

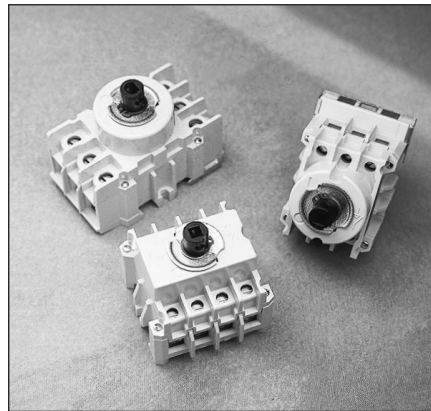
Disconnect Switches

Compact Non-Fusible—Rotary and Toggle

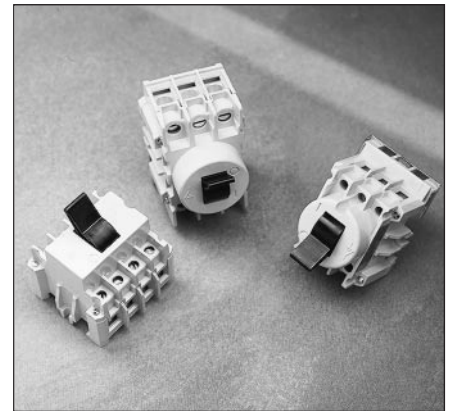
Selection

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, 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

Application

Siemens Load Break Switches are listed as manual motor controllers and are suitable as motor disconnects. They act as enclosure disconnects when short circuit protection is provided upstream of the switch. If protection is not provided upstream, use a Siemens Fusible Heavy Duty or Type MCS Disconnect Switch.



3LD2254-0TK51

Ordering Information

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

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

Individual Components are ordered as follows:

25A — LBR3025D switch + LBRH3 or 4 handle.

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

Notes: (LBR Type switches only)

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

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

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

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

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

Short Circuit Withstand Ratings

Switch Rating & Type	Max. Line Side Fuse Rating
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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.
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Door Mounted Complete Assemblies (Operator, Shaft, & Switch) 600V AC Max.

Catalog Number		Number of Poles	Ampere Rating	AC Horsepower Ratings				
With Black Handle	With Red & Yellow Handle			120V 1Ø	240V 1Ø 3Ø	480V 3Ø	600V 3Ø	
3LD2154-0TK51	3LD2154-0TK53▲	3	25	2	3	7½	10	15
3LD2154-1TP51	3LD2154-1TP53▲	3 ^①						
3LD2154-1TL51	3LD2154-1TL53▲	3 + N						
3LD2154-2EP51	3LD2154-2EP53	3 + N ^①						
3LD2254-0TK51	3LD2254-0TK53	3	32	2	3	10	20	20
3LD2254-1TL51	3LD2254-1TL53	3 + N						
3LD2555-0TK51	3LD2555-0TK53	3	63	—	10	15	40	50

① Includes auxiliary contacts (1 NO and 1 NC)

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

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		480V 3Ø	600V 3Ø	List Price Each \$
						1Ø	3Ø			
LBR3025	Rotary	3	25	480	¾	2	5	10	—	
LBR3025D ^②	Rotary	3	25	480	¾	2	5	10	—	
LBR3040 ^③	Rotary	3	40	600	2	3	7½	20	25	
LBR3060 ^③	Rotary	3	60	480	2	5	10	25	—	
LBR3080 ^③	Rotary	3	80	600	3	10	20	40	50	
LBR3100 ^③	Rotary	3	100	480	5	15	25	50	—	
LBR4040	Rotary	4	40	480	2	3	7½	20	—	
LBT3040	Toggle	3	40	600	2	3	7½	20	25	
LBT3060	Toggle	3	60	480	2	5	10	25	—	
LBT3080	Toggle	3	80	600	3	10	20	40	50	
LBT3100	Toggle	3	100	480	5	15	25	50	—	
LBT4040	Toggle	4	40	480	2	3	7½	20	—	



Rotary Switch Door Handles



Rotary Switch Direct Mount Handles

LBR Type Handles

Catalog Number	Used on Rotary Switches	NEMA Type	Mounting	Marking	Color	Cover Interlock Supplied	Padlockable	List Price Each \$
LBRH2 ^②	All	1	Door	ON/OFF	Black	No	No	
LBRH3 ^②	All	1, 3R, 12, 4X	Door	O/I, ON/OFF	Black	Yes ^①	Yes	
LBRH4 ^②	All	1, 3R, 12, 4X	Door	O/I, ON/OFF	Red/Yel	Yes ^①	Yes	
LBRH9 ^②	All (Pistol Grip Type)	1, 3R, 12, 4X	Door	O/I, ON/OFF	Black	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	

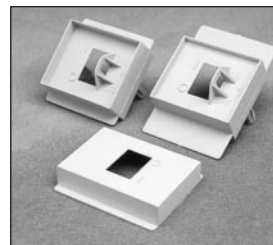
Note: If a replacement collar is required for the 25 Amp rotary switch, order LBRC1. For 40-100 Amp rotary switch, order LBRC2.

LBR Type Rotary Shafts

Catalog No	Length In. (mm)	List Price \$
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)	



Rotary Shafts



Toggle Switch Cover Plates

25 Amp, 4th Pole

Used on Catalog No	Catalog No	List Price \$
LBR3025	LBRP25	
LBR3025D	LBRP25D	
3LD21 & 2	3LD9220-0B ^③	
3LD25	3LD9250-0B ^③	

Auxiliary Switch Kits

Used on Rotary Switch	Catalog Number	Contact Arrangement	List Price Each \$
LBR3025	LBRA25 ^④	1 NO/1 NC	
LBR3025D	LBRA25D ^④	1 NO/1 NC	
LBR3040, LBR3060	LBRA1 ^④	1 NO/1 NC with common point	
LBR3080, LBR3100	LBRA2 ^④	1 NO/1 NC with common point	
3LD21 & 22	3LD9220-3B ^⑤ 3LD9220-5B ^⑤	1 NO 1 NO/1 NC	
3LD25	3LD9250-3B ^⑤ 3LD9250-5B ^⑤	1 NO 1 NO/1 NC	

LBR Type Toggle Switch Cover Plate

Used on Toggle Switches	Catalog Number	List Price Each \$
LBT3040, LBT3060 LBT3080, LBT3100 LBT4040	LBTCP1 LBTCP2 LBTCP3	

LBR Type Rotary Switch

Door Mounting Kit

(For use with LBRH3 & LBRH4 only)

Used on Rotary Switch	Catalog Number	List Price Each \$
40-100 Amps	LBRD1	

Neutral Kit^⑥

Used with Catalog Number	Catalog Number	List Price Each \$
All	HF63CX	
3LD21 & 2 3LD25	3LD9220-0B ^⑤ 3LD9250-0B ^⑤	

① No cover interlock defeat mechanism provided. If required to open the enclosure door when the switch is on, 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 Ratings

10A at 120V AC

6A at 240V AC

1.4A at 480V AC

⑥ Lug wire ranges:

HF63CX—(1) #14-2 AWG 60/75°C Cu only

3LD9220-0B—(1) #14-10 AWG 60/75°C Cu only

3LD9250-0B—(1) #14-6 AWG 60/75°C Cu only

⑦ Only door mountable and for use with LBRH3 & 4 handles only.

⑧ For door mounting of 40-100A LBR switches use door mounting kit LBRA1 & LBRH3 or 4 handle.

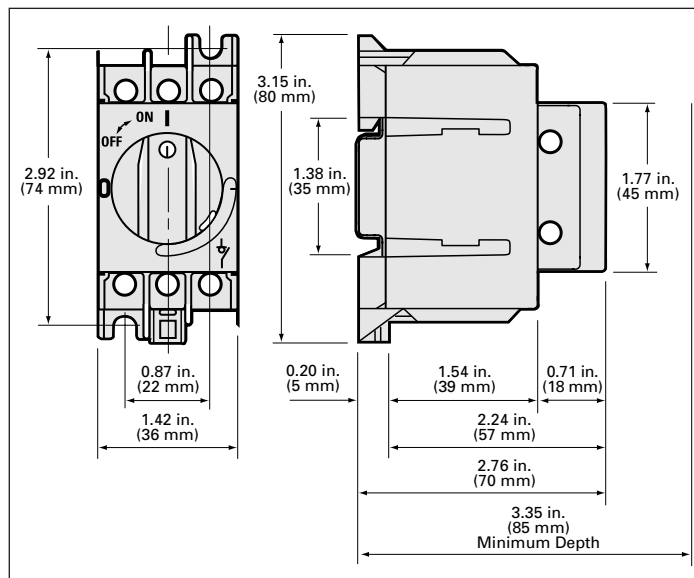
⑨ Discount Schedule Pilot Devices

Disconnect Switches

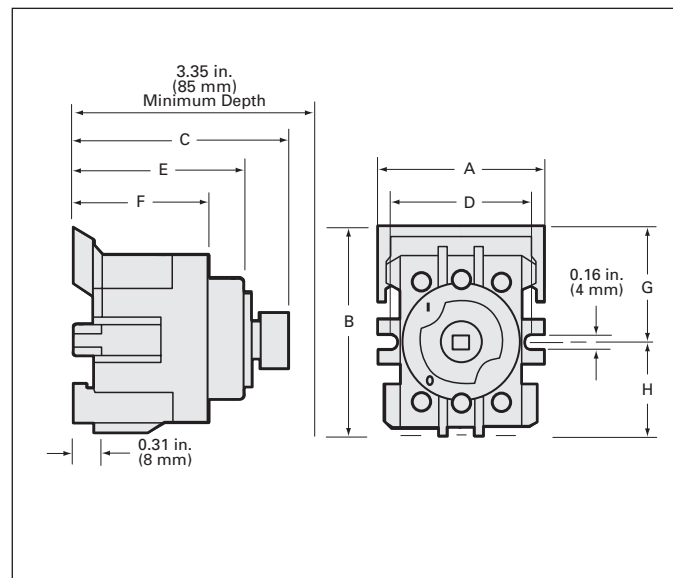
Compact Non-Fusible—Rotary and Toggle

Dimensions

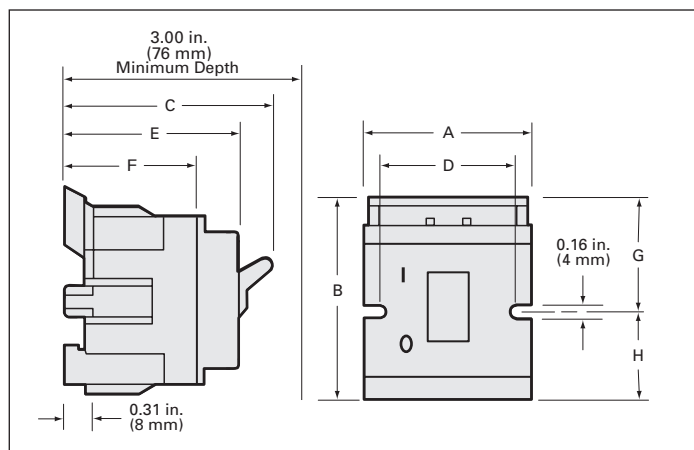
Dimension Drawings and Wire Ranges



LBR 3025



LBR & 3LD2 Rotary — 40-100 Amps



LBT Toggle — 40-100 Amps

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	(1) #14-8 AWG (1) #14-8 AWG (1) #14-6 AWG

3LD2 Handle

Switch Type	Switch Catalog No.	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	3LD21 & 2 ^②	1.81 (46)	2.17 (55)	2.88 (73) ^①	—	—	—	—	—
Rotary	3LD25 ^②	2.36 (60)	2.52 (64)	3.25 (83) ^①	—	—	—	—	—
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—3.55 inches square