

# Enclosed Switches

## Rotary Disconnect Switches in Non-Metallic Enclosures<sup>⑤</sup>

*Selection*

### Application

Siemens Rotary Disconnect switches are ideally suited for use as "in sight" disconnects for motor loads and other electrical equipment which is remotely located from its branch circuit protective device. All are supplied in non-metallic enclosures which are UL & CUL or CSA approved for a wide range of both indoor and outdoor environments. All meet UL508 requirements.

### Description

16–125A non-fusible switches are available in fiberglass reinforced polycarbonate enclosures which are UL approved as Type 12 & 4X and for either indoor or outdoor use. All are horsepower and load break rated. All are panel mounted and are either supplied with factory installed aux. contacts or will accept contact kits. All are compact in size while providing ample wiring space for copper line & load conductors.

### Siemens Enclosed Rotary Disconnect Switches

- 16–125A, Non-Fusible
- 600VAC max. rated (except catalog no. HNF3100CX is rated 480VAC max.)
- Available in both Type 12 and 4X non-metallic enclosures
- Both screw and hinged cover designs available
- Listed and marked "suitable for use as motor disconnect" per NEC Section 430-109
- Screw cover switches are UL listed under File No. E47705 and are CSA certified under File No. 203576
- IEC 60947-3 rated and CE marked (enclosures are IP65 rated)
- Hinged door switches are UL listed for multiple line and load conductors per phase in 30–100A ratings. They are UL & CUL listed under File No. E191706



- HP rated
- Rotary handles are available in black, red, and yellow and in pistol grip designs
- 16–63A screw cover switches have factory installed ground bars. All hinge cover switches accept ground lug kits
- Screw cover switches are provided with knockouts
- Padlockable in OFF position with up to (3) padlocks

Ampere Rating	Catalog Number		Shipping Weight <sup>①</sup>	Horsepower Ratings			
	3 Pole, 3 Wire	3 Pole, 3 Wire with (1) NO & (1) NC Aux. Contact <sup>②③</sup>		240V AC		480V AC	600V AC
				1 Phase	3 Phase	3 Phase	3 Phase

### Non-Fusible, Type 1, 4X & 12K<sup>②</sup> with Screw Cover and Black Rotary Handle 600V AC Max.<sup>⑤</sup>

16	3LD2064-0TB51-0US2	3LD2064-1GP51-0US2	1	1½	3	7½	10
25	3LD2164-0TB51-0US2	3LD2164-1GP51-0US2	1	3	7½	10	15
30	3LD2264-0TB51-0US2	3LD2264-1GP51-0US2	1	3	7½	15	20
30	—	3LD2264-1TS51-0US2 <sup>④</sup> ▲	1	3	7½	15	20
30	—	3LD2264-2TW51-0US2 <sup>⑦</sup> ▲	1	3	7½	15	20
63	3LD2565-0TB51-0US2	3LD2565-1GP51-0US2▲	3	10	15	40	50
100	3LD2766-0TB51-0US2	3LD2766-1GP51-0US2▲	6	—	30	60	75
125	3LD2866-0TB51-0US2	3LD2866-1GP51-0US2▲	6	—	40	75	100

### Non-Fusible, Type 1, 4X & 12K<sup>②</sup> with Screw Cover and Red and Yellow Rotary Handle 600V AC Max.<sup>⑤</sup>

16	3LD2064-0TB53-0US2	3LD2064-1GP53-0US2	1	1½	3	7½	10
25	3LD2164-0TB53-0US2	3LD2164-1GP53-0US2	1	3	7½	10	15
30	3LD2264-0TB53-0US2	3LD2264-1GP53-0US2	1	3	7½	15	20
30	—	3LD2264-1TS53-0US2 <sup>④</sup> ▲	1	3	7½	15	20
30	—	3LD2264-2TW53-0US2 <sup>⑦</sup> ▲	1	3	7½	15	20
63	3LD2565-0TB53-0US2	3LD2565-1GP53-0US2▲	3	10	15	40	50
100	3LD2766-0TB53-0US2▲	3LD2766-1GP53-0US2▲	6	—	30	60	75
125	3LD2866-0TB53-0US2▲	3LD2866-1GP53-0US2▲	6	—	40	75	100

### Non-Fusible, Type 4X<sup>④</sup> with Hinged Door and Black Pistol Grip Rotary Handle 480V AC Max.<sup>③⑤</sup>

30	HNF3030CX	—	4	3	7½	15	20
60	HNF3060CX	—	4	10	15	40	50
100	HNF3100CX	—	5	15	25	50	—

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

① Carton quantity of (1). Shipping weight in pounds (lbs.).

② Approved for both indoor and outdoor use. No cover interlock provided.

③ 30 and 60A switches are also rated 600V AC.

④ Also rated as Type 12 and UL approved for both indoor and outdoor use. Defeatable cover interlock provided.

⑤ Screw cover enclosures are constructed from Makrolon 9425. Hinged cover enclosures are constructed from fiberglass reinforced polycarbonate.

⑥ Switch is supplied with (2) NO and no NC aux. contacts.

⑦ Switch is supplied with (4) NO and no NC aux. contacts. Ground bar is not provided or available.

⑧ Aux. contacts break about 3 Ms before and make about 3 Ms after main switch contacts.

⑨ 6P, 25A, switch with 1 NO & 1 NC aux. contacts and a black operating handle is also available. Order catalog number 3LD2165-4VD51 (Discount Code: Pilot Devices).

# Enclosed Switches

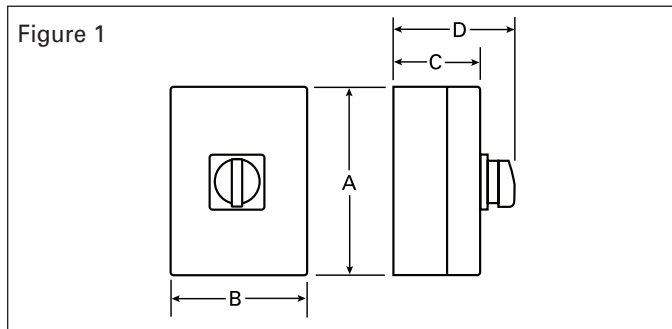
## Rotary Disconnect Switches

Selection

### Enclosed Disconnect Switch Dimensions (Inches)\*

Catalog Number	Ampere Rating	Fig. No.	Dimensions			
			A	B	C	D
3LD2064-	16	1	5.52 <sup>④</sup>	3.94	3.19	4.57
3LD2164-	25		5.52 <sup>④</sup>	3.94	3.19	4.57
3LD2264-	30		5.52 <sup>④</sup>	3.94	3.19	4.57
3LD2565-	63		6.93 <sup>⑤</sup>	5.75	4.10	5.87
3LD2766-	100		11.90	8.35	5.36	7.13
3LD2866-	125	11.90	8.35	5.36	7.13	
HNF3030CX	30	2	7.87	7.87	5.20	7.29
HNF3060CX	60		11.77	7.87	5.20	7.29
HNF3100CX	100		11.77	7.87	5.20	7.29

Note: 3LD2 Type switches only have top and bottom end KO's as follows:  
16-30A - 1/2" & 3/4", 63A - 3/4" & 1", 100 & 25A - 1" & 1 1/4"



### UL and CUL Short Circuit Withstand Ratings

Ampere Rating	Short Circuit Withstand Rating and Fuse Class				
	With Line Side Fusing			With Load Side Fusing <sup>①</sup>	
	5 kA at 600V Max	10 kA at 600V Max	18 kA at 480V Max	5 kA at 480V Max	18 kA at 480V Max
16	—	—	—	—	—
25 & 30	—	—	—	—	—
63	—	—	—	—	—
100 & 125	—	—	—	—	—

### 3LD2 Type Switches<sup>③</sup>

16	RK5 (50A Max)	—	—	—	—
25 & 30	RK5 (80A Max)	—	—	—	—
63	RK5 (175A Max)	—	—	—	—
100 & 125	—	RK5 (200A Max)	—	—	—

### HNF Type Switches

30	—	H, K & RK5 (100A Max)	J, T & CC (100A Max)	H, K & RK5 (30A Max)	Ferraz Shawmut A50P or lower let-through semiconductor fuses (60A Max)
60	⑥	H, K & RK5 (150A Max)		H, K & RK5 (60A Max)	
100		⑥			

- ① For use as supplemental protection on the load side of the branch circuit over current protective device.
- ② Ground lug kit has two lugs for #14-4 Cu/Al wire.
- ③ Factory installed ground lugs supplied as follows: 16-30A #14-10 Cu, 63A #14-8 Cu. Ground lug not provided and is not available on catalog numbers 3LD2264-2TW51-0US2 and 3LD2264-2TW53-0US2.
- ④ 6.38 inches high including mounting feet.
- ⑤ 7.85 inches high including mounting feet.
- ⑥ 60 & 100A HNF switches are rated 10kA at 480V max. with line side Class H, K & RK5 150A max. fuses.
- ⑦ Wire range (1) #14-2 AWG 60/75 °C Cu only.
- ⑧ 16-63A 3LD switches are also rated 5kA at 600VAC max when protected by a 3RV type MSP of the same or lesser ampere rating.

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

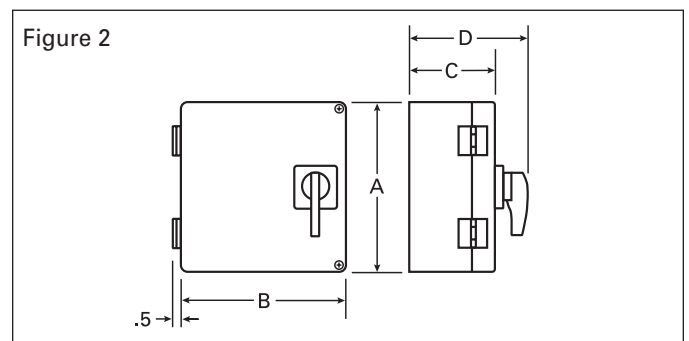
Wire ranges 60/75°C Cu Only

### 3LD2 Type Switches<sup>③</sup>

16 Amps	(1) #18-10 AWG
25-30 Amps	(1) #14-10 AWG
63 Amps	(1) #14-6 AWG
100-125 Amps	(1) #12-1 AWG

### HNF Type Switches

30 Amps	(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
60 & 100 Amps	(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



### IEC Fuse and Withstand Ratings

Ampere Rating	gG Fuse Size	Short Circuit Rating
---------------	--------------	----------------------

### 3LD2 Screw Cover Switches

16	20A	5k Arms
25	25A	10k Arms
32	50A	10k Arms
63	63A	15k Arms
100	100A	20k Arms
125	125A	20k Arms

### HNF Hinged Cover Switches

30	63A	10k Arms
60	100A	10k Arms
100	100A	10k Arms

### Accessories

Switch Ampere Rating	Catalog Number	Description
----------------------	----------------	-------------

### 3LD2 Type Switches<sup>③</sup>

16-30A	3LD9220-2C	Neutral Kit
63A	3LD9250-2CA	Neutral Kit
100-125A	3LD9280-2C	Neutral Kit

### HNF Type Switches

30-100A	GSGK60	Ground Lug Kit <sup>②</sup>
30A	LBRA1	Auxiliary Contact Kit (1 NO-1 NC)
60-100A	LBRA2	Auxiliary Contact Kit (1 NO-1 NC)
30-100A	HF63CX <sup>⑦</sup>	Neutral Kit

# Enclosed Switches

## Enclosed Bolted Pressure Switches & Safety Switch Replacement Parts

*Selection*

For enclosed bolted pressure contact switches order as lug-in/lug-out single section BPS main switchboards using either the SPACE 2000 Switchboard EPM or COMPAS.

### VBII Safety Switch Replacement Parts

Ampere Rating	Line Base	Load Base	Handle / Handle Guard	
			General Duty	Heavy Duty
	Catalog Number	Catalog Number	Catalog Number	Catalog Number

#### Fusible 2- and 3-Pole 60-600A General Duty & 30-1200A Heavy Duty<sup>⑤⑧</sup>

30 HD 240V	HFB21 <sup>②</sup>	HBB21 <sup>②</sup>	—	HH6123 <sup>⑦</sup>
60 GD	HFB612 <sup>②</sup>	HBB612 <sup>②</sup>	GH223	—
60 HD 240V	HFB22 <sup>②</sup>	HBB22 <sup>②</sup>	—	HH6123 <sup>⑦</sup>
30 600V	HFB612 <sup>②</sup>	HBB612 <sup>②</sup>	—	HH6123 <sup>⑦</sup>
60 600V	HFB62 <sup>②</sup>	HBB62 <sup>②</sup>	—	HH6123 <sup>⑦</sup>
100	HFB63 <sup>②</sup>	HBB63 <sup>②</sup>	GH223	HH6123 <sup>⑦</sup>
200	HFB64 <sup>②</sup>	HBB64 <sup>②</sup>	GH24	HH64 <sup>⑦</sup>
400	HFB65 <sup>③⑥</sup>	HBB656 <sup>③⑥</sup>	HH65678	HH65678 <sup>⑦</sup>
600	HFB66 <sup>③⑥</sup>	HBB656 <sup>③⑥</sup>	HH65678	HH65678 <sup>⑦</sup>
800	HFB67A <sup>②④</sup>	HBB67A <sup>②④</sup>	—	HH65678 <sup>⑦</sup>
1200	HFB68 <sup>②⑥</sup>	HBB68 <sup>②⑥</sup>	—	HH68 <sup>⑦</sup>

#### Non-Fusible 3-Pole 60-600A General Duty & 30-1200A Heavy Duty<sup>⑤⑧</sup>

30 HD	HNB612 <sup>②</sup>	—	—	HH6123 <sup>⑦</sup>
60 GD	HNB612 <sup>②</sup>	—	GH223	—
60 HD	HNB623 <sup>②</sup>	—	—	HH6123 <sup>⑦</sup>
100	HNB623 <sup>②</sup>	—	GH223	HH6123 <sup>⑦</sup>
200	HNB64 <sup>②</sup>	—	GH24	HH64 <sup>⑦</sup>
400	HNB65 <sup>③⑥</sup>	—	HH65678	HH65678 <sup>⑦</sup>
600	HNB66 <sup>③⑥</sup>	—	HH65678	HH65678 <sup>⑦</sup>
800	HNB67A <sup>②④</sup>	—	—	HH65678 <sup>⑦</sup>
1200	HNB678 <sup>②</sup>	—	—	HH68 <sup>⑦</sup>

Ampere Rating	Mechanism Assembly	Line & Load Lugs
	Catalog Number	Catalog Number

#### Fusible 2- and 3-Pole 60-600A General Duty & 30-1200A Heavy Duty<sup>⑤⑧</sup>

30 HD 240V	HM6123 <sup>⑦</sup>	HL612 <sup>①</sup>
60 GD	HM6123	HL612 <sup>①</sup>
60 HD 240V	HM6123 <sup>⑦</sup>	HL612 <sup>①</sup>
30 600V	HM6123 <sup>⑦</sup>	HL612 <sup>①</sup>
60 600V	HM6123 <sup>⑦</sup>	HL612 <sup>①</sup>
100	HM6123 <sup>⑦</sup>	HL63 <sup>①</sup>
200	HM64 <sup>⑦</sup>	HL64 <sup>①</sup>
400	HM65	HL65678 <sup>④</sup>
600	HM66	HL65678 <sup>④</sup>
800	HM67A	HL67A <sup>⑥⑦</sup>
1200	HM678	⑨

#### Non-Fusible 3-Pole 60-600A General Duty & 30-1200A Heavy Duty<sup>⑤⑧</sup>

30 HD	HM6123 <sup>⑦</sup>	HL612 <sup>①</sup>
60 GD	HM6123	HL612 <sup>①</sup>
60 HD	HM6123 <sup>⑦</sup>	HL612 <sup>①</sup>
100	HM6123 <sup>⑦</sup>	HL63 <sup>①</sup>
200	HM64 <sup>⑦</sup>	HL64 <sup>①</sup>
400	HM65	HL65678 <sup>④</sup>
600	HM66	HL65678 <sup>④</sup>
800	HM67A	HL67A <sup>⑥⑦</sup>
1200	HM678	⑨

① Three lugs included in kit.

② Includes lugs.

③ Lugs not included.

④ One lug per kit.

⑤ One per switch required unless otherwise noted.

⑥ One required per pole.

⑦ For type 4/4X stainless steel switches add "S" to end of catalog number.

⑧ For replacement door for heavy duty switches add "DOOR" to end of switch catalog number.

⑨ Lugs included with line and load bases.