAUXINO & CFSAUXINC



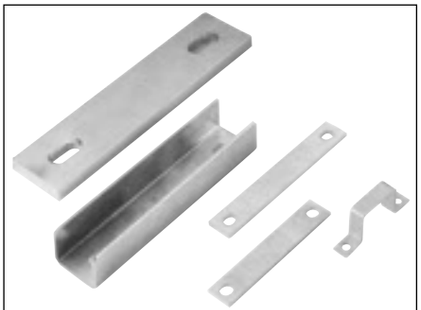
CFSL100, 200 & 400

Type CFS Fusible Switch Accessories

Catalog Number	List Price $	Description
Terminals①		
CFSL100	**71.00**	100A Lug Kit (6 lugs per kit)
CFSL200	**100.00**	200A Lug Kit (6 lugs per kit)
CFSL400	**276.00**	400A Lug Kit (6 lugs per kit)
Shorting Bars (no fuse kits)		
CFSSB60	**35.50**	60A Shorting Bar Kit (3 links per kit)
CFSSB100	**50.00**	100A Shorting Bar Kit (3 links per kit)
CFSSB200	**71.00**	200A Shorting Bar Kit (3 links per kit)
CFSSB400	**103.00**	400A Shorting Bar Kit (3 links per kit)
Auxiliary Contacts②		
CFSAUXH1②	**52.00**	Aux Contact Holder (30A 50kA Sws)
CFSAUXH2②	**52.00**	Aux Contact Holder (30–400 100 & 200kA SW)
CFSAUX1NO②	**28.00**	Aux Contact 1 NO (30–400A Sws)
CFSAUX1NC②	**28.00**	Aux Contact 1 NC (30–400A Sws)
Terminal Shrouds		
CFSTS100⑥	**84.00**	100A Shroud Kit
CFSTS200⑥	**134.00**	200A Shroud Kit
CFSTS400⑦	**155.00**	400A Shroud Kit
Padlock Kit (when door is open)③		
CFSPLK	**100.00**	Shaft Padlocking Kit for 30A Compact Switch



CFSAUXH1 & CFSAUXINO



CFS5B100 – 400

NFPA 79 Kits

Kits provide an operating shaft suitable for use with all heavy duty handles (not for use with CFSH5B12 or CFSH5R12). Kits also provide an internal operating handle & an internal OFF padlocking provision.

CFSNFPA1④	**207.00**	For use with CFS361C5 & CFS361J5
CFSNFPA2⑤	**343.00**	For use with CFS361J - CFS365J

① Supplied as standard on 30 & 60A switches.
② CFS361C5 and CNFS361 will accept (4) aux contacts without an aux contact holder. CFS361J5 will accept (2) aux contacts without an aux contact holder. ON ALL OTHER SWITCHES CFSAUXH2 IS REQUIRED TO MOUNT AUX CONTACTS.
③ Supplied as standard on all but 30A compact switches.
④ 12.6 inch (320 mm) long operating shaft included.
⑤ 11.3 inch (288 mm) long operating shaft included.
⑥ Line side terminal shrouds supplied with switch.
⑦ Supplied on both line and load side with CFS365J switch.

Disconnect Switches

Type CFS Compact Fusible Switches

Dimensions and Technical Characteristics

UL & CSA Technical Characteristics

Catalog Number	CFS361C5①	CFS361J5	CFS361C	CFS361J & CFS361JL	CFS362J & CFS362JL	CFS363J & CFS363JL	CFS364J	CFS3615J
Amp Rating	30	30	30	30	60	100	200	400
Max AC Volts	600	600	600	600	600	600	600	600
Electrical Endurance	6000	6000	6000	6000	6000	6000	6000	1000
Max Horsepower Ratings								
240V 3Ø AC	7.5	7.5	7.5	7.5	15	30	60	125
480V 3Ø AC	15	15	15	15	30	60	125	250
600V 3Ø AC	20	20	20	20	50	75	150	350
250V DC	5②	5②	5②	5②	10②	20②	40③	50③
AC Short Circuit Rating	50kA	50kA	100kA	200kA	200kA	200kA	200kA	200kA
Fuse Type (Class)	CC	J	CC	J	J	J	J	J
Electrical Endurance	6000	6000	6000	6000	6000	6000	6000	1000
Mechanical Endurance	10000	10000	10000	10000	10000	10000	8000	6000
Shaft Cross Section	5mm	5mm	10mm	10mm	10mm	10mm	10mm	10mm
Operating Torque (lb. In.)	21	21	53	88	88	88	106	132
Aux Contacts								
Nema Rating AC	A600	A600	A600	A600	A600	A600	A600	A600
Nema Rating DC	N600	N600	N600	N600	N600	N600	N600	N600

IEC Technical Characteristics

Catalog Number	CFS361C5④	CFS361J5	CFS361C	CFS361J & CFS361JL	CFS362J & CFS362JL	CFS363J & CFS363JL	CFS364J	CFS3615J
Rating Insulation Voltage Ui	800	800	750	750	750	750	750	800
Rated Impulse Voltage (Uimp)	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV
Operational Current I_e								
400V AC (AC22A & AC23A)	32	32	32	32	63	100	200	400
690V AC (AC22A & AC23A)	32	32	32	32	63	100	200	400
Motor Power (kW)								
400V AC	15	15	15	15	30	51	100	220
500V AC	18.5	18.5	18.5	18.5	40	63	140	220
690V AC	25	25	25	25	55	90	185	220
Max Peak (kA peak) let though current	5.5	5.5	7.6	17.6	17.6	22	32	36
Cu cable sie (mm^2)	6	6	6	6	10	25	50	185

Wire Ranges Line & Load Lugs

Switch Ampere Rating	UL Approved Wire Size (75°C)	Mechanical Wire Range of Lug (75°C)
30	#10 Cu	#14–10 Cu
60	#6 Cu	#10–3 Cu
100	#3 Cu	#14–2/0 Cu/Al
200	#3/0 Cu	#6–3/0 Cu/Al
400	(2) 300 kcmil Al or (2) 4/0 Cu	(2)#2–600 kcmil Cu/Al

Panel Space Requirements

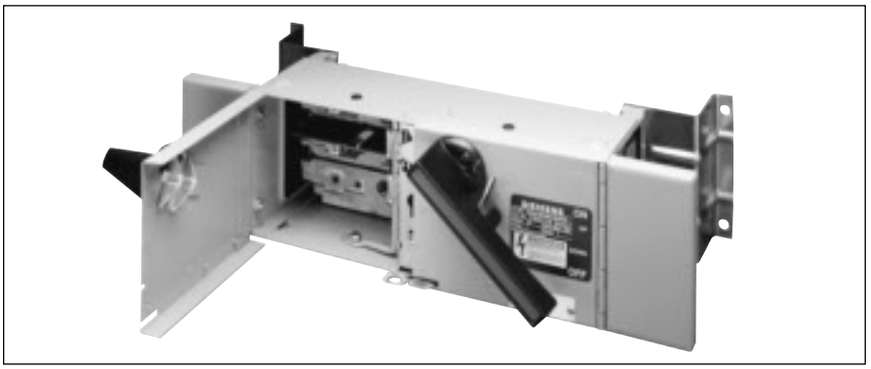
Catalog Number	Ampere Rating	Dimensions Inches (mm)		
		Height	Width	Depth⑤
CFS361C5	30	4.56 (116)	3.78 (96)	6.00 (152)
CFS361J5	30	4.56 (116)	4.15 (105)	6.00 (152)
CFS361C	30	5.88 (149)	5.62 (143)	7.00 (178)
CFS361J & CFS361JL	30	5.88 (149)	6.75 (171)	7.00 (178)
CFS362J & CFS362JL	60	5.88 (149)	6.75 (171)	7.00 (178)
CFS363J & CFS363JL	100	7.19 (183)	8.25 (210)	7.00 (178)
CFS364J	200	8.13 (206)	9.44 (240)	8.00 (203)
CFS365J	400	14.94 (363)	11.94 (303)	8.00 (203)

① Ratings also apply to catalog number **CNFS361** except the 50kA AIC rating applies when switch is protected by Class J or CC 30A max. fuses.
② DC HP rating requires (2) poles to be connected in series.
③ DC HP rating requires (3) poles to be connected in series.
④ Ratings also apply to catalog number **CNFS361**.
⑤ Minimum dimension from mounting surface to inside of cover. Dimensions shown can be decreased if aux contacts are not required.

Disconnect Switches

Type VB Panelboard Units

General



Features

Exclusive Vacu-Break® Clampmatic Arc Control — Hazardous switching arcs are safely confined and controlled in the Vacu-Break chamber.

NEMA Phasing — All line connections are phased as per NEMA Standards, i.e., left to right and top to bottom as you face the unit.

Pressure Terminal Connectors — Suitable for aluminum or copper (100 Amps or larger). All Terminal Connectors 200 Amps and larger are removable.

Connection Screws — Bullet nosed for positive location and seating of screw.

Quick-Make Quick-Break — Assured by design of cam mechanism and powerful springs. Positive operation in "ON"or "OFF" position results from design of the cross arm and Vacu-Break head linkage.

Easy Mounting — Mounting feet have captive bullet nosed screws added, which seat quickly and positively, reducing installation time.

Padlocking Member — Provides locking of handle in the "ON"or "OFF" position.

Fibre End Barriers — Insulated End Barriers prevent damage to wire during installation and are designed with openings large enough to accommodate removable lugs (200 Amps and larger units).

High Pressure Spring Reinforced Copper Fuse Clips — Provided extra pressure at the contact points. Fuse clips are removable from the front in 7½" and 10" units and from the rear of 5" units.

Voidable Cover Interlock — Permits only authorized personnel to void the door interlock and open door with switch "on." "Fool proof" mechanism will not permit door to be closed unless handle is in the correct position.

Specifications

Application

VB Panelboard Switches are intended for use in applications where:

1. Rugged constructions, reliable performance, continuity of service and ease of maintenance are emphasized, or
2. Available fault currents higher than 10,000A are likely to be encountered, in manufacturing plants, mass production industries and commercial, institutional and other large buildings served by network systems or transformers of high capacities.

Short Circuit Withstand Ratings

Suitable for use on systems capable of delivering not more than 200,000 RMS symmetrical amperes of fault current when Class J or R fuses are installed. 1200A switches are the exception, which are suitable for use on circuits capable of delivering not more than 100,000 RMS symmetrical amperes of fault current when Class L fuses are installed. Also, 100–800A switches with Class T fuses and field adapter kit, which are 200,000 RMS symmetrical rated.

Fuses

Fusible switches will accept the following UL Class fuses:
Class H
Class K
Class R or J with proper adapter kit
Class L — 800 and 1200A switches
Class T — 100–800 switches with proper adapter kit

Cover Interlocks

Voidable cover interlocks standard on all switches. Prevents cover from being opened when switch is in the "ON" position.

UL Listing

Listed by UL under file #E6849 as miscellaneous switches and also suitable for use as service equipment (where applicable). Meets UL98 standard for enclosed and deadfront switches.

NEMA Specifications

Meets NEMA standard KS-1-1990 for type HD switches.

Federal Specifications

Meets previous federal specifications W-S-865C for heavy duty switches (Type HD) Type 1 switches — general purpose enclosed (Type 1).

Switch Rating	Maximum Withstand Ratings — 240V AC					Maximum Withstand Ratings — 600V AC				
	H, K Fuses	R Fuses	J Fuses	L Fuses	T Fuses	H, K Fuses	R Fuses	J Fuses	L Fuses	T Fuses
30–30	10,000	200,000①	—	—	—	10,000	200,000	200,000	—	—
30–60	10,000	200,000	200,000	—	—	10,000	200,000	200,000	—	—
60–60	10,000	200,000	200,000	—	—	10,000	200,000	200,000	—	—
60–100	10,000	200,000	200,000	—	—	10,000	200,000	200,000	—	200,000
100	10,000	200,000	200,000	—	200,000	10,000	200,000	200,000	—	200,000
100–100	10,000	200,000	200,000	—	200,000	10,000	200,000	200,000	—	200,000
200	10,000	200,000	200,000	—	200,000	10,000	200,000	200,000	—	200,000
200–200	10,000	200,000	200,000	—	200,000	10,000	—	200,000	—	—
400	10,000	200,000	200,000	—	200,000	10,000	200,000	200,000	—	200,000
600	10,000	200,000	200,000	—	200,000	10,000	200,000	200,000	—	200,000
800	—	—	—	200,000②	200,000②	—	—	—	200,000	200,000
1200	—	—	—	100,000②	—	—	—	—	100,000	—

① 2½" units will not accept Class R or J fuse clip kits and are rated 10,000 AIC max.

② Ratings are for 600V switches and fuses when used on a 240V max. AC system.

Disconnect Switches

Type VB Panelboard Units

Selection

Fusible Units For SB1, SB2 Switchboards and F1, F2 Panelboards

Catalog Numbering System

V 7 E 3 2 3 3

Vacu-Break Unit

Width
2 = 12" 7 = 17" M = 17" (Main)

Height
A = 2½" B = 5" E = 7½" F = 10" H = 15" S = 18.75"

Number of Poles
2 3

Voltage Rating
2 = 240V 6 = 600V

Amperes
0 = Single Unit
Double 1 = 30A 2 = 60A 3 = 100A 4 = 200A

Ampere Rating
1 = 30A 2 = 60A 3 = 100A 4 = 200A 5 = 400A 6 = 600A

Example: V7E3233 = **Vacu-Break Unit, 17" Wide, 7½" High, 3-Pole, 240 Volts, Double Branch Unit with 100 Amp Rating each side. Suffix letters MS indicate Main Switch.**

Vacu-Break® Fusible Units

2-Pole①, 12" Wide — **240V AC, 250V DC**

Ampere Rating	Unit Height (inches)	Unit Depth (inches)	Horsepower Rating 240 Volt AC Standard	Horsepower Rating 240 Volt AC Maximum	Horsepower Rating 250 Volt DC	Lug Wire Range (Cu/Al) and Cables Per Pole	Unit Weight (pounds)	Catalog Number	List Price $
30–30	2½②	4½	1½	3	5	(1)–#14 to #8 (Cu Only)	5	V2A2211LR■	588.00
30–30	5	4½	1½	3	5	(1)–#14 to #8	9	V2B2211LR■	758.00
30–60	5	4½	1½–3	3–10	5–10	(1)–#14 to #4	9	V2B2212LR■	837.00
60–60	5	4½	3	10	10	(1)–#14 to #4	9	V2B2222LR■	837.00
100	7½	6¾	7½	15	20	(1)–#10 to #1/0	14	V2E2203LR■	671.00
200	7½	6¾	15	—	40	(1)–#6 to 250 kcmil	19	V2E2204LR■	1175.00

3-Pole — **240V AC, 250V DC**

Ampere Rating	Unit Height (inches)	Unit Depth (inches)	Horsepower Rating 240 Volt AC Standard	Horsepower Rating 240 Volt AC Maximum	Lug Wire Range (Cu/Al) and Cables Per Pole	Unit Weight (pounds)	Catalog Number	List Price $
Branch Circuits, 12" Wide Units								
30–30	2½②	4½	3	7½	(1)–#14 to #8 (Cu Only)	5	V2A3211■	652.00
30–30	5	4½	3	7½	(1)–#14 to #8	9	V2B3211■	943.00
30–30	5	4½	3	7½	(1)–#14 to #8	9	V2B3211R③■	1007.00
30–60	5	4½	3–7½	7½–15	(1)–#14 to #4	9	V2B3212■	943.00
30–60	5	4½	3–7½	7½–15	(1)–#14 to #4	9	V2B3212R③■	1007.00
60–60	5	4½	7½	15	(1)–#14 to #4	9	V2B3222	943.00
60–60	5	4½	7½	15	(1)–#14 to #4	9	V2B3222R③■	1007.00
100	7½	6¾	15	30	(1)–#10 to #1/0	14	V2E3203	758.00
200	10	6¾	25	60	(1)–#6 to 250 kcmil	21	V2F3204	1473.00
Main Switch④, 12" Wide Units, Back Connected								
200	10	6¾	25	50	⑤	21	V2F3204MS■	1473.00

For inches / millimeters conversion, multiply inches by 25.4.

■ Built to order. Allow 2–3 weeks for delivery.
① These units are available in LR (left, right) connection figurations only.
② This unit is not a Vacu-Break unit, but rather operates on a sliding contact, double break principle. Rated 10,000 AIC max. with either Class H or K fuses. Will not accept Class R fuse clip kits.
③ Units set up for R-fuse application only.
④ For 2-pole main switch (200A), use 3-pole main switch Vacu-Break unit.
⑤ Load-side furnished with spade type bolted terminal pads.

Disconnect Switches

Type VB Panel Units

Selection

Vacu-Break® Fusible Units for SB1, SB2 Switchboards and F1, F2 Panelboards

Ampere Rating	Unit Height (inches)	Unit Depth (inches)	Horsepower Rating 240 Volt AC Standard	Horsepower Rating 240 Volt AC Maximum	Horsepower Rating 250 Volt DC	Lug Wire Range (Cu/Al) and Cables Per Pole	Unit Weight (pounds)	Catalog Number	List Price $
2-Pole①, Branch Circuits, 17" Wide Units									**240V AC, 250V DC**
30–30	2½②	6¾	1½	3	5	(1)–#14 to #8 (Cu Only)	5	V7A2211__①③■	652.00
30–30	5	6¾	1½	3	5	(1)–#14 to #8	9	V7B2211__①❍	837.00
30–30	5	6¾	1½	3	5	(1)–#14 to #8	9	V7B2211_①_R⑤	933.00
30–60③	5	6¾	1½ –3	3–10	5–10	(1)–#14 to #4	9	V7B2212LR④■	931.00
30–60③	5	6¾	1½ –3	3–10	5–10	(1)–#14 to #4	9	V7B2212LRR⑤■	994.00
60–60	5	6¾	3	10	10	(1)–#14 to #4	9	V7B2222__①③	931.00
60–60	5	6¾	3	10	10	(1)–#14 to #4	9	V7B2222_①_R⑤	994.00
60–100③	7½	6¾	3–7½	10–15	10–20	(1)–#10 to #1/0	18	V7E2223LR④■	1090.00
100–100	7½	6¾	7½	15	20	(1)–#10 to #1/0	20	V7E2233__①❍	1090.00
100	7½	6¾	7½	15	20	(1)–#10 to #1/0	14	V7E2203LR④	863.00
200	7½	6¾	15	__	40	(1)–#6 to 250 kcmil	21	V7E2204__①❒	1241.00
400③	15	10½	—	—	50	(1)–#1/0 to 500 kcmil or (2)–#1/0 to 300 kcmil	63	V7H2205LR④	2947.00
600③	15	10½	—	—	—	(2)–#4/0 to 500 kcmil	63	V7H2206LR④■	3410.00
2-Pole, Main Switch, 17" Wide Units, Back Connected									**240V AC, 250V DC**
200③	7½	6¾	15	—	40	⑦	21	V7E2204MS④■	1241.00
400③	15	10½	—	—	50	⑦	63	V7H2205MS④	2947.00
600③	15	10½	—	—	—	⑦	63	V7H2206MS④	3410.00
3-Pole, Branch Circuits, 17" Wide Units									**240V AC**
30–30	2½②	6¾	3	7½	—	(1)–#14 to #8 (Cu Only)	5	V7A3211	721.00
30–30	5	6¾	3	7½	—	(1)–#14 to #8	9	V7B3211	991.00
30–30	5	6¾	3	7½	—	(1)–#14 to #8	9	V7B3211R⑤	1052.00
30–60	5	6¾	3–7½	7½–15	—	(1)–#14 to #4	9	V7B3212	991.00
30–60	5	6¾	3–7½	7½–15	—	(1)–#14 to #4	9	V7B3212R⑤	1052.00
60–60	5	6¾	7½	15	—	(1)–#14 to #4	9	V7B3222	991.00
60–60	5	6¾	7½	15	—	(1)–#14 to #4	9	V7B3222R⑤	1052.00
60	7½	6¾	7½	15	—	(1)–#14 to #4	13	V7E3202	834.00
60–100	7½	6¾	7½–15	15–30	—	(1)–#10 to #1/0	18	V7E3223	1296.00
100–100	7½	6¾	15	30	—	(1)–#10 to #1/0	20	V7E3233	1296.00
100–100	7½	6¾	15	30	—	(1)–#10 to #1/0	20	V7E3233R⑤	1509.00
100	7½	6¾	15	30	—	(1)–#10 to #1/0	14	V7E3203	834.00
200–200	10	6¾	25	60	—	(1)–#6 to 250 kcmil	40	V7F3644⑥	3192.00
200–200	10	6¾	25	60	—	(1)–#6 to 250 kcmil	40	V7F3244R⑤	3334.00
200	10	6¾	25	60	—	(1)–#6 to 250 kcmil	21	V7F3204	1519.00
400	15	10½	50	125	—	(1)–#1/0 to 500 kcmil or (2)–#1/0 to 300 kcmil	63	V7H3205	3410.00
400	15	10½	50	125	—	(1) 250 to 750 kcmil or (2) 1/0 to 300 kcmil	63	V7H3205750	3410.00
600	15	10½	75	200	—	(2)–#4/0 to 500 kcmil	63	V7H3206	3835.00
3-Pole, Main Switch, 17" Wide Units (Vertical Mount, Top Feed, Front Connected)									**240V AC**
400	18.75	10⅜	50	125	—	—	—	VMS325T	3410.00
600	18.75	10⅜	75	200	—	—	—	VMS326T	3835.00
3-Pole, Main Switch, 17" Wide Units (Vertical Mount, Bottom Feed, Front Connected)									**240V AC**
400	18.75	10⅜	50	125	—	—	—	VMS325B	3410.00
600	18.75	10⅜	75	200	—	—	—	VMS326B	3835.00
3-Pole, Main Switch, 17" Wide Units, Back Connected									**240V AC**
100	7½	6¾	15	30	—	⑦	14	V7E3203MS	959.00
200	10	6¾	25	60	—	⑦	21	V7F3204MS	1519.00
400	15	10½	50	125	—	⑦	63	V7H3205MS	3410.00
600	15	10½	75	200	—	⑦	63	V7H3206MS	3835.00

For inches / millimeters conversion, multiply inches by 25.4.

■ Built to order. Allow 2–3 weeks for delivery.
❒ MR suffix. Built to order. Allow 2–3 weeks for delivery.
❍ MR, LM suffix. Built to order. Allow 2–3 weeks for delivery.

① Order 2-pole branch circuit units by adding appropriate connection designation LM, LR or MR (indicating Left, Middle and Right, facing the panel).
② This unit is not a Vacu-Break unit, but rather operates on a sliding contact, double break principle. Rated 10,000 AIC max. with either Class H or K fuses. Will not accept Class R fuse clip kits.
③ MR not available.
④ Available as Type LR connection designation only.
⑤ Switches set up for R-fuse applications only.
⑥ Rated 600 Volts but factory configured to accept 250V Class H, K or R fuses. Field convertible for Class J fuses for 600V applications. Field convertible for 300V Class T fuse with TFAK42 kit.
⑦ Load-side furnished with spade type bolted terminal pads.

Discount Schedule VBSS

Disconnect Switches

Type VB Panel Units

Selection

Vacu-Break® Fusible Units For SB1, SB2 Switchboards and F1, F2 Panelboards

Ampere Rating	Unit Height (inches)	Unit Depth (inches)	Horsepower Rating 480 Volt AC Standard	480 Volt AC Maximum	600 Volt AC Standard	600 Volt AC Maximum	Lug Wire Range (Cu/Al) and Cables Per Pole	Unit Weight (pounds)	Catalog Number	List Price $
2-Pole, Branch Circuits, 17" Wide Units①										**600V AC, 250V DC**
30–30	7½	6¾	3	7½	3	10	(1)–#14 to #8	14	**V7E2611LR⑧■**	**1063.00**
30–60	7½	6¾	3–5	7½–20	3–5	20–25	(1)–#14 to #4	14	**V7E2612LR⑧■**	**1063.00**
60–60	7½	6¾	5	20	10	25	(1)–#14 to #4	14	**V7E2622LR⑧■**	**1063.00**
100	7½	6¾	10	20	15	40	(1)–#10 to #1/0	14	**V7E2603LR⑧■**	**753.00**
200	10	6¾	25	50	30	50	(1)–#6 to 250 kcmil	21	**V7F2604LR⑧■**	**1657.00**
400	15	10½	—	—	—	—	(1)–#1/0 to 500 kcmil	63	**V7H2605MR⑥◆**	**3410.00**
3-Pole, Branch Circuits, 17" Wide Units										**600V AC, 250V DC**
30–30	7½	6¾	5	15	7½	20	(1)–#14 to #8	14	**V7E3611**	**1364.00**
30–30	7½	6¾	5	15	7½	20	(1)–#14 to #8	14	**V7E3611R⑦**	**1568.00**
30	7½	6¾	5	15	7½	20	(1)–#14 to #8	14	**V7E3601**	**931.00**
30–60	7½	6¾	5–15	15–30	7½–15	20–50	(1)–#14 to #4	14	**V7E3612**	**1364.00**
60–60	7½	6¾	15	30	15	50	(1)–#14 to #4	14	**V7E3622**	**1364.00**
60–60	7½	6¾	15	30	15	50	(1)–#14 to #4	14	**V7E3622R⑦**	**1568.00**
60	7½	6¾	15	30	15	30	(1)–#14 to #4	14	**V7E3602**	**931.00**
60–100	7½	6¾	15–25	30–60	15–30	50–75	(1)–#10 to #1/0	18	**V7E3623**	**1915.00**
100–100	7½	6¾	25	60	30	75	(1)–#10 to #1/0	20	**V7E3633**	**1915.00**
100–100	7½	6¾	25	60	30	75	(1)–#10 to #1/0	20	**V7E3633R⑦**	**2057.00**
100	7½	6¾	25	60	30	75	(1)–#10 to #1/0	14	**V7E3603**	**931.00**
200–200	10	6¾	50	125	60	150	(1)–#6 to 250 kcmil	40	**V7F3644J②**	**3192.00**
200	10	6¾	50	125	60	150	(1)–#6 to 250 kcmil	21	**V7F3604**	**1736.00**
200	10	6¾	50	125	60	150	(1)–#6 to 250 kcmil	21	**V7F3604R⑦**	**1808.00**
400	15	10½	100	250	125	350	(1)–#1/0 to 500 kcmil or (2)–#1/0 to 300 kcmil	63	**V7H3605**	**4033.00**
400	15	10½	100	250	125	350	(1)–250 to 750 kcmil or (2)–#1/0 to 300 kcmil	63	**V7H3605750**	**4033.00**
600	15	10½	150	400	200	500	(2)–#4/0 to 500 kcmil	63	**V7H3606**	**4164.00**
3-Pole, Main Switch, 17" Wide Units (Vertical Mount, Top Feed, Front Connected)										**600V AC, 250V DC**
400	18.75	10⅜	100	250	125	350	③	—	**VMS365T**	**4033.00**
600	18.75	10⅜	150	400	200	500	③	—	**VMS366T**	**4164.00**
3-Pole, Main Switch, 17" Wide Units (Vertical Mount, Bottom Feed, Front Connected)										**600V AC, 250V DC**
400	18.75	17 11/16	100	250	125	350	③	—	**VMS365B**	**4033.00**
600	18.75	17 11/16	150	400	200	500	③	—	**VMS366B**	**4164.00**
3-Pole, Main Switch, 17" Wide Units, Back Connected										**600V AC, 250V DC**
100	7½	6¾	25	50	30	50	③	14	**V7E3603MS■**	**931.00**
200	10	6¾	50	125	60	150	③	21	**V7F3604MS■**	**1736.00**
400	15	10½	100	250	125	350	③	63	**V7H3605MS**	**4033.00**
600	15	10½	150	400	200	500	③	63	**V7H3606MS**	**4164.00**
3-Pole, Switchboard Units, 21" Wide Units, Front Connected⑤										**600V AC, 250V DC**
800	25	12¾	200	500	250	500	—	160	**VF357TL** or BL④❍	**9327.00**
1200	25	12¾	—	—	—	—	—	160	**VF358TL** or BL④	**9568.00**
3-Pole, Switchboard Units, 21" Wide, Back Connected										**600V AC, 250V DC**
800	25	12¾	200	500	250	500	—	160	**VB357TL** or BL④■	**8573.00**
1200	25	12¾	—	—	—	—	—	160	**VB358TL** or BL④■	**8993.00**

■ Built to order. Allow 2–3 weeks for delivery.
◆ MR suffix only is available and built to order. Allow 2–3 weeks for delivery.
❍ BL suffix. Built to order. Allow 2–3 weeks for delivery.
① Catalog number for 2-pole branch circuit units indicate connection designation LM, LR or MR (indicating Left, Middle and Right, facing the panel).
② Unit configured to accept class J fuses only. Also accepts 300V Class T fuses when used with TFAK42 adapter kit.
③ Load-side furnished with spade type bolted terminal pads.
④ Suffix "T" or "TL" indicates Top Feed. Suffix "B" or "BL" indicates Bottom Feed.
⑤ Back connected units are also available. Substitute the letter "B" (back connected) for the letter "F" (front connected) in the prefix of the catalog number. All other features are identical.
⑥ Available as Type MR designation only.
⑦ Switches set up for R-fuse applications only.
⑧ Available as Type LR designation only.

Disconnect Switches

Type VB Panelboard Units, Accessories

Selection

Extension Kits

To extend Vacu-Break unit's depth, order the extension kit which meets the specifications of the unit to be extended. Specify by catalog number from the table below.

Unit Type	Unit Height (inches)	Normal Unit Depth (inches)	Extended Unit Depth (inches)	Catalog Number	List Price $
V2A	2½	4 9/16	6¾	**W43000■**	**41.50**
V2B	5	4 9/16	6¾	**W43002**	**41.50**
V7A	2½	6¾	10½	**W48762**	**114.00**
V7B	5	6¾	10½	**W48763**	**121.00**
V7E	7½	6¾	10½	**W48764**	**154.00**
V7F	10	6¾	10½	**W48765**	**181.00**

Fuse Adapter Kits

Class R and Class J Fuse Kits are single unit part numbers. Order (2) kits for dual units. Class T Fuse Kits are single pole part numbers. Order (3) kits for a 3-pole unit. To order the kit which meets the specifications of the unit to be changed, specify by catalog number from the tables below.

240 Volt Fuse Adapter Kits

Switch Amperage	Class R Kits		Class J Kits		Class T Kits	
	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
30②	**Factory Inst.**	—	—	—	—	—
60	**W56628**	**91.00**	**W49829**	**163.00**	—	—
100	**W55365**	**61.00**	**W49827**	**131.00**	**TFAK32**	**76.00**
200	**W55366**	**61.00**	**W49819**	**131.00**	**TFAK42**	**102.00**
400	**W55367**	**91.00**	**W49814**	**330.00**	**TFAK52**	**102.00**
600	**W55368**	**91.00**	**W49813**	**459.00**	**TFAK62**	**120.00**

600 Volt Fuse Adapter Kits

Switch Amperage	Class R Kits		Class J Kits		Class T Kits	
	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
30	**W56623**	**85.00**	**W49832**	**163.00**	—	—
60	**W56629**	**85.00**	**W49830**	**163.00**	—	—
100	**W55365**	**61.00**	**W49828**	**131.00**	**TFAK35**	**120.00**
200	**W55366**③	**61.00**	**W49818**①	**163.00**	**TFAK45**	**143.00**
400	**W55367**	**91.00**	**W49816**	**395.00**	**TFAK55**	**151.00**
600	**W55368**	**91.00**	**W49815**	**330.00**	**TFAK65**	**174.00**
800	—	—	—	—	**TFAK75**	**238.00**

Vacu-Break Connecting Strap Kits For Panelboards and Switchboards

Ampere Rating	240V Unit Height (inches)	600V Unit Height (inches)	S4/F1, FPP (10" Deep) Strap Kit	List Price $	S5/F2 (12.75" Deep) Strap Kit	List Price $	SB1, SB2, SB3, FC-20, FC-1 VB-5, VB-6, Strap Kit	List Price $
30–30	2.5	—	**F602**	**46.00**	**F602D**	**210.00**	—	—
30–30	5	7.5	**F657**	**46.00**	**F657D**	**254.00**	**VB657**	**302.00**
30-60	5	7.5	**F657**	**46.00**	**F657D**	**254.00**	**VB657**	**302.00**
60–60	5	7.5	**F657**	**46.00**	**F657D**	**254.00**	**VB657**	**302.00**
60-100	7.5	7.5	**F657**	**46.00**	**F657D**	**254.00**	**VB657**	**302.00**
100-100	7.5	7.5	**F657**	**46.00**	**F657D**	**254.00**	**VB657**	**302.00**
100	7.5	7.5	**F657**	**46.00**	**F657D**	**254.00**	**VB657**	**302.00**
200	7.5, 10	7.5, 10	**F671**	**70.00**	**F671D**	**393.00**	**VB671**	**471.00**
200–200	10	10	**F672**	**430.00**	**F672D**	**430.00**	—	—
400	15	15	—	—	—	—	**VB6150**	**211.00**
600	15	15	—	—	**F6150D**	**186.00**	**VB6150**	**211.00**

For inches / millimeters conversion, multiply inches by 25.4.

■ Built to order. Allow 2–3 weeks for delivery.

① For 200 A single units only. Dual units are suitable for Class J only, when used above 240V.
② 5" unit height switches only.
③ For single units only.

Disconnect Switches

Type HCP Switchboard Units, Accessories

Selection

Features

- UL Listed under file number E6849 Vol 1, Sect. 8
- 400-1200A ratings
- Visible contacts
- Field installable shunt trip and auxiliary switch accessory kits
- Installs in existing Siemens switchboards and power panelboards
- Suitable for use on systems with up to 200,000A available fault current, RMS symmetrical when equipped with Class J or Class L fuses
- Group mounts with other 30A through 600A switches, and 100 through 1200 amp frame breakers
- Allows 800A and 1200A switches in standard 38" wide distribution sections in either main or branch configurations
- 16¼" mounting height is the smallest 1200A design in the industry, allowing up to 4 units in one vertical section
- Field reversible horizontal mounting design for left or right hand cabling
- Handle can be padlocked in the OFF position with up to three padlocks with 5/16" hasps. A cover padlocking provision is also supplied



3-Pole, Horizontal Mount ①

Catalog Number	Maximum Ampere Rating	Maximum AC Voltage Rating②	Fuse Class	Dimensions (inches*)			Horsepower Rating							List Price $
							240V		480V		600V		250V DC	
				H	W	D	Std	Max	Std	Max	Std	Max		
HCP367HJ400	400	600	J	16.25	17.22	7.38	50	125	100	250	125	350	40	**5117.00**
HCP367HJ600	600	600	J	16.25	17.22	7.38	75	200	150	400	200	400	40	**5751.00**
HCP327HT	800	240	T	16.25	17.22	7.38	100	250	—	—	—	—	50	**11366.00**
HCP367H	800	600	L	16.25	17.22	7.38	100	250	200	500	250	500	50	**10724.00**
HCP328HT	1200	240	T	16.25	17.22	7.38	100	250	—	—	—	—	50	**12626.00**
HCP368H	1200	600	L	16.25	17.22	7.38	100	250	200	500	250	500	50	**10998.00**

3-Pole, Vertical Mount

HCP367VJ400	400	600	J	17.00	16.25	7.38	50	125	100	250	125	350	40	**5117.00**
HCP367VJ600▲	600	600	J	17.00	16.25	7.38	75	200	150	400	200	400	40	**5751.00**
HCP327VT	800	240	T	17.00	16.25	7.38	100	250	—	—	—	—	50	**11366.00**
HCP367V	800	600	L	17.00	16.25	7.38	100	250	200	500	250	500	50	**10724.00**
HCP328VT	1200	240	T	17.00	16.25	7.38	100	250	—	—	—	—	50	**12626.00**
HCP368V	1200	600	L	17.00	16.25	7.38	100	250	200	500	250	500	50	**10998.00**

Accessories

Terminal Connectors (one lug per kit)

Ampere Rating	Catalog Number	Connector Wire Range	List Price $
400–600A	**TA2K500**	(2) #1 AWG–500 kcmil (Cu or Al)	**71.00**
400–600A	**TC2K500**	(2) #1 AWG–500 kcmil (Cu only)	**120.00**
400–800A	**TA3K500**	(3) #1 AWG–500 kcmil (Cu or Al)	**98.00**
400–800A	**TC3K350**	(3) #1 AWG–350 kcmil (Cu only)	**151.00**
800-1200A	**TA4H500**	(4) #2 AWG–500 kcmil (Cu or Al)	**182.00**
800-1200A	**TA3H750**	(3) 250–750 kcmil (Cu or Al)	**278.00**

T Fuse Adapter Kits (one per pole)

Catalog Number	Description	List Price $
TFAK72	800A, 300V AC	**214.00**
TFAK75	800A, 600V AC	**238.00**
TFAK82	1200A, 300V AC	**543.00**

Auxiliary Switch Kits

Contact Ampere Rating	Maximum Voltage		Switch Mounting	Contacts	Catalog Number	List Price $
	AC	DC				
15A	480	125	Left Pole	1NO/1NC	**A01HCPL4▲**	**361.00**
15A	480	125	Right Pole	1NO/1NC	**A01HCPR4**	**361.00**

Compression Lug Adapter Kit

The use of this kit provides for the mounting of up to four lugs per phase. Each kit accepts lugs with (2) 3/8" diameter mounting holes on 1" centers. One kit per pole line or load is required. Lugs are not provided.

Ampere Rating	Catalog Number	List Price $
400–1200A	**HCPCLP**	**274.00**

Shunt Trip Kit

Control Voltage		Catalog Number	List Price $
AC	DC		
120	—	**HCPST120**	**798.00**
240	—	**HCPST240▲**	**798.00**
277	—	**HCPST277**	**798.00**
480	—	**HCPST480▲**	**798.00**
—	48	**HCPST48▲**	**798.00**
—	125	**HCPST125▲**	**798.00**

Switchboard Connection Strap Kit ①

Switch Ampere Rating	Catalog Number	List Price $
400–1200A	**F6162D**	**1366.00**

***For inches / millimeters conversion, multiply inches by 25.4.**

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

① For horizontal mounting only in either 38" wide min switchboards or S5/F2 power panelboards.

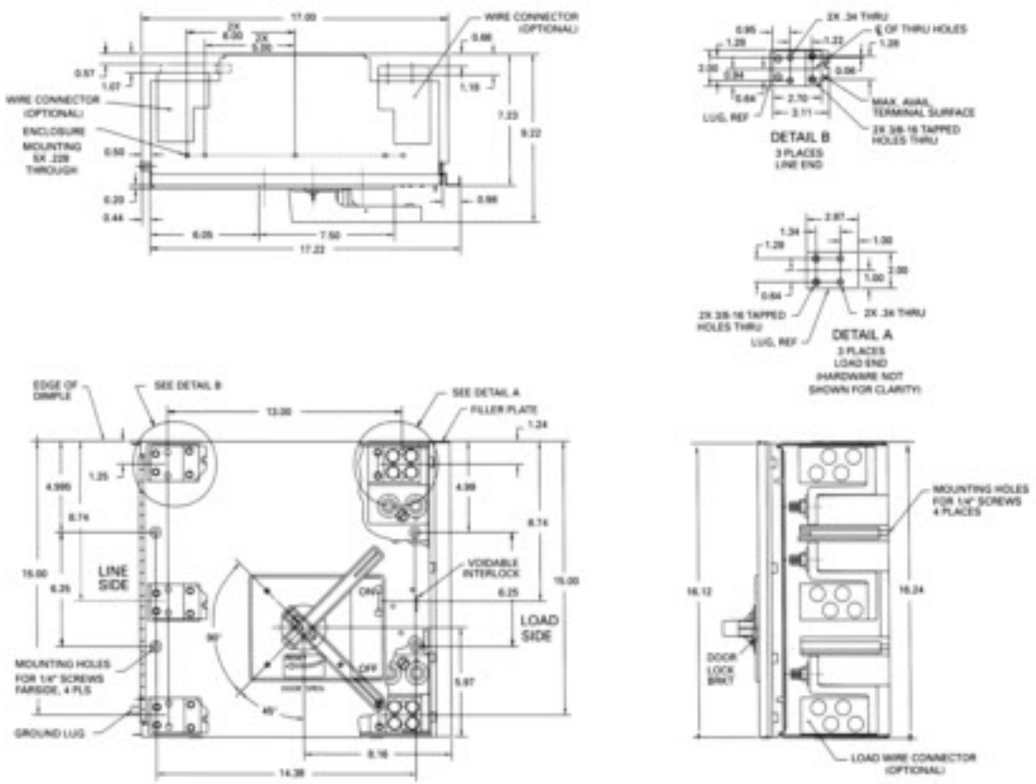
② Both 240 and 600V AC switches are also rated 250V DC max.

Disconnect Switches

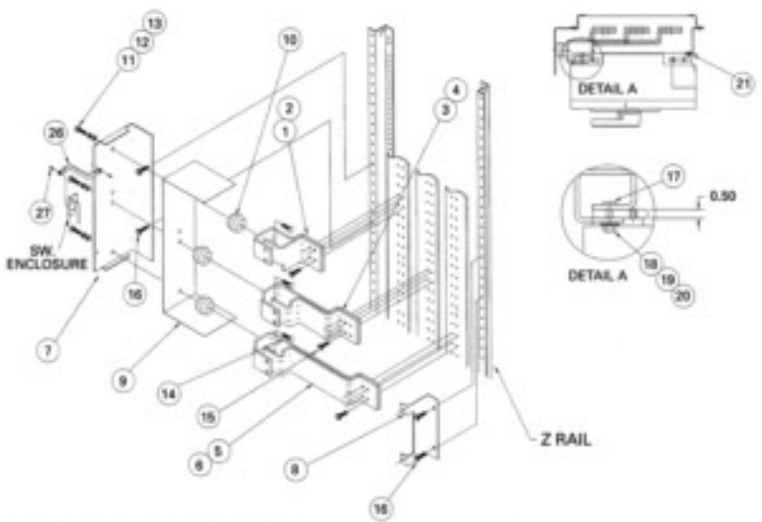
Type HCP Switchboard Units

Dimensions

Horizontal Mount Drawing



Group Mounting Assembly (Horizontal Mount Only)



Note: Right exit shown, rotate 180° for left exit
Note: Items 26 & 27 are used to ground the switch enclosure (Route bonding wire along flange)

Item	Parts Supplied in Connection Strap Kit Cat. No. F6162D	Qty.
1-2	A/C Ø Strap (Short)	1ea.
3-4	B Ø Strap	1ea.
5-6	A/C Ø Strap (Long)	1ea.
7-8	Switch Mounting Bracket	1ea.
9	Insulation	1
10	1-3/8" Insulator	3
11	3/8-16 X 3/4" HHMS	3
12	3/8" Lock Washer	3
13	3/8" Flat Washer	3
14	3/8-16 X 3/4" RHSNB	3
15	Strap Bus Hardware Kit	2
16	1/4-28 X 3/8" SHWHSW	4
17	5/16-18 Insert	6
18	5/16-18 X 1" SRHMS	6
19	5/16 Flat Washer	6
20	5/16 Lock Washer	6
21	1/4-20 X 1" SRHMS	2
26	Ground Bracket	1
27	10-32 X 1/4" SHWHSW	2

Disconnect Switches

Type TFP Fusible Pullouts

Selection/Dimensions

Features

Type TFP Fusible Pullouts

- 100 and 200 Ampere Disconnects
- 240 Volt and 600 Volt Designs
- Class T Fuses
- Factory Installed Wire Connectors
- U.L. Listed for applications up to 200,000 Amps symmetrical at 600 Volts
- Physically interchangeable with Siemens Type QJ2, QJH2 and QJ2-H
- UL 1429, File No. E118778



T-Fuse Pullout
TFP223

T-Fuse Pullouts

2-Pole, 2-Fuse

Maximum Voltage	Ampere Rating	Catalog Number	Connector Wire Range①	List Price $
240②	100 200	**TFP223** **TFP224**	(1 pc.) #6-300 kcmil Cu (1 pc.) #4-300 kcmil Al	**540.00** **726.00**

3-Pole, 3-Fuse

240②	100 200	**TFP323** **TFP324**	(1 pc.) #6-300 kcmil Cu (1 pc.) #4-300 kcmil Al	**652.00** **873.00**
600	100 200	**TFP363** **TFP364**		**807.00** **1103.00**

Fuses — Not included. Consult local sales office for replacement parts.

Fusible Pullouts Dimensions (inches*)



Class T Pullout Mounting Hardware
Catalog Number **MSQJ** (Includes 4 screws)

For inches / millimeters conversion, multiply inches by 25.4.

① Replacement terminal lug Catalog Number **TA1Q300**.
② 240 bolt pullouts require 300 volt Class T fuses.