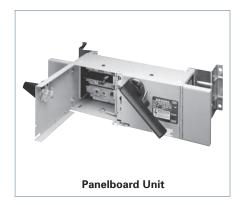
Section

Disconnect Switches

SPEEDFAXTM







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Load switching devices for all applications

Fuseless switch disconnectors









	Туре	3LD3 new	3LD2	3LD5 UL new
	Rated current I _n	16 63 A	16 250 A	30 160 A
	Short-circuit current max.	6 kA	50 kA	50 kA
Selection acc. to	AC max.	AC-3	AC-3	AC-3
utilization category	DC max.	-	DC-22A	_
	Suitable fuses	-	-	-
Types of	Panel mounting			•
mounting	Mounting on a standard mounting rail	•	(up to 125 A)	(up to 63 A)
	Front mounting			
	Mounting on busbar systems (spacing of the busbars)	-	-	-
	Draw-out technology	-	_	_
Methods of	Manual from the front			
	Manual from the side	-	_	_
operation	Remote-controllable	-	-	-
Number of	1-pole	-	-	_
poles	2-pole	_	_	_
	3-pole	•	•	•
	4-pole	•	•	•
	6-pole	-	•	-
Switching	All poles			
function	Individual poles switchable	-	_	_

3LD switch disconnectors Quick Select Guide



Туре			3LD30	3LD31	3LD32	3LD33	3LD34	3LD20	3LD21	3LD22	3LD25	3LD27
General technical specifications	acc. to UL											
General technical specifications												
Certification according to UL standard	d				UL 508					UL 508		
I _n acc. to UL 508/UL60947-4-1 UL48	89	Α	16 -	25 -	32 -	40 -	63 -	16 -	25 -	32 -	63 -	100 -
U _e acc. to UL 508/UL60947-4-1 UL489 V AC		V AC			600 -					600 -		
Operating and short-circuit behavior	or											
Operational power, 3-phase	At 480 V	hp	7.5	10	20	20	25	7.5	10	20	40	60
	At 600 V	hp	10	15	20	20	30	10	15	20	50	75
Short circuit current rating (SCCR)	At 480 V at 600 V	kA			5 5			5 5	5 5	5 5	5 5	10 10
Upstream fuse according to UL					RK5					RK5		

For IEC ratings, reference document in Industry Mall or Global LV10 catalog



Type			JLDZU	JLDZJ	JLDZT	JLDJU	JLDJZ	JLDJT	JLDJU	JLDJU	
General technical specifications	acc. to UL										
General technical specifications											
Certification according to UL standar	Certification according to UL standard			UL 508 UL60947-4-1 / UL48				L489			
I _n acc. to UL 508/UL60947-4-1 UL4	89	Α	125 -	160 -	250 -	30 30	60 60	100 100	125 125	150 150	
U _e acc. to UL 508/UL60947-4-1 UL489 V AC		V AC	600 -			480 480					
Operating and short-circuit behavior											
Operational power, 3-phase	At 480 V	hp	75	75	100	20	30	60	75	100	
	At 600 V	hp	100	50	75	-	-	-	-	-	
Short circuit current rating (SCCR)	At 480 V at 600 V	kA	10 10	10 10	10 10	50 -	65 -	65 -	65 -	50 -	
Upstream fuse according to UL				RK5		J CC	J	J	J	J	
For IEC ratings, reference decum	av IEC vatings, vefevence desument in Industry Mall ov Global IV10 catalog										

For IEC ratings, reference document in Industry Mall or Global LV10 catalog

3LD3 main control and EMERGENCY-STOP switches

Basic units for front mounting



3P rotary operating 3P knob-operated mechanisms



mechanisms



3P+N rotary operating



3P+N knob-operated mechanisms

Basic units for panel mounting



3P rotary operating 3P knob-operated mechanisms



mechanisms



mechanisms



3P+N rotary operating 3P+N knob-operated mechanisms

Basic units for installation in distribution boards



3P knob-operated mechanisms



3P basic switches without knob-operated mechanism



3P+N knob-operated mechanisms



3P+N basic switches without knob-operated mechanism

Additional poles and auxiliary switches



N switching contacts



N/PE terminals



Auxiliary switches

Operating mechanisms





Rotary operating mechanisms for front or panel mounting (center hole)



Knob-operated mechanisms for front or panel mounting (center hole)



Door-coupling rotary operating mechanisms



Door-coupling knob-operated mechanisms

Other accessories





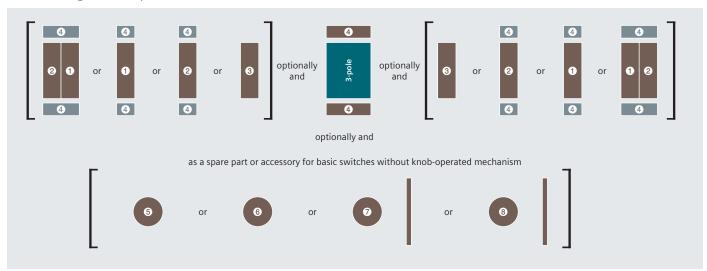


Terminal covers, 1 and 3-pole Inscription labels

Note: You will find a detailed range of accessories with the basic units.

3LD3 mounting and accessories

Mounting concept and accessories



Legend

- N switching contact 1)
- N/PE terminal
- Auxiliary switch
- 4 Terminal cover
- 6 Knob-operated mechanism, center-hole mounting
- Opportunity Door-coupling rotary operating mechanism, center-hole mounting 6 Rotary operating mechanism, center-hole mounting 3 Door-coupling knob-operated mechanism, center-hole mounting

¹⁾ The N switching contact 1 first has to be mounted on the basic unit



Mounting types

Front mounting



The switches for front mounting are mounted on the inside of covers, side panels or, if applicable, control cabinet doors (depending on the applicable standard and switching function). The switches are mounted via the 22.5 mm diameter center hole.

You will find further information in the configuration manual: sie.ag/2UlrAvy

Panel mounting



The switches for panel mounting are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The overall depth can be adapted to individual requirements by adjusting the switch shaft length.

Distribution board mounting



The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. They have cap and mounting dimensions acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers. The selector switches can be locked in their OFF position with no more than one padlock with a hasp thickness of 4 to 6 mm.

Basic switches without knob-operated mechanism



For the basic switch variant without knob-operated mechanism, the appropriate door-coupling rotary operating mechanism can be ordered separately.



3LD3 main control and EMERGENCY-STOP switches

3LD3 main control and EMERGENCY-STOP switches, front mounting



Operating mechanisms, black

Number of poles 3P





At AC-21A, 380 440 V	At AC-23A, 380 440 V	At AC-3, 380 440 V	auxiliary switch	I NO + I NC
Rotary operating mechanisms				
16 A	7.5 kW	5.5 kW	3LD3054-0TK51	3LD3054-1TK51
25 A	9 kW	7.5 kW	3LD3154-0TK51	3LD3154-1TK51
32 A	11.5 kW	9.5 kW	3LD3254-0TK51	3LD3254-1TK51
40 A	18.5 kW	11.5 kW	3LD3354-0TK51	3LD3354-1TK51
63 A	22 kW	18.5 kW	3LD3454-0TK51	3LD3454-1TK51
Knob-operated mechanisms				
16 A	7.5 kW	5.5 kW	3LD3050-0TK11	3LD3050-1TK11
25 A	9 kW	7.5 kW	3LD3150-0TK11	3LD3150-1TK11
32 A	11.5 kW	9.5 kW	3LD3250-0TK11	3LD3250-1TK11
40 A	18.5 kW	11.5 kW	3LD3350-0TK11	3LD3350-1TK11
63 A	22 kW	18.5 kW	3LD3450-0TK11	3LD3450-1TK11

Scope of supply:

• Including terminal covers for the infeed side

Accessorie	es			3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Additional p	oles							
1	Variant	Contacts	Catalog No.					
-1	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0B	•	•	•	•	•
1	N terminal	Through-type	3LD9340-2B					
	PE terminal	Through-type	3LD9340-3B					
Auxiliary sw	itches							
0		Contacts	Catalog No.					
6		1 NO + 1 NC	3LD9340-6B	•	•	•	•	•
Rotary opera	ating mechanisms							
		Color	Catalog No.					
		Black	3LD9344-4C					
		Red/yellow	3LD9344-5C	•	•	•	•	•
Knob-operat	ed mechanisms							
		Color	Catalog No.					
		Black	3LD9343-6C					
6 70		Red/yellow	3LD9343-7C	•	•	•	•	•

3LD3 mounting and accessories



3LD3350-0TL11

3LD3450-0TL11

3LD3350-1TL11

3LD3450-1TL11

3P+N





3LD3350-0TK13

3LD3450-0TK13





3LD3350-0TL13

3LD3450-0TL13

3LD3350-1TL13

3LD3450-1TL13

3P+N



7-7-7-7	77777	7-7-7		7-7-7-7	
Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC
3LD3054-0TL51	3LD3054-1TL51	3LD3054-0TK53	3LD3054-1TK53	3LD3054-0TL53	3LD3054-1TL53
3LD3154-0TL51	3LD3154-1TL51	3LD3154-0TK53	3LD3154-1TK53	3LD3154-0TL53	3LD3154-1TL53
3LD3254-0TL51	3LD3254-1TL51	3LD3254-0TK53	3LD3254-1TK53	3LD3254-0TL53	3LD3254-1TL53
3LD3354-0TL51	3LD3354-1TL51	3LD3354-0TK53	3LD3354-1TK53	3LD3354-0TL53	3LD3354-1TL53
3LD3454-0TL51	3LD3454-1TL51	3LD3454-0TK53	3LD3454-1TK53	3LD3454-0TL53	3LD3454-1TL53
3LD3050-0TL11	3LD3050-1TL11	3LD3050-0TK13	3LD3050-1TK13	3LD3050-0TL13	3LD3050-1TL13
3LD3150-0TL11	3LD3150-1TL11	3LD3150-0TK13	3LD3150-1TK13	3LD3150-0TL13	3LD3150-1TL13
3LD3250-0TL11	3LD3250-1TL11	3LD3250-0TK13	3LD3250-1TK13	3LD3250-0TL13	3LD3250-1TL13

3LD3350-1TK13

3LD3450-1TK13

Terminal cove	ers		3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
	Pack of 4 units						
	Version	Catalog No.					
	For N switching contacts, N terminals or PE terminals	3LD9341-2A	•	•	•	•	•
	For 3-pole 3LD3 switch disconnectors	3LD9341-0A	•	•	•	•	•
Inscription lab	pels						
MIN DATE	Pack of 10 units						
MAIN SWITCH HALPTSCHALTER	Inscription	Catalog No.					
1	German / English (Hauptschalter / Main Switch)	3LD9346-1A					
	French / Spanish (Interrupteur Principal / Interruptor Principal)	3LD9346-2A	•				
	Without inscription	3LD9346-3A					

3LD3 main control and EMERGENCY-STOP switches, panel mounting, 6 kA_{rm}

Operational power P

3LD3 main control and EMERGENCY-STOP switches, panel mounting



Operating mechanisms, black

Number of poles 3P





At AC-21A, 380 440 V	At AC-23A, 380 440 V	At AC-3, 380 440 V	auxiliary switch	
Rotary operating mechanisms				
16 A	7.5 kW	5.5 kW	3LD3048-0TK51	3LD3048-1TK51
25 A	9 kW	7.5 kW	3LD3148-0TK51	3LD3148-1TK51
32 A	11.5 kW	9.5 kW	3LD3248-0TK51	3LD3248-1TK51
40 A	18.5 kW	11.5 kW	3LD3348-0TK51	3LD3348-1TK51
63 A	22 kW	18.5 kW	3LD3448-0TK51	3LD3448-1TK51
Knob-operated mechanisms				
16 A	7.5 kW	5.5 kW	3LD3040-0TK11	3LD3040-1TK11
25 A	9 kW	7.5 kW	3LD3140-0TK11	3LD3140-1TK11
32 A	11.5 kW	9.5 kW	3LD3240-0TK11	3LD3240-1TK11
40 A	18.5 kW	11.5 kW	3LD3340-0TK11	3LD3340-1TK11
63 A	22 kW	18.5 kW	3LD3440-0TK11	3LD3440-1TK11

Operational power P

Uninterrupted current I

Scope of supply:
• Including terminal covers for the infeed side

• Using screws or snap-on mounting on 35 mm mounting rails

Accessorie	s			3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Additional po	les							
100	Variant	Contacts	Catalog No.					
-1	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0C	•	•	•	•	•
1	N terminal	Through-type	3LD9340-2C					
	PE terminal	Through-type	3LD9340-3C					
Auxiliary swit	ches							
0		Contacts	Catalog No.					
		1 NO + 1 NC	3LD9340-6C	•	•	•	•	•
Rotary operat	ing mechanisms							
ALC:	Version	Color	Catalog No.					
	Incl. funnel	Black	3LD9344-2C					•
		Red/yellow	3LD9344-3C	•	•	•	•	•
Knob-operate	d mechanisms							
	Version	Color	Catalog No.					
	Incl. funnel	Black	3LD9343-4C					
		Red/yellow	3LD9343-5C	•	•	•	•	•

3LD3040-1TL13

3LD3140-1TL13

3LD3240-1TL13

3LD3340-1TL13

3LD3440-1TL13

Disconnect Switches

3LD3 main control and EMERGENCY-STOP switches, panel mounting, 6 kA_{rms}

Selection



3LD3040-1TL11

3LD3140-1TL11

3LD3240-1TL11

3LD3340-1TL11

3LD3440-1TL11

3P+N

3LD3040-0TL11

3LD3140-0TL11

3LD3240-0TL11

3LD3340-0TL11

3LD3440-0TL11



Operating mechanisms, red/yellow



3P+N

3LD3040-0TL13

3LD3140-0TL13

3LD3240-0TL13

3LD3340-0TL13

3LD3440-0TL13

		· ·			
			1 1 1 1	7-7-7	1 1 1 1
Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC
3LD3048-0TL51	3LD3048-1TL51	3LD3048-0TK53	3LD3048-1TK53	3LD3048-0TL53	3LD3048-1TL53
3LD3148-0TL51	3LD3148-1TL51	3LD3148-0TK53	3LD3148-1TK53	3LD3148-0TL53	3LD3148-1TL53
3LD3248-0TL51	3LD3248-1TL51	3LD3248-0TK53	3LD3248-1TK53	3LD3248-0TL53	3LD3248-1TL53
3LD3348-0TL51	3LD3348-1TL51	3LD3348-0TK53	3LD3348-1TK53	3LD3348-0TL53	3LD3348-1TL53
3LD3448-0TL51	3LD3448-1TL51	3LD3448-0TK53	3LD3448-1TK53	3LD3448-0TL53	3LD3448-1TL53

3LD3040-0TK13

3LD3140-0TK13

3LD3240-0TK13

3LD3340-0TK13

3LD3440-0TK13

				3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Switching sha	afts							
///	Cross-section	Length	Catalog No.					
////	6 × 6 mm	600 mm	3LD93451C	•	•	•	•	•
Door-coupling	g rotary operating mechanisms							
N	Variant	Color	Catalog No.					
	Rotary operating mechanisms	Black	3LD9344-2CA		•		•	
3	66 × 66 mm	Red/yellow	3LD9344-3CA	•	•	•	•	•
ø	Knob-operated mechanisms	Black	3LD9343-4CA					-
	48 × 48 mm	Red/yellow	3LD9343-5CA	•	•	•	•	•
Terminal cove	ers							
	 Pack of 4 units 							
44	Version		Catalog No.					
3	For N switching contacts, N termi	nals or PE terminals	3LD9341-2A	•	•	•	•	•
000	For 3LD3 3-pole switch disconnec	tors	3LD9341-0A	•	•	•	•	•
Inscription lal	bels							
MAIN SMITCH HALPTSCHALTER	Pack of 10 units							
THE TSCHOOL TER	Inscription		Catalog No.					
	German / English (Hauptschalter /	Main Switch)	3LD9346-1A		•	•	•	
	French / Spanish (Interrupteur Pri	ncipal / Interruptor Principal)	3LD9346-2A			•		
	Without inscription		3LD9346-3A					

3LD3040-1TK13

3LD3140-1TK13

3LD3240-1TK13

3LD3340-1TK13

3LD3440-1TK13

3LD3 main control and EMERGENCY-STOP switches, distribution boards and without direct operating mechanism, 6 kA_{rms}

3LD3 main control and EMERGENCY-STOP switches, installation in distribution boards and basic switches without direct operating mechanism





Operating mechanisms, black

Number of poles 3P





	Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3, 380 440 V	Without auxiliary switch	1 NO + 1 NC
	Basic switch with masking plate ar	nd selector knob, standard rail moun	ting		
	16 A	7.5 kW	5.5 kW	3LD3030-0TK11	3LD3030-1TK11
	25 A	9 kW	7.5 kW	3LD3130-0TK11	3LD3130-1TK11
	32 A	11.5 kW	9.5 kW	3LD3230-0TK11	3LD3230-1TK11
	40 A	18.5 kW	11.5 kW	3LD3330-0TK11	3LD3330-1TK11
	63 A	22 kW	18.5 kW	3LD3430-0TK11	3LD3430-1TK11
	Basic switches without knob-opera	ited mechanism			
	16 A	7.5 kW	5.5 kW	3LD3010-0TK05	3LD3010-1TK05
	25 A	9 kW	7.5 kW	3LD3110-0TK05	3LD3110-1TK05
	32 A	11.5 kW	9.5 kW	3LD3210-0TK05	3LD3210-1TK05
ı	40 A	18.5 kW	11.5 kW	3LD3310-0TK05	3LD3310-1TK05
	63 A	22 kW	18.5 kW	3LD3410-0TK05	3LD3410-1TK05

Scope of supply:

- Basic switches without direct operating mechanism, incl. terminal covers for the infeed side Mounting:
- Using screws or snap-on mounting on 35 mm mounting rails

	Accessories for switches for installation in distribution boards and basic switches without knob-operated mechanism						3LD33 (40 A)	3LD34 (63 A)
Additional po	les							
	Variant	Contacts	Catalog No.					
-/	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0C	•	•	•	•	•
1	N terminal	Through-type	3LD9340-2C					
	PE terminal	Through-type	3LD9340-3C					
Auxiliary swit	tches							
e		Contacts	Catalog No.					
	1 NO + 1 NC			•	•	•	•	•
Terminal cove	• Pack of 4 units							
4.4	Version		Catalog No.					
	For N switching contacts, N termina	als or PE terminals	3LD9341-2A	•	•	•	•	•
440	For 3LD3 3-pole switch disconnectors		3LD9341-0A	•	•	•	•	•
Switching sha								
///	Cross-section	Length	Catalog No.					
///	6 × 6 mm	600 mm	3LD93451C	•	•	•	•	•

3LD3 main control and EMERGENCY-STOP switches, distribution boards and without direct operating mechanism, 6 kA_{rms}









		Operating mechani	sms, red/yellow		
3P+N		3P		3P+N	
1 1 1 1	1 1 1 1 1	7-7-7		1-1-1-1	1 1 1 1 1
Without	1 NO + 1 NC	Without	1 NO + 1 NC	Without	1 NO + 1 NC

•						
Witho auxilia	ut iry switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC
3LD303	30-0TL11	3LD3030-1TL11	3LD3030-0TK13	3LD3030-1TK13	3LD3030-0TL13	3LD3030-1TL13
3LD313	30-0TL11	3LD3130-1TL11	3LD3130-0TK13	3LD3130-1TK13	3LD3130-0TL13	3LD3130-1TL13
3LD323	30-0TL11	3LD3230-1TL11	3LD3230-0TK13	3LD3230-1TK13	3LD3230-0TL13	3LD3230-1TL13
3LD333	30-0TL11	3LD3330-1TL11	3LD3330-0TK13	3LD3330-1TK13	3LD3330-0TL13	3LD3330-1TL13
3LD343	30-0TL11	3LD3430-1TL11	3LD3430-0TK13	3LD3430-1TK13	3LD3430-0TL13	3LD3430-1TL13
3LD30	10-0TL05	3LD3010-1TL05	-	_	-	-
3LD311	10-0TL05	3LD3110-1TL05	-	-	-	-
3LD32	10-0TL05	3LD3210-1TL05	-	-	-	-
3LD33	10-0TL05	3LD3310-1TL05	-	-	-	-
3LD34	10-0TL05	3LD3410-1TL05	_	_	-	-

Accessorie	s for basic switches without op	erating mechan	nism	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Rotary operat	ting mechanisms							
	Version	Color	Catalog No.					
	Incl. funnel	Black	3LD9344-2C					
		Red/yellow	3LD9344-3C	•	•	•	•	•
Knob-operate	ed mechanisms							
	Version	Color	Catalog No.					
	Incl. funnel	Black	3LD9343-4C					
		Red/yellow	3LD9343-5C	•	•	•	•	•
Door-coupling	g rotary operating mechanisms							
1	Variant	Color	Catalog No.					
	Rotary operating mechanisms 66×66 mm	Black	3LD9344-2CA			•		
0		Red/yellow	3LD9344-3CA	•	•	•	•	•
	Knob-operated mechanisms 48 × 48 mm	Black	3LD9343-4CA					
		Red/yellow	3LD9343-5CA	•	-	•	-	•
Switching sha	afts							
///	Cross-section	Length	Catalog No.					
///	6 × 6 mm	600 mm	3LD93451C	•	-	•	-	-
Inscription lal	bels							
MAIN SWITCH HALFTSCHALTER	• Pack of 10 units							
THE TRANSPORT	Inscription		Catalog No.					
	German / English (Hauptschalter / Main Swite	ch)	3LD9346-1A		•	•	•	-
	French / Spanish (Interrupteur Principal / Inte	erruptor Principal)	3LD9346-2A					
	Without inscription		3LD9346-3A					

3LD3 main control and EMERGENCY-STOP switches, accessories

Selection

3LD3 main	control	and	EMERGEN	ICY-STOP	switches,

accessor	ries	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)		
Switching con	tacts for N conducto	or (4th contact)						
<i>a</i>	Version	Contacts	Catalog No.					
	For front mounting	Leading switch-on, lagging switch-off	3LD9340-0B	•	•	•	•	•
	For panel mounting, installation in distribution boards and basic switches without knob-opera- ted mechanism	lagging switch-off	3LD9340-0C	·	•	·	•	·
N terminals	Manatan	Combanda	Catalan Na					
	Version	Contacts	Catalog No. 3LD9340-2B		_	_	_	_
1	For front mounting	Through-type	3LD9340-2B	•	•		•	
	For panel mounting, installation in distribution boards and basic switches without knob-opera- ted mechanism		3LD9340-2C	•	•	•	•	•
PE terminals								
	Version	Contacts	Catalog No.					
	For front mounting	Through-type	3LD9340-3B	•	•	•	•	•
	For panel mounting, installation in distribution boards and basic switches without knob-opera- ted mechanism		3LD9340-3C	•	•	•	•	•
Auxiliary swite	ches							
.5	Version	Contacts	Catalog No.					
-	For front mounting	1 NO + 1 NC	3LD9340-6B	•				-
	For panel mounting, installation in distribution boards and basic switches without knob-opera- ted mechanism	1 NO + 1 NC	3LD9340-6C	•	•	•	•	•

3LD3 main control and EMERGENCY-STOP switches, accessories

Selection

3LD3 main control and EMERGENCY-STOP switches,

accesso	ries				3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Rotary operat	ting mechanisms								
notary operat	Version		Color	Catalog No.					
	For front mounting,	without funnel	Black	3LD9344-4C			_		
1	, or mone mounting,		Red/	3LD9344-5C					
2			yellow		_	_	_	_	_
	For panel mounting	and basic switches	Black	3LD9344-2C	-	_	-		
1		ed mechanism, with funnel	Red/	3LD9344-3C					
()	•		yellow	323331130	_	_	_	_	_
Knoh-operate	ed mechanisms			_					
Kilob-operate	Version		Color	Catalog No.					
	For front mounting,	without funnel	Black	3LD9343-6C			_		
	, or mone mounting,		Red/	3LD9343-7C		-			
			yellow	52555.575	_	_	_	_	_
	For panel mounting	and basis quitches	Black	3LD9343-4C	-	-	_		
		eed mechanism, with funnel	Red/	3LD9343-4C 3LD9343-5C					
8	Without Miles operat	and mediamon, with ranner	yellow	3LD9343-3C	-	•	•	•	•
			3						
Door sounling	a votami onovatina m	ashanisms							
Door-coupling	g rotary operating m Version	Variant	Color	Catalog No.					
	For panel mounting		Color Black	Catalog No. 3LD9344-2CA		_			
100	and basic switches	Rotary operating mechanisms 66 × 66 mm	Red/	3LD9344-2CA 3LD9344-3CA					-
	without knob-ope-		yellow	3LD9344-3CA	•	•	•	•	•
-	rated mechanism	Knob-operated mechanisms	Black	3LD9343-4CA					
		48 × 48 mm	Red/	3LD9343-5CA					
			yellow	JEDJJ4J JCA	_	_	-	-	_
Terminal cove	ers								
		g, panel mounting, installation in distr	ibution boards						
	and basic switches	s without knob-operated mechanism							
	Pack of 4 units								
41	Number of poles			Catalog No.					
	1-pole			3LD9341-2A	•	•	•	•	•
192									
	3-pole			3LD9341-0A	•	•	•	•	-
101									
4 4									
Switching sha	afts								
1115	Cross-section	Length		Catalog No.					
////	6 × 6 mm	600 mm		3LD93451C		-		-	
Inscription lab	bels								
	Pack of 10 units								
MAIN SMITCH HALPISCHWIER		n in distribution boards							
"	Inscription			Catalog No.					
	German / English (Ha	auptschalter / Main Switch)		3LD9346-1A	-				
	French / Spanish (Int	errupteur Principal / Interruptor Princip	al)	3LD9346-2A					
	Without inscription			3LD9346-3A		•			

3LD2 switch disconnectors

Basic units for front mounting





3P rotary operating 3P knob-operated mechanisms (3LD23/3LD24)



3P knob-operated mechanisms



3P+N rotary mechanisms



3P+N knob-operated mechanisms (3LD23/3LD24)



3P+N knob-operated mechanisms



6P rotary operating mechanisms

Basic units for panel mounting



3P rotary operating 3P knob-operated mechanisms



mechanisms (3LD23/3LD24)



3P knob-operated mechanisms. defeatable



3P+N rotary operating mechanisms



3P+N knob-operated mechanisms (3LD23/3LD24)



3P+N knob-operated mechanisms. defeatable



6P rotary operating mechanisms

Basic units for installation in distribution boards/enclosures, DC



3P knob-operated mechanisms



knob-operated mechanisms



8P DC isolators

Additional poles and auxiliary switches



N switching contacts



N/PE terminals (through-type)



Auxiliary switches (standard version)



Auxiliary switch for mounting on the front new

Operating mechanisms



Rotary operating mechanisms for 4-hole and center-hole mounting



Knob-operated mechanisms (3LD23/3LD24)



Switching shafts



Coupling pieces without ON-lock



Assembly tools for center-hole mounting

Other accessories



Terminal covers, 1-pole



Terminal covers, 3 and 4-pole



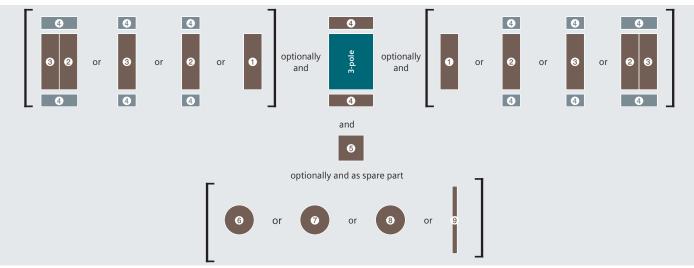
Inscription labels (with and without inscription)

Note:

You will find a detailed range of accessories with the basic units.

3LD2 Mounting and accessories

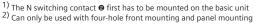
Mounting concept and accessories



Legend

- Auxiliary switch
- N switching contact 1)
- N/PE terminal
- 4 Terminal cover
- 6 Auxiliary switch for mounting on the front $^{2)}$
- 6 Rotary operating mechanism, center-hole mounting
- Rotary operating mechanism, four-hole mounting
- 3 Knob-operated mechanism, four-hole mounting
- 9 Switching shaft (300 or 600)





Mounting types

Front mounting



The switches for front mounting are mounted on the inside of covers, side panels or, if applicable, control cabinet doors (depending on the applicable standard and switching function). In addition to the 4-hole fastening of the handle, up to 63 A (3LD25) fastening with the 22.5 mm diameter center hole can also be chosen.

You will find further information in the configuration manual: sie.ag/2UlrAvy

Panel mounting

The switches for panel mounting up to 125 A (3LD28) are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 160 and 250 A (3LD23/3LD24) are exclusively screwed onto mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The overall depth can be adapted to individual requirements by adjusting the switch shaft length.

Distribution board mounting



The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. Up to 125 A (3LD28), they have cap and mounting dimensions acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers.

DC isolators



The DC isolators in the enclosure are suitable for disconnecting loads of up to 800 V DC due to their 8-pole design. To provide additional safety, the isolators can be locked in the 0 position.



3LD2 main control switches, front mounting



Operating mechanisms, black

Number of poles 3P



	At AC-21A, 380 440 V		Operational power P At AC-3A, 380 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
	Rotary operating mechanism	n, four-hole mounting			
	16 A	7.5 kW	5.5 kW	3LD2003-0TK51	3LD2003-1TP51
	25 A	9.5 kW	7.5 kW	3LD2103-0TK51	3LD2103-1TP51
l	32 A	11.5 kW	9.5 kW	3LD2203-0TK51	3LD2203-1TP51
	63 A	22 kW	18.5 kW	3LD2504-0TK51	3LD2504-1TP51
	100 A	37 kW	30 kW	3LD2704-0TK51	3LD2704-1TP51
	125 A	45 kW	37 kW	3LD2804-0TK51	3LD2804-1TP51
	160 A	75 kW	50 kW	3LD2305-0TK11	3LD2305-0TK11 + 3LD9200-5B
	250 A	132 kW	110 kW	3LD2405-0TK11	3LD2405-0TK11 + 3LD9200-5B
Rotary operating mechanism, center-hole mounting Ø 22.5 mm					
	16 A	7.5 kW	5.5 kW	3LD2054-0TK51	3LD2054-1TP51
	25 A	9.5 kW	7.5 kW	3LD2154-0TK51	3LD2154-1TP51
	32 A	11.5 kW	9.5 kW	3LD2254-0TK51	3LD2254-0TK51 + 3LD9200-5B
	63 A	22 kW	18.5 kW	3LD2555-0TK51	3LD2555-0TK51 + 3LD9200-5B
	Knob-operated mechanism,	four-hole mounting			
	16 A	7.5 kW	5.5 kW	3LD2022-0TK11	3LD2022-0TK11 + 3LD9200-5B
	25 A	9.5 kW	7.5 kW	3LD2122-0TK11	3LD2122-0TK11 + 3LD9200-5B
	32 A	11.5 kW	9.5 kW	3LD2222-0TK11	3LD2222-0TK11 + 3LD9200-5B
	Knob-operated mechanism,	center-hole mounting Ø 22.5	mm		
	16 A	7.5 kW	5.5 kW	3LD2050-0TK11	3LD2050-0TK11 + 3LD9200-5B
	25 A	9.5 kW	7.5 kW	3LD2150-0TK11	3LD2150-0TK11 + 3LD9200-5B
	32 A	11.5 kW	9.5 kW	3LD2250-0TK11	3LD2250-0TK11 + 3LD9200-5B

Scope of supply:

· Including terminal covers for the infeed side

Accessories, see pages 5-20 to 5-21

3LD2 main control switches, front mounting, 25 ... 50 kA_{eff}

Selection







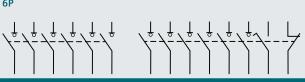












Without auxiliary switch	1 NO + 1 NC (standard version)	Without auxiliary switch	1 NO + 1 NC (standard version)
3LD2003-1TL51	3LD2003-2EP51	_	-
3LD2103-1TL51	3LD2103-2EP51	3LD2103-3VK51	3LD2103-4VP51
3LD2203-1TL51	3LD2203-1TL51 + 3LD9200-5B	3LD2203-3VK51	3LD2203-3VK51 + 3LD9200-5B
3LD2504-1TL51	3LD2504-1TP51 + 3LD9250-0BA	3LD2504-3VK51	3LD2504-3VK51 + 3LD9200-5B
3LD2704-0TK51 + 3LD9280-0B	3LD2704-0TK51 + 3LD9280-0B + 3LD9200-5B	-	_
3LD2804-0TK51 + 3LD9280-0B	3LD2804-0TK51 + 3LD9280-0B + 3LD9200-5B	_	-
3LD2305-1TL11	3LD2305-1TL11 + 3LD9200-5B	3LD2305-3VK11	3LD2305-3VK11 + 3LD9200-5B
3LD2405-1TL11	3LD2405-1TL11 + 3LD9200-5B	3LD2405-3VK11	3LD2405-3VK11 + 3LD9200-5B
3LD2054-1TL51	3LD2054-2EP51	_	-
3LD2154-1TL51	3LD2154-2EP51	-	-
3LD2254-1TL51	3LD2254-1TL51 + 3LD9200-5B	_	-
3LD2555-0TK51 + 3LD9250-0BA	3LD2555-0TK51 + 3LD9250-0BA + 3LD9200-5B	-	-
3LD2022-1TL11	3LD2022-1TL11 + 3LD9200-5B	_	-
3LD2122-1TL11	3LD2122-1TL11 + 3LD9200-5B	_	-
3LD2222-0TK11 + 3LD9220-0B	3LD2222-0TK11 + 3LD9220-0B + 3LD9200-5B	-	-
3LD2050-1TL11	3LD2050-1TL11 + 3LD9200-5B	-	-
3LD2150-0TK11 + 3LD9220-0B	3LD2150-0TK11 + 3LD9220-0B + 3LD9200-5B	-	-
3LD2250-0TK11 + 3LD9220-0B	3LD2250-0TK11 + 3LD9220-0B + 3LD9200-5B	-	-

3LD2 EMERGENCY-STOP switches, front mounting

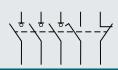
Uninterrupted current L. Operational power P



Operating mechanisms, red/yellow

Number of poles 3P





At AC-21A, 380 440 V		At AC-3A, 380 440 V	auxiliary switch	(standard version)
Rotary operating mechanism	n, four-hole mounting			
16 A	7.5 kW	5.5 kW	3LD2003-0TK53	3LD2003-1TP53
25 A	9.5 kW	7.5 kW	3LD2103-0TK53	3LD2103-1TP53
32 A	11.5 kW	9.5 kW	3LD2203-0TK53	3LD2203-1TP53
63 A	22 kW	18.5 kW	3LD2504-0TK53	3LD2504-1TP53
100 A	37 kW	30 kW	3LD2704-0TK53	3LD2704-1TP53
125 A	45 kW	37 kW	3LD2804-0TK53	3LD2804-1TP53
160 A	75 kW	50 kW	3LD2305-0TK13	3LD2305-0TK13 + 3LD9200-5B
250 A	132 kW	110 kW	3LD2405-0TK13	3LD2405-0TK13 + 3LD9200-5B
Rotary operating mechanism	n, center-hole mounting Ø 22.	5 mm		
16 A	7.5 kW	5.5 kW	3LD2054-0TK53	3LD2054-1TP53
25 A	9.5 kW	7.5 kW	3LD2154-0TK53	3LD2154-1TP53
32 A	11.5 kW	9.5 kW	3LD2254-0TK53	3LD2254-0TK53 + 3LD9200-5B
63 A	22 kW	18.5 kW	3LD2555-0TK53	3LD2555-0TK53 + 3LD9200-5B
Knob-operated mechanism,	four-hole mounting			
16 A	7.5 kW	5.5 kW	3LD2022-0TK13	3LD2022-0TK13 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2122-0TK13	3LD2122-0TK13 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2222-0TK13	3LD2222-0TK13 + 3LD9200-5B
Knob-operated mechanism,	center-hole mounting Ø 22.5	mm		
16 A	7.5 kW	5.5 kW	3LD2050-0TK13	3LD2050-0TK13 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2150-0TK13	3LD2150-0TK13 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2250-0TK13	3LD2250-0TK13 + 3LD9200-5B

Scope of supply:

• Including terminal covers for the infeed side

Accessories, see pages 5-20 to 5-21

3LD2 EMERGENCY-STOP switches, front mounting, 25 ... 50 kA_{eff}

Selection

















7 7 7 7 7	
and a	

Without auxiliary switch	1 NO + 1 NC (standard version)	Without auxiliary switch	1 NO + 1 NC (standard version)
3LD2003-1TL53	3LD2003-2EP53	-	_
3LD2103-1TL53	3LD2103-2EP53	3LD2103-3VK53	3LD2103-4VP53
3LD2203-1TL53	3LD2203-1TL53 + 3LD9200-5B	3LD2203-3VK53	3LD2203-3VK53 + 3LD9200-5B
3LD2504-1TL53	3LD2504-1TP53 + 3LD9250-0BA	3LD2504-3VK53	3LD2504-3VK53 + 3LD9200-5B
3LD2704-0TK53 + 3LD9280-0B	3LD2704-0TK53 + 3LD9280-0B + 3LD9200-5B	-	-
3LD2804-0TK53 + 3LD9280-0B	3LD2804-0TK53 + 3LD9280-0B + 3LD9200-5B	-	-
3LD2305-1TL13	3LD2305-1TL13 + 3LD9200-5B	3LD2305-3VK13	3LD2305-3VK13 + 3LD9200-5B
3LD2405-1TL13	3LD2405-1TL13 + 3LD9200-5B	3LD2405-3VK13	3LD2405-3VK13 + 3LD9200-5B
3LD2054-1TL53	3LD2054-2EP53	-	-
3LD2154-1TL53	3LD2154-2EP53	-	-
3LD2254-1TL53	3LD2254-1TL53 + 3LD9200-5B	-	-
3LD2555-0TK53 + 3LD9250-0BA	3LD2555-0TK53 + 3LD9250-0BA + 3LD9200-5B	-	-
3LD2022-1TL13	3LD2022-1TL13 + 3LD9200-5B	-	-
3LD2122-1TL13	3LD2122-1TL13 + 3LD9200-5B	-	-
3LD2222-0TK13 + 3LD9220-0B	3LD2222-0TK13 + 3LD9220-0B + 3LD9200-5B	-	_
3LD2050-1TL13	3LD2050-1TL13 + 3LD9200-5B	-	-
3LD2150-0TK13 + 3LD9220-0B	3LD2150-0TK13 + 3LD9220-0B + 3LD9200-5B	-	-
3LD2250-0TK13 + 3LD9220-0B	3LD2250-0TK13 + 3LD9220-0B + 3LD9200-5B	-	-

3LD2 accessories for front mounting

Selection

Accessories for front mounting

				3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)		3LD27 (100 A)		
Switching conta	cts for N conductor (4t	:h contact)								
13	Contacts		Catalog No.							
	Leading switch-on,		3LD9220-0B		-					
1 1	lagging switch-off		3LD9250-0BA							
. 1			3LD9280-0B							
			3LD9240-0B							
N/PE terminals										
	Contacts		Catalog No.							
. 2	Through-type		3LD9200-2B	•						
1 1			3LD9220-2B		-					
14.7			3LD9250-2BA				•			
			3LD9280-2B						-	
			3LD9240-2B							
Auxiliary switch	es (standard version)									
-21	For mounting on the	e left and/or right								
ET.	 Lagging switch-on, leading switch-off 									
7	Contacts	Contact surface	Catalog No.							
0	1 NO + 1 NC	Standard	3LD9200-5B		•		•			
		Gold-plated	3LD9200-5BF							
Auxiliary switch	for mounting on the f	ront								
and the same of th	Mounted on the switc	h shaft								
8	For four-hole front mo	ounting and panel								
0 6	mounting onlyFor long leading times	(20 150 m)								
00		(160 A) and 3LD24 (250 A)								
• •	Contacts	Contact surface	Catalog No.							
	1 NO + 1 NC	Standard	3LD9280-5D		-		-		-	
			3LD9240-5D new							-
		Gold-plated	3LD9280-5DF	-	-	-	-		•	
			3LD9240-5DF							
Rotary operating	g mechanisms									
	 Lockable in 0 positio with up to 3 padlock 									
	Version	Mounting	Catalog No.							
	For main control	Center-hole mounting	3LD9224-1D	-	-	-				
	switches		3LD9284-1D				-			
		Four-hole mounting	3LD9224-1B	-	-	-				
			3LD9284-1B				•	•	•	
ALCO .	For EMERGENCY-STOP	Center-hole mounting	3LD9224-3D	-	-	-				
	switches		3LD9284-3D				-			
		Four-hole mounting	3LD9224-3B	•	-	•				
			3LD9284-3B				-	-	-	

3LD2 accessories for front mounting

Selection

Accessories for front mounting

				3LD20				3LD27			
				(16 A)	(25 A)	(32 A)	(63 A)	(100 A)	(125 A)	(160 A)	(250 A)
Knob-operated	l mechanisms										
100	Lockable in 0 position	n									
	with up to 3 padlock	(S									
	Version	Mounting	Catalog No.								
	For main control switches	Four-hole mounting	3LD9243-1B							•	•
	For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B							•	•
Terminal cover	rs										
	 Pack of 4 units 										
	Number of poles		Catalog No.								
4 4	1-pole		3LD9201-2A								
	•		3LD9221-2A								
100			3LD9251-2A								
0			3LD9281-2A								
			3LD9241-2A								
1.00	3-pole		3LD9221-0A								
			3LD9251-0A				•				
MA	4-pole		3LD9201-1A	•							
Inscription lab	els										
*	Pack of 10 units										
SWITCH	Inscription		Catalog No.								
MAIN SWITCH HAUPTSCHALTER	German / English (Haup	otschalter / Main Switch)	3LD9286-1A								
HAV	Without inscription		3LD9286-4A								
Assembly tools											
	For center-hole mouPack of 5 units	inting with nut									
	Version		Catalog No.								
	For main control switch EMERGENCY-STOP swit		3LD9256-0A	•	-	•	•				

Selection

3LD2 main control switches, panel mounting



Operating mechanisms, black

Number of poles 3P





	Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3A, 380 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
	Door-coupling rotary operat	ting mechanism, four-hole mo	ounting		
	16 A	7.5 kW	5.5 kW	3LD2013-0TK51	3LD2013-0TK51 + 3LD9200-5C
)	25 A	9.5 kW	7.5 kW	3LD2113-0TK51	3LD2113-0TK51 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2213-0TK51	3LD2213-0TK51 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2514-0TK51	3LD2514-0TK51 + 3LD9200-5C
,	100 A	37 kW	30 kW	3LD2714-0TK51	3LD2714-0TK51 + 3LD9200-5C
	125 A	45 kW	37 kW	3LD2814-0TK51	3LD2814-0TK51 + 3LD9200-5C
	160 A	75 kW	50 kW	3LD2318-0TK11	3LD2318-0TK11 + 3LD9200-5C
	250 A	132 kW	110 kW	3LD2418-0TK11	3LD2418-0TK11 + 3LD9200-5C
	Door-coupling rotary operat	ting mechanism, center-hole r	mounting Ø 22.5 mm		
	16 A	7.5 kW	5.5 kW	3LD2044-0TK51	3LD2044-0TK51 + 3LD9200-5C
	25 A	9.5 kW	7.5 kW	3LD2144-0TK51	3LD2144-0TK51 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2244-0TK51	3LD2244-0TK51 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2545-0TK51	3LD2545-0TK51 + 3LD9200-5C
	Defeatable door-coupling ki	nob-operated mechanism, fou	ır-hole mounting		
	16 A	7,5 kW	5,5 kW	3LD2017-0TK11	3LD2017-0TK11 + 3LD9200-5C
	32 A	11,5 kW	9,5 kW	3LD2217-0TK11	3LD2217-0TK11 + 3LD9200-5C
	63 A	22 kW	18,5 kW	3LD2517-0TK11	3LD2517-0TK11 + 3LD9200-5C

Scope of supply:

- Including terminal covers for the infeed side
- Up to 125 A with integrated tolerance compensation

Mounting:

• Up to 125 A using screws or snap-on mounting on 35 mm mounting rails

Accessories, see pages 5-26 to 5-27

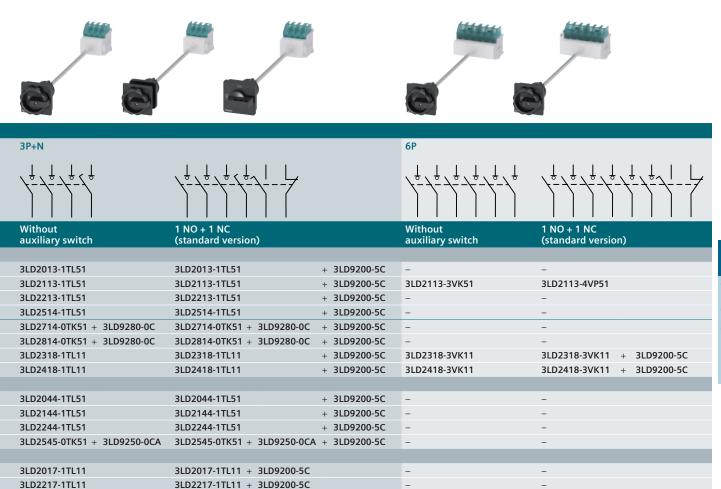
LG

3LD2517-1TL11

3LD2 main control switches, panel mounting, 25 ... 50 kA_{eff}

3LD2517-1TL11 + 3LD9200-5C

Selection



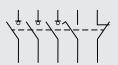
3LD2 EMERGENCY-STOP switches, panel mounting



Operating mechanisms, red/yellow

Number of poles 3P





Ì	Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3A, 380 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
	Door-coupling rotary operat	ing mechanism, four-hole mou	unting		
	16 A	7.5 kW	5.5 kW	3LD2013-0TK53	3LD2013-0TK53 + 3LD9200-5C
	25 A	9.5 kW	7.5 kW	3LD2113-0TK53	3LD2113-0TK53 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2213-0TK53	3LD2213-0TK53 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2514-0TK53	3LD2514-0TK53 + 3LD9200-5C
	100 A	37 kW	30 kW	3LD2714-0TK53	3LD2714-0TK53 + 3LD9200-5C
	125 A	45 kW	37 kW	3LD2814-0TK53	3LD2814-0TK53 + 3LD9200-5C
	160 A	75 kW	50 kW	3LD2318-0TK13	3LD2318-0TK13 + 3LD9200-5C
	250 A	132 kW	110 kW	3LD2418-0TK13	3LD2418-0TK13 + 3LD9200-5C
	Door-coupling rotary operat	ing mechanism, center-hole m	ounting Ø 22.5 mm		
	16 A	7.5 kW	5.5 kW	3LD2044-0TK53	3LD2044-0TK53 + 3LD9200-5C
	25 A	9.5 kW	7.5 kW	3LD2144-0TK53	3LD2144-0TK53 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2244-0TK53	3LD2244-0TK53 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2545-0TK53	3LD2545-0TK53 + 3LD9200-5C
	Defeatable door-coupling kr	nob-operated mechanism, four	r-hole mounting		
	16 A	7,5 kW	5,5 kW	3LD2017-0TK13	3LD2017-0TK13 + 3LD9200-5C
	32 A	11,5 kW	9,5 kW	3LD2217-0TK13	3LD2217-0TK13 + 3LD9200-5C
	63 A	22 kW	18,5 kW	3LD2517-0TK13	3LD2517-1TL13 + 3LD9200-5C

Scope of supply:

- Including terminal covers for the infeed side
- Up to 125 A with integrated tolerance compensation

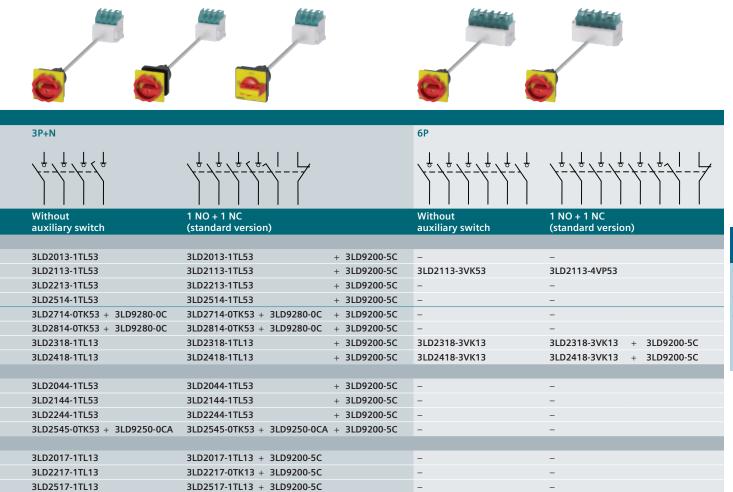
Mounting:

• Up to 125 A using screws or snap-on mounting on 35 mm mounting rails

Accessories, see pages 5-26 to 5-27

3LD2 EMERGENCY-STOP switches, panel mounting, 25 ... 50 kA_{eff}

Selection



3LD2 accessories for panel mounting

Selection

Accessories for panel mounting

				3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Switching co	ontacts for N conducto	or (4th contact)									
	Contacts Leading switch-on, lagging switch-off		Catalog No. 3LD9220-0C 3LD9250-0CA		•	٠					
N. P.			3LD9280-0C 3LD9240-0C					•	•		
N/PE termina	als										
1	Contacts		Catalog No.								
. 19	Through-type		3LD9200-2C	-							
: 19			3LD9220-2C								
1			3LD9250-2CA				-				
			3LD9280-2C					-	-		
			3LD9240-2C								
Auxiliary sw	itches (standard versi										
	For mounting on the Lagging switch-on, leading switch-off	e left and/or right									
THE STREET	Contacts	Contact surface	Catalog No.								
W. Carlotte	1 NO + 1 NC	Standard	3LD9200-5C	•	•		•		•	•	
		Gold-plated	3LD9200-5CF	-	•		•		•	-	
	2 NO	Standard	3LD9200-6C		•		•			-	
Auxiliary sw	itch for mounting on										
	 Mounted on the swi For long leading tim 	es (20 150 ms)									
0 .	Contacts	Contact surface	Catalog No.								
	1 NO + 1 NC	Standard	3LD9280-5D 3LD9240-5D	-	•	•	-	•	•		
•		Gold-plated	3LD9280-5DF 3LD9240-5DF	•	•	•	•	•	•	_	_
Datam: anau			3LD9240-5DF							_	•
Rotary opera	ating mechanisms										
	Lockable in 0 position with up to 3 padlock	(S									
	Version	Mounting	Catalog No.								
(3)	For main control switches	Center-hole mounting	3LD9224-1D	•	•	•					
9	Switches	E LI LI C	3LD9284-1D	_		_	•				
		Four-hole mounting	3LD9224-1B	-	•	-		_	_		
			3LD9284-1B				•	•	•		
ALC: N		Center-hole mounting	3LD9224-3D	•	-	•					
	switches		3LD9284-3D				•				
0		Four-hole mounting	3LD9224-3B	-	-	-					
			3LD9284-3B				•	-	•		
Knob-operat	ted mechanisms										
	Lockable in 0 position with up to 3 padlocl										
	Version	Mounting	Catalog No.								
	For main control switches	Four-hole mounting	3LD9243-1B							•	•
	For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B							•	•

3LD2 accessories for panel mounting

Selection

Accessories for panel mounting

				3LD20	3LD21	3LD22	3LD25	3LD27	3LD28	3LD23	3LD24
				(16 A)	(25 A)	(32 A)	(63 A)	(100 A)	(125 A)	(160 A)	(250 A)
8UC7 door		perating mechanisms									
	To achieve defe 3LD27 (100 A)	eatability from to 3LD24 (250 A)									
	Туре	Version	Catalog No.								
	8UC71	Standard	8UC7110-1BB					-	-		
		EMERGENCY-STOP	8UC7120-3BB					•	•		
	8UC72	Standard	8UC7210-1BB							-	-
		EMERGENCY-STOP	8UC7220-3BB	_							
Coupling dr											
NO PE	Version		Catalog No.								
1 3	For 8UC71 door-co		8UC6011					•	•		
4	For 8UC72 door-co		8UC6012								_
	rotary operating m		80C6012							-	-
Switching sl				-		_		-			
1275	Cross-section	Length	Catalog No.								
	6 × 6 mm	300 mm	3LD9205-0C								
		600 mm	3LD9205-2C								
	8 × 8 mm	300 mm	3LD9245-0C								-
		600 mm	3LD9245-2C								
Coupling pie	eces										
	Without ON-loc	k									
10 -			Catalog No.								
			3LD9242-4F								
10											
Terminal co	vers										
	Pack of 4 units										
	Number of poles		Catalog No.								
4.4	1-pole		3LD9201-2A								
1.1			3LD9221-2A								
			3LD9251-2A								
0			3LD9281-2A								
			3LD9241-2A								-
MA	3-pole		3LD9221-0A		•						
			3LD9251-0A								
000											
4.7.	41-		21 00 204 4 4								
	4-pole		3LD9201-1A	•							
FFF											
Inscription I	labels										
*	Pack of 10 units			_							
SWITCH SWITCH	 Cannot be used 	with defeatable 3LD2.17									
MAIN SWITTER HAUPTSCHALTER	door-coupling r mechanisms	otary operating									
	Inscription		Catalog No.								
	•	Hauptschalter / Main Switch)	3LD9286-1A	-		-					
		induplacinanter / Iviairi avvitteri)			_			-			
	_	1	31 D9286-44								
Assembly to	Without inscription	<u> </u>	3LD9286-4A	_	•	•			•		
Assembly to	Without inscription		3LD9286-4A	•		Ė	Ė	Ė	Ė		
Assembly to	Without inscription	mounting with nut	3LD9286-4A	Ė		Ė					
Assembly to	Without inscription pols • For center-hole		3LD9286-4A Catalog No.	Ė	Ė	İ		İ	Ė		
Assembly to	Without inscription ools • For center-hole • Pack of 5 units Version			÷	÷	Ė		Ė			

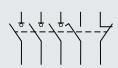
3LD2 main control switches, installation in distribution boards



Operating mechanisms, black

Number of poles 3P





At AC-21A, 380 440 V		At AC-3A, 380 440 V	auxiliary switch	(standard version)
Knob-operated mechanisms	s with masking plate			
16 A	7.5 kW	5.5 kW	3LD2030-0TK11	3LD2030-0TK11 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2130-0TK11	3LD2130-0TK11 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2230-0TK11	3LD2230-0TK11 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2530-0TK11	3LD2530-0TK11 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2730-0TK11	3LD2730-0TK11 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2830-0TK11	3LD2830-0TK11 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2330-0TK11	3LD2330-0TK11 + 3LD9200-5C
250 A	132 kW	110 kW	3I D2430-0TK11	3LD2430-0TK11 + 3LD9200-5C

- Scope of supply:
 3LD23/3LD24 including terminal covers for the infeed side
- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails
- Up to 125 A cap and mounting dimensions acc. to DIN 43880

Accessori	es			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Switching co	ontacts for N conduc	tor (4th contact)									
<i>(3)</i>	Contacts		Catalog No.								
	Leading switch-on,	,	3LD9220-0C								
1 1	lagging switch-off		3LD9250-0CA								
			3LD9280-0C								
			3LD9240-0C								•
N/PE termin	als										
100	Contacts		Catalog No.								
. 19	Through-type		3LD9200-2C								
1 1			3LD9220-2C		-	-					
1			3LD9250-2CA								
			3LD9280-2C								
			3LD9240-2C								
Auxiliary sw	itches (standard ver	sion)									
E	 For mounting o Lagging switch-leading switch-o 										
E40	Contacts	Contact surface	Catalog No.								
	1 NO + 1 NC	Standard	3LD9200-5C	-						-	-
		Gold-plated	3LD9200-5CF								

3LD9200-6C

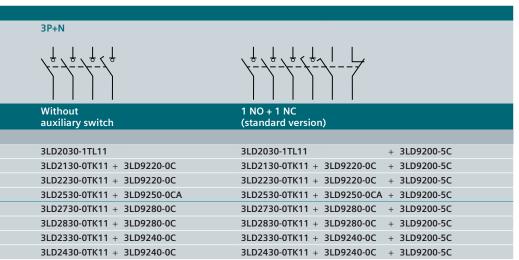
2 NO

Standard

3LD2 main control switches, installation in distribution boards, 25 \dots 50 kA $_{
m eff}$

Selection





			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)		3LD23 (160 A)	3LD24 (250 A)
Terminal cove	ers									
	 Pack of 4 units 									
	Number of poles	Catalog No.								
	1-pole	3LD9201-2A								
		3LD9221-2A		•						
0		3LD9251-2A								
		3LD9281-2A						-		
		3LD9241-2A							-	
LARA	3-pole	3LD9221-0A		-						
		3LD9251-0A				•				
MI	4-pole	3LD9201-1A	•							

3LD2 EMERGENCY-STOP switches, installation in distribution boards, 25 \dots 50 kA $_{
m eff}$

3LD2 EMERGENCY-STOP switches, installation in distribution boards



Operating mechanisms, red/yellow

Number of poles 3P





Uninterrupted current I _u At AC-21A, 380 440 V		Operational power P At AC-3A, 380 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Knob-operated mechanisms	with masking plate			
16 A	7.5 kW	5.5 kW	3LD2030-0TK13	3LD2030-0TK13 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2130-0TK13	3LD2130-0TK13 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2230-0TK13	3LD2230-0TK13 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2530-0TK13	3LD2530-0TK13 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2730-0TK13	3LD2730-0TK13 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2830-0TK13	3LD2830-0TK13 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2330-0TK13	3LD2330-0TK13 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2430-0TK13	3LD2430-0TK13 + 3LD9200-5C

Scope of supply:

• 3LD23/3LD24 including terminal covers for the infeed side

Mounting:

- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails
- Up to 125 A cap and mounting dimensions acc. to DIN 43880

Accessories

3LD20	3LD21	3LD22	3LD25	3LD27	3LD28	3LD23	3LD24
(16 A)	(25 A)	(32 A)	(63 A)	(100 A)	(125 A)	(160 A)	(250 A)

Ittili
2
1
2
No.
2
10

Switching co	Switching contacts for N conductor (4th contact)									
1-9	Contacts	Catalog No.								
	Leading switch-on,	3LD9220-0C		-						
	lagging switch-off	3LD9250-0CA								
		3LD9280-0C								
		3LD9240-0C								

N/PE terminals



Contacts	Catalog No.				
Through-type	3LD9200-2C				
3 71	3LD9220-2C				
	3LD9250-2CA				
	3LD9280-2C				
	3LD9240-2C				

Auxiliary switches (standard version)



•	For mounting on the left and/or right
•	Lagging switch-on, leading switch-off
	_

Contacts	Contact surface	Catalog No.								
1 NO + 1 NC	Standard	3LD9200-5C	-	-	-	-	-	-	-	-
	Gold-plated	3LD9200-5CF		-			-	-	-	-
2 NO	Standard	3LD9200-6C	-	-	-	-	-	-	-	-

Terminal covers





Number	of	po	le
1-pole			





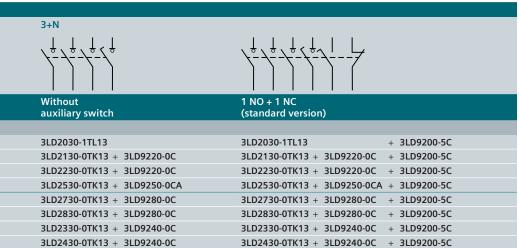
Add	4

Number of poles	catalog No.				
1-pole	3LD9201-2A				
•	3LD9221-2A				
	3LD9251-2A				
	3LD9281-2A				
	3LD9241-2A				
3-pole	3LD9221-0A				
•	3LD9251-0A		•		
4-pole	3LD9201-1A				

5-30

3LD2 EMERGENCY-STOP switches, installation in distribution boards, 25 \dots 50 kA $_{
m eff}$





Disconnect Switches

3LD switch disconnectors

DC isolators, 50 kA_{rms}

DC isolators





Number of poles 8P



Mains voltage	Rated operational current l _e At DC-21A, 800 V DC	Rated operational current l _e At DC-22A, 800 V DC	Without auxiliary switch
Knob-operated med	chanisms		
800 V DC	32 A	16 A	3LD2230-8VQ11-0AF6

Accessories for 3LD2 main control and EMERGENCY-STOP switches

Accessories for 3LD2 main control and **EMERGENCY-STOP** switches

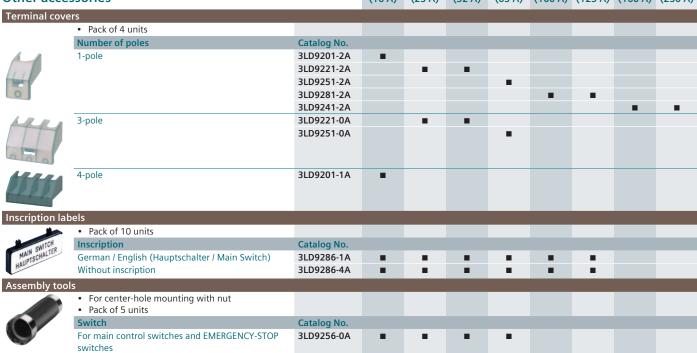
LIVILITO	LINCT-STOI	SVVILGITES		21.220	21.224	21.522	21.525	21.027	21.020	21 222	21.024
Additional	poles			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Switching cor	ntacts for N conductor	(4th contact)									
	Version For front mounting	Contacts Leading switch-on, lagging switch-off	Catalog No. 3LD9220-0B 3LD9250-0BA 3LD9280-0B 3LD9240-0B		•	٠					
	For panel mounting, installation in distribution boards	Leading switch-on, lagging switch-off	3LD9220-0C 3LD9250-0CA 3LD9280-0C 3LD9240-0C		•	•	•				
N/PE terminal	ls										
	Version For front mounting	Contacts Through-type	Catalog No. 3LD9200-2B 3LD9220-2B 3LD9250-2BA 3LD9280-2B 3LD9240-2B	•	•	•		•			
	For panel mounting, installation in distribution boards	Through-type	3LD9200-2C 3LD9220-2C 3LD9250-2CA 3LD9280-2C 3LD9240-2C	•	•	•	•				
Auxiliary swit	tches (standard version	1)									
,	 For mounting on the Lagging switch-on, leading switch-off 	•									
2	Version	Contacts	Catalog No.								
	For front mounting	1 NO + 1 NC, standard 1 NO + 1 NC, gold-plated	3LD9200-5B 3LD9200-5BF	:	:	:	:	:	:	:	:
	For panel mounting, installation in distribution boards	1 NO + 1 NC, standard 1 NO + 1 NC, gold-plated 2 NO, standard	3LD9200-5C 3LD9200-5CF 3LD9200-6C	:	:	:	:	:	:	:	:
Auxiliary swit	tch for mounting on the	e front									
	 Mounted on the fror For four-hole front n mounting only For long leading time 	nt of the switch shaft nounting and panel es (20 150 ms)									
• •	Contacts	Contact surface	Catalog No.								
	1 NO + 1 NC	Standard	3LD9280-5D 3LD9240-5D	•	•	•	•	•	•		-
		Gold-plated	3LD9280-5DF			-	-	-	-		

3LD9240-5DF

Accessories for 3LD2 main control and EMERGENCY-STOP switches

Selectio

	mechanisms				(16 A)	(25 A)	(32 A)	(63 A)	(100 A)	(125 A)	(160 A)	(250 A)
Rotary opera	ting mechanisms Lockable in 0 position	with up to 2 pa	dlocks									
	Center-hole mountin Four-hole mounting,	g, including seal										
	Switch	Mounting		Catalog No.								
	For main control	Center-hole m	ounting	3LD9224-1D								
2	switches		J	3LD9284-1D				-		•		
•		Four-hole mou	unting	3LD9224-1B								
				3LD9284-1B								
-	For EMERGENCY-STOP	Center-hole m	ounting	3LD9224-3D			-					
	switches			3LD9284-3D								
P		Four-hole mou	unting	3LD9224-3B								
				3LD9284-3B				•	-	-		
nob-operate	ed mechanisms											
1:	Lockable in 0 positionIncluding seal	n with up to 3 pa	idlocks									
	Switch	Mounting		Catalog No.								
	For main control	Four-hole mou	unting	3LD9243-1B							•	•
	switches											
	For EMERGENCY-STOP switches	Four-hole mou	unting	3LD9243-3B							•	•
witching sh	afts											
1115	Version	Cross-section	Length	Catalog No.								
	For panel mounting	6 × 6 mm	300 mm	3LD9205-0C			-	-		-		
			600 mm	3LD9205-2C								
		8 × 8 mm	300 mm	3LD9245-0C								
			600 mm	3LD9245-2C								•
oupling pie	Without ON-lock				-		_				_	
5				C · L N								
8 - 6	Version			Catalog No.							_	_
2	For panel mounting			3LD9242-4F								•
					3LD20	3LD21	3LD22	3LD25	3LD27	3LD28	3LD23	3LD2
ther acce	essories				(16 A)	(25 A)	(32 A)	(63 A)		(125 A)		
erminal cov												
	Pack of 4 units											
	Number of poles			Catalog No.								
	1-pole			3LD9201-2A								
1 1 1				3LD9221-2A								



3LD5 UL main control and EMERGENCY-STOP switches

Basic units for front mounting



3LD5020 (3-pole)



3LD5020 (4-pole)



3LD5420 (3-pole)



3LD5420 (4-pole)

Basic units, panel mounting with direct operating mechanism



3LD5000 (3-pole)



3LD5000 (4-pole)



3LD5400 (3-pole)



3LD5400 (4-pole)

Basic units, panel mounting with door-coupling rotary operating mechanism



3LD5010 (3-pole)



3LD5010 (4-pole)



3LD5410 (3-pole)



3LD5410 (4-pole)

Additional poles and auxiliary switches



N switching contact



N/PE terminals (through-type)



Auxiliary switches (standard version)



Auxiliary switch for mounting on the front

Operating mechanisms















Rotary operators for four-hole mounting

Coupling heads with and without tolerance compensation

Supplementary handles Switching shafts for UL508A/NFPA79

Other accessories



Terminal covers, 1-pole



3 and 4-pole



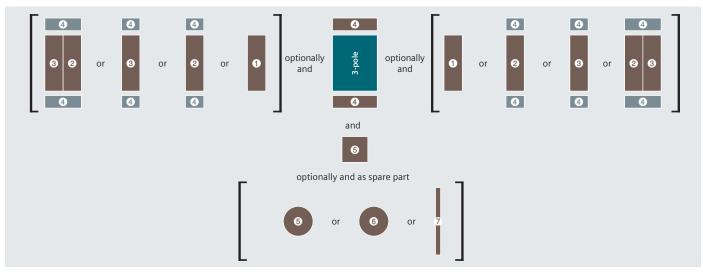
Inscription labels (with and without inscription)

Note:

You will find a detailed range of accessories with the basic units.

3LD5 UL mounting and accessories

Mounting concept and accessories



Legend

- Auxiliary switch
- 2 N switching contact 1)
- N/PE terminal 4 Terminal cover
- 6 Rotary operating mechanism, four-hole mounting
- 6 Knob-operated mechanism, four-hole mounting
- Switching shaft (300 oder 600 mm)

¹⁾ The N switching contact @ first has to be mounted on the basic unit



Main control switches acc. to UL

The certification according to UL489 makes the 3LD5 UL ideal for use as a main control switch for machinery and plants for export to the NAFTA states. The variety of accessories makes it especially suitable as a main disconnect switch for industrial machinery. The switch is also certified according to UL508 and can also be used as a manual motor controller.

Mounting types

Front mounting of basic units



The switches for front mounting are mounted on the inside of covers, side panels or, if applicable, control cabinet doors (depending on the applicable standard and switching function). Installation is achieved by 4-hole mounting of the handle. This switch is especially suitable when door interlocking is not required or is implemented in a different way.

Panel mounting with direct operating mechanism



The switches for panel mounting with direct operating mechanism up to 30 A are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 100 to 160 A (3LD54 ... 3LD58) are exclusively screwed onto mounting panels.

Basic units, panel mounting with door-coupling rotary operating mechanism



The switches for panel mounting up to 30 A (3LD50) are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 100 to 160 A (3LD54 ... 3LD58) are exclusively screwed onto mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. The rotary operating mechanisms are also defeatable, i.e. it is possible to open the control cabinet door with a deliberate action while the switch is in the ON position. To meet the requirement acc. to UL508A/NFPA79, a supplementary handle can be mounted on the switch. Combined with the intermediate handle, the shaft can no longer be removed.

3LD5 UL main control and EMERGENCY-STOP switches, front mounting, SCCR 50 - 65 kA

Selection

3LD5 UL main control and EMERGENCY-STOP switches, front mounting





Operating mechanisms, black
Number of poles 3P 3P+N

5	3P		
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\	1



Uninterrupted current I _u At AC-21A, 380 440 V	General use acc. UL489/60947-4-1	Operational power P At AC-23A, 380 440 V		
Rotary operating mechanism, four	-hole mounting			
32	30	15	3LD5020-0TK11	3LD5020-0TL11
63	60	30	3LD5220-0TK11	3LD5220-0TL11
100	100	45	3LD5420-0TK11	3LD5420-0TL11
125	125	55	3LD5620-0TK11	3LD5620-0TL11
160	150	75	3LD5820-0TK11	3LD5820-0TL11

Scope of supply:

• Including terminal covers for the infeed side

SCONN

Accessories for front mounting					3LD52	3LD54	3LD56	3LD58
Switching c	ontacts for N conductor (4t	h contact)						
	Contacts		Catalog No.					
-	Leading switch-on, laggin	g switch-off	3LD9250-0BA					
	3 3 3		3LD9280-0B					
2		3LD9240-0B			-	•	•	
N/PE termin	als							
100	Contacts		Catalog No.					
. 10	Through-type		3LD9250-2BA	-				
: 19			3LD9280-2B					
			3LD9240-2B			•	•	•
Auxiliary sw	vitches (standard version)							
9	 For mounting on the le 							
C I	Lagging switch-on, lead							
	Contacts	Contact surface	Catalog No.					
20-1	1 NO + 1 NC	Standard	3LD9200-5B		•	•		
May 1		Gold-plated	3LD9200-5BF		•			
Auxiliary sw	vitch for mounting on the f							
0	Mounted on the front of the switch shaftFor long leading times (20 150ms)							
	Contacts	Contact surface	Catalog No.					
	1 NO + 1 NC	Standard	3LD9280-5D					
			3LD9240-5D					
		Gold-plated	3LD9280-5DF	-	•			
			3LD9240-5DF					
Rotary oper	ating mechanisms							
	 Auxiliary switch for mo 	unting on the front						
	Version		Catalog No.					
	For main control switches		3LD9284-1B					
	For EMERGENCY-STOP swi	tches	3LD9284-3B	•	•			

3LD5 UL main control and EMERGENCY-STOP switches, front mounting, SCCR 50 - 65 kA

Selection





Op	erating mechanisr	ns, red/yellow
3P		3P+N
/		7-7-7-7
3L	D5020-0TK13	3LD5020-0TL13
3L	D5220-0TK13	3LD5220-0TL13
3L	D5420-0TK13	3LD5420-0TL13
3L	D5620-0TK13	3LD5620-0TL13
3L	D5820-0TK13	3LD5820-0TL13

			3LD50	3LD52	3LD54	3LD56	3LD58
Knob-operate	d mechanisms						
f to	 Lockable in 0 position with up to 3 padlocks 						
	Version	Catalog No.					
	For main control switches	3LD9243-1B					
	For EMERGENCY-STOP switches	3LD9284-3B			•	•	•
Terminal cove	ers						
	Pack of 4 units						
	Number of poles	Catalog No.					
44	1-pole	3LD9251-2A					
		3LD9281-2A					
7		3LD9241-2A			•	•	•
	3-pole	3LD9251-0A	•				
Inscription lal	oels						
MAIN SWITCH	Pack of 10 units						
MAIN SWITCH HALPTSCHALTER	Inscription	Catalog No.					
1	German / English (Hauptschalter / Main Switch)	3LD9286-1A					
	Without inscription	3LD9286-4A					

3LD5 UL main control and EMERGENCY-STOP switches, panel mounting, direct operating mechanism, SCCR 50 ... 65 kA

3LD5 UL main control and EMERGENCY-STOP switches, panel mounting with direct operating mechanism





Number of poles 3P

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Operating mechanisms, black



Uninterrupted current I _u At AC-21A, 380 440 V	General use acc. UL489/508	Operational power P At AC-23A, 380 440 V		
Rotary operating mechanism, four	-hole mounting			
32	30	15	3LD5000-0TK11	3LD5000-0TL11
63	60	30	3LD5200-0TK11	3LD5200-0TL11
100	100	45	3LD5400-0TK11	3LD5400-0TL11
125	125	55	3LD5600-0TK11	3LD5600-0TL11
160	150	75	3LD5800-0TK11	3LD5800-0TL11

Scope of supply:

• Including terminal covers for the infeed side

DISCONNECT	Ή Ε

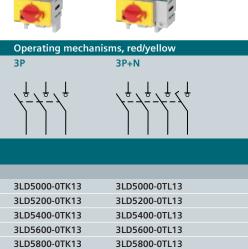
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Accessorie	3LD50	3LD52	3LD54	3LD56	3LD58			
Switching cor	ntacts for N conductor (4th	contact)						
	Contacts		Catalog No.					
Co man	Leading switch-on, lagging s	witch-off	3LD9250-0CA					
3			3LD9280-0C					
S. Carrier			3LD9240-0C			•	•	-
N/PE terminal	ls							
63	Contacts		Catalog No.					
	Through-type		3LD9250-2CA					
: 1			3LD9280-2C					
1			3LD9240-2C			•	•	-
Auxiliary swit								
9	For mounting on the left and/or right							
THE I	 Lagging switch-on, leadin Contacts 	Contact surface	Catalog No.					
N7 7.	1 NO + 1 NC	Standard	3LD9200-5C		_		-	
67	TNOTTNC	Gold-plated	3LD9200-5CF					
Terminal cove	ers	ooia piatea	323,200 30.		_		_	
	Pack of 4 units							
	Number of poles		Catalog No.					
44	1-pole		3LD9251-2A					
			3LD9281-2A					
4			3LD9241-2A			•	•	•
	3-pole		3LD9251-0A	•				

3LD5 UL main control and EMERGENCY-STOP switches, panel mounting, direct operating mechanism, SCCR 50 ... 65 kA







3LD5 UL main control and EMERGENCY-STOP switches, panel mounting, door-coupling rotary operating mechanism, SCCR 50 ... 65 kA

3LD5 UL main control and EMERGENCY-STOP switches, panel mounting with door-coupling rotary operating mechanism



Operating mechanisms, black

Number of poles 3P





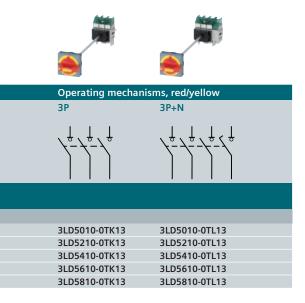
Uninterrupted current I _u At AC-21A, 380 440 V	General use acc. UL489/508	Operational power P At AC-23A, 380 440 V		
Rotary operating mechanism, four	-hole mounting			
32	30	15	3LD5010-0TK11	3LD5010-0TL11
63	60	30	3LD5210-0TK11	3LD5210-0TL11
100	100	45	3LD5410-0TK11	3LD5410-0TL11
125	125	55	3LD5610-0TK11	3LD5610-0TL11
160	150	75	3LD5810-0TK11	3LD5810-0TL11

Scope of supply:

- Including terminal covers for the infeed side
- Defeatable door-coupling rotary operating mechanisms
- Without tolerance compensation

Accessorie	es for panel moun	ting with door mounted rotary o	perator	3LD50	3LD52	3LD54	3LD56	3LD58
	ntacts for N conductor							
	Contacts	(· · · · · · · · · · · · · · · · · · ·	Catalog No.					
19	Leading switch-on, lago	ning switch-off	3LD9250-0CA					
- pt	, , , , , , , , , , , , , , , , , , ,	, 3	3LD9280-0C					
S. Andrews			3LD9240-0C			•	•	•
N/PE termina	ıls							
1-0	Contacts		Catalog No.					
. 1	Through-type		3LD9250-2CA					
1 1			3LD9280-2C					
		3LD9240-2C			-	-	•	
Auxiliary swi	tches (standard version)						
2	For mounting on the							
-	Lagging switch-on, le							
17 5	Contacts	Contact surface	Catalog No.					
336	1 NO + 1 NC	Standard	3LD9200-5C					
-		Vergoldet	3LD9200-5CF		-			-
Auxiliary swi	tch for mounting on the							
	Mounted on the from							
8	For long leading time							
0 6	Contacts	Contact surface	Catalog No.					
.00 00	1 NO + 1 NC	Standard	3LD9280-5D		_			
6			3LD9240-5D				-	•
		Gold-plated	3LD9280-5DF					
			3LD9240-5DF					
Handles								
		king frame, but without an extension shaft or						
-	coupling driver							
	• Can be locked with u							
	Labeling	Color	Catalog No.					
	O-I	Gray	8UD1771-2AD01		-			
			8UD1731-2AD01			-	•	
		Red/yellow	8UD1771-2AD05		•			
			8UD1731-2AD05					

3LD5 UL main control and EMERGENCY-STOP switches, panel mounting, door-coupling rotary operating mechanism, SCCR 50 ... 65 kA



Supplementary handles for door-coupling rotary operating mechanism					3LD50	3LD52	3LD54	3LD56	3LD58
Can be locked with up to 1 padlocks in 0 position	Supplementa	ry handles for door-couplin	g rotary operating mechanism						
Labeling	· ·	Can be locked with up to 1 padlocks in 0 position							
Red/yellow 3LD9247-1C				Catalog No.					
Redlyellow 3LD9287-3C		0-1	Gray	3LD9287-1C					
Coupling drivers				3LD9247-1C					
Version			Red/yellow	3LD9287-3C		-			
Version				3LD9247-3C					
With tolerance compensation	Coupling driv								
Substituting shafts Substituting shafts									
### Switching shafts Without tolerance compensation ###################################	T.	With tolerance compensation	1			-			
Pack of 10 units							-		-
Pack of 4 units Number of poles 1-pole 3-pole 3-pole 3-pole 1-pole 3-pole 1-pole 3-pole 3-pole 1-pole 3-pole 1-pole 3-pole 3-pole 1-pole 3-pole 3-pole 3-pole 3-pole 3-pole 3-pole 3-pole 3-pole 1-pole 3-pole 4-pole pole pole pole pole pole pole pole		Without tolerance compensa	tion			-			
• Pack of 4 units Number of poles				8UD1900-2HA00				-	
Number of poles	Terminal cov								
1-pole 3LD9251-2A 3LD9281-2A 3LD9281-2A 3LD9241-2A 3LD9241-2A 3LD9241-2A 3LD9241-2A 3LD9251-0A 3-pole 3LD9251-0A 3LD9251-0A 3LD9251-0A 3LD9251-0A 3LD9251-0A 3LD9251-0A 3LD9251-0A 3LD9251-0A 3LD9251-0A 3LD9251-0A 3LD9251-0A 3LD925-1A 3LD									
3-pole Substituting shafts Switching shafts		•							
3-pole 3LD9241-2A 3LD9251-0A Pack of 10 units Inscription German / English (Hauptschalter / Main Switch) Without inscription Switching shafts section 6 × 6 mm 300 mm 3LD9205-2C 8 × 8 mm 300 mm 3LD9245-0C		1-pole							
Switching shafts Section Length Catalog No. Section						-			
Inscription labels Pack of 10 units Inscription Catalog No. German / English (Hauptschalter / Main Switch) 3LD9286-1A	3			3LD9241-2A			•		
Pack of 10 units Inscription German / English (Hauptschalter / Main Switch) Without inscription Switching shafts Section Length Catalog No.		3-pole		3LD9251-0A	•				
Inscription German / English (Hauptschalter / Main Switch) 3LD9286-1A	Inscription la								
German / English (Hauptschalter / Main Switch) 3LD9286-1A ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	MAIN SMICE								
Without inscription 3LD9286-4A ■ ■ ■ Switching shafts section Length Catalog No. 6 × 6 mm 300 mm 3LD9205-0C ■ ■ 600 mm 3LD9205-2C ■ ■ ■ 8 × 8 mm 300 mm 3LD9245-0C ■ ■ ■	HALPTSCHALTER								
Switching shafts section Length Catalog No. 6 × 6 mm 300 mm 3LD9205-0C ■ 600 mm 3LD9205-2C ■ ■ 8 × 8 mm 300 mm 3LD9245-0C ■ ■			llter / Main Switch)			_	_	•	_
section Length Catalog No. 6 × 6 mm 300 mm 3LD9205-0C ■ 600 mm 3LD9205-2C ■ ■ 8 × 8 mm 300 mm 3LD9245-0C ■ ■				3LD9286-4A					
6 × 6 mm 300 mm 3LD9205-0C ■ ■ 600 mm 3LD9205-2C ■ ■ 8 × 8 mm 300 mm 3LD9245-0C ■ ■ ■	Switching sh								
600 mm 3LD9205-2C ■ ■ 8 × 8 mm 300 mm 3LD9245-0C ■ ■ ■									
8 × 8 mm 300 mm 3LD9245-0C ■ ■	////	6 × 6 mm				-			
					•	-			
600 mm 3LD9245-2C ■ ■ ■		8 × 8 mm							•
			600 mm	3LD9245-2C					

Accessories for $3LD5\ L$	JL main control and	EMERGENCY-ST	OP switches
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Selection

Switching contacts for N conductor (4th contact) for front mounting Contacts Catalog No. Leading switch-on, lagging switch-off 3LD9250-0BA	
Leading switch-on, lagging switch-off 3LD9250-0BA ■	
3LD9280-0B ■	•
3LD9240-0B ■ ■	
Switching contacts for N conductor (4th contact) for panel mounting	
Contacts Catalog No.	
Leading switch-on, lagging switch-off 3LD9250-0CA ■	
3LD9280-0C ■	
3LD9240-0C ■ ■	•
N/PE terminals for front mounting	
Contacts Catalog No.	
Through-type 3LD9250-2BA ■	
3LD9280-2B ■	
3LD9240-2B ■ ■	-
N/PE terminals for panel mounting	
Contacts Catalog No.	
Through-type 3LD9250-2CA ■	
3LD9280-2C ■	
3LD9240-2C ■ ■	
Auxiliary switches (standard version) for front mounting	
For mounting on the left and/or right	
Lagging switch-on, leading switch-off	
Contacts Contact surface Catalog No.	
1 NO + 1 NC Standard 3LD9200-5B	
Gold-plated 3LD9200-5BF	_
For mounting on the left and/or right	
Lagging switch-on, leading switch-off	
Contacts Contact surface Catalog No.	
1 NO + 1 NC Standard 3LD9200-5C ■ ■ ■ ■	
Gold-plated 3LD9200-5CF ■ ■ ■	-
Auxiliary switch for mounting on the front	
 Mounted on the front of the switch shaft For long leading times (20 150ms) 	
Contacts Contact surface Catalog No.	
1 NO + 1 NC Standard 3LD9280-5D ■ ■	
3LD9240-5D ■ ■	•
Gold-plated 3LD9280-5DF ■ ■	
3LD9240-5DF ■ ■	

Accessories for 3LD5 UL main control and EMERGENCY-STOP switches

Selection

Operating	mechanisms	1		3LD50	3LD52	3LD54	3LD56	3LD58
Rotary opera	ting mechanism for front mou	ınting						
	Lockable in 0 position with a							
	Version		Catalog No.					
	For main control switches		3LD9284-1B					
	For EMERGENCY-STOP switches	5	3LD9284-3B	-	-			
Knob-operate	ed mechanism for front moun	ting						
f to	• Lockable in 0 position with t	ıp to 3 padlocks						
	Version		Catalog No.					
	For main control switches		3LD9243-1B					
	For EMERGENCY-STOP switches	5	3LD9284-3B			-	•	-
Handles for p	oanel mounting							
		me, but without an extension shaft or						
-	coupling driver	مراء ماله م						
P	Can be locked with up to 3 p Labeling	Color	Catalog No.					
	O-I	Gray	8UD1771-2AD01	-	_			
	0-1	Gray	8UD1771-2AD01 8UD1731-2AD01	-	•			
		Red/yellow	8UD1771-2AD01		_		-	-
		Red/yellow	8UD1771-2AD05	-	•			
Supplementa	ry handles for door-coupling	rotary operating mechanism						
	For requirements according	to UL508A/NFPA79						
30	 Can be locked with up to 1 p 							
	Can only be switched on by							
1	Labeling	Color	Catalog No.					
	O-I	Gray	3LD9287-1C	-				
			3LD9247-1C			-	•	-
		Red/yellow	3LD9287-3C	•	•			
- "			3LD9247-3C				•	•
Coupling driv		door-coupling rotary operating mech						
	Version		Catalog No.					
The state of the s	With tolerance compensation		8UD1900-1GA00	-	•			
			8UD1900-2GA00			-	-	-
	Without tolerance compensation	on	8UD1900-1HA00	•				
			8UD1900-2HA00					

Other accessories					3LD52	3LD54	3LD56	3LD58
Terminal cov	/ers							
	 Pack of 4 units 							
	Number of poles		Catalog No.					
44	1-pole		3LD9251-2A					
			3LD9281-2A					
7			3LD9241-2A			•	•	•
	3-pole		3LD9251-0A	•				
Inscription la	abels							
MAN Surre	 Pack of 10 units 							
MAIN SWITCH HALPTSCHALTER	Inscription							
"	German / English (Hauptso	chalter / Main Switch)	3LD9286-1A					
	Without inscription		3LD9286-4A					
Switching sh	afts							
///	section	Length	Catalog No.					
	6 × 6 mm	300 mm	3LD9205-0C					
-		600 mm	3LD9205-2C		•			
	8 × 8 mm	300 mm	3LD9245-0C					
		600 mm	3LD9245-2C					

3LD2 Rotary Disconnect Switches in Non-Metallic Enclosures

Selection

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
- Available in both Type 12 and 4X non-metallic enclosures
- Listed and marked "suitable for use as motor disconnect" per NEC Section 430-109
- 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)
- HP rated
- 16–63A switches have factory installed ground bars.
- Switches are provided with knockouts
- Padlockable in OFF position with up to (3) padlocks
- Enclosures are constructed from Makrolon 9425.



	Catalog Number		Horsepov	ver Rating	ıs		
Amp		3 Pole, 3 Wire with (1) NO	Shipping	240V AC		480V AC	600V AC
Rating	3 Pole, 3 Wire	& (1) NC Aux. Contact ^⑤ ⑥	Weight ^①	1 Phase	3 Phase	3 Phase	3 Phase

Non-Fusible, Type 1, 4X & 12K[®] with Black Rotary Handle 600V AC Max.

16	3LD2064-0TB51-0US2	3LD2064-1GP51-0US2	1	11/2	3	71/2	10
25	3LD2164-0TB51-0US2	3LD2164-1GP51-0US2	1	3	71/2	10	15
30	3LD2264-0TB51-0US2	3LD2264-1GP51-0US2	1	3	7½	15	20
30	_	3LD2264-1TS51-0US2 ³ ▲	1	3	71/2	15	20
30	_	3LD2264-2TW51-0US2 [®] ▲	1	3	71/2	15	20
63	3LD2565-0TB51-0US2	3LD2565-1GP51-0US2▲	3	10	15	40	50
100	3LD2766-0TB51-0US2	3LD2766-1GP51-0US2▲	6	l	30	60	75
125	3LD2866-0TB51-0US2	3LD2866-1GP51-0US2▲	6	_	40	75	100

Non-Fusible, Type 1, 4X & 12K[®] with Red and Yellow Rotary Handle 600V AC Max.

16	3LD2064-0TB53-0US2	3LD2064-1GP53-0US2	1	1½	3	71/2	10
25	3LD2164-0TB53-0US2	3LD2164-1GP53-0US2	1	3	71/2	10	15
30	3LD2264-0TB53-0US2	3LD2264-1GP53-0US2	1	3	71/2	15	20
30	_	3LD2264-1TS53-0US2 ^③ ▲	1	3	71/2	15	20
30	_	3LD2264-2TW53-0US2 ^④ ▲	1	3	71/2	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

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

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

© Approved for indoor/outdoor use. No cover interlock provided.

Switch is supplied with (2) NO and no NC aux. contacts.
 Switch is supplied with (4) NO and no NC aux. contacts.
 Ground bar is not provided or available.

Aux. contacts break about 3 Ms before and make about 3 Ms after main switch contacts.
 6P, 25A, switch with 1 NO & 1 NC aux. contacts and a black

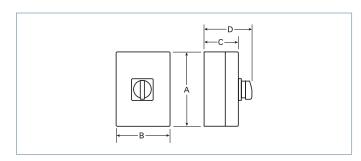
Enclosed Rotary Disconnect Switches

3LD2 Rotary Disconnect Switches in Non-Metallic Enclosures

Enclosed Disconnect Switch Dimensions (Inches)

Catalog	Ampere	Dimensions				
Number	Rating	Α	В	С	D	
3LD2064-	16	5.52 ³	3.94	3.19	4.57	
3LD2164-	25	5.523	3.94	3.19	4.57	
3LD2264-	30	5.523	3.94	3.19	4.57	
3LD2565-	63	6.93 ³	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	

Note: 3LD2 Type switches only have top and bottom end KOs 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[®]

	Short	Short Circuit Withstand Rating and Fuse Class							
	With Line S	ide Fusing		With Load Side Fusing					
Ampere Rating	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	RK5 (50A Max)		_	_					
25 & 30	RK5 (80A Max)	_	_	_	-				
63	RK5 (175A Max)	_	_	_	_				
100 & 125	_	RK5 (200A Max)	_	_	_				

Wire ranges 60/75°C Cu Only²

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

IEC Fuse and Withstand Ratings

Ampere Rating	gG Fuse Size	Short Circuit Rating
16	20A	5k Arms
25	25A	10k Arms
32	50A	10k Arms
63	63A	15k Arms
100	100A	20k Arms
125	125A	20k Arms

Accessories²

Switch Ampere Rating	Catalog Number	Description
16-30A	3LD9220-2C	Neutral Kit
63A	3LD9250-2CA	Neutral Kit
100-125A	3LD9280-2C	Neutral Kit

[©] For use as supplemental protection on the load side of the branch circuit over current

protective device.

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.

^{© 6.38} inches high including mounting feet.
© 7.85 inches high including mounting feet.
© 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.

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

Features

- 30-600A, 600VAC and DC ratings
- 240 & 600V AC switches are UL Recognized under file number E121152, Vol. 3 and CSA certified under file number 154852
- 600V DC Photovoltaic switches are UL Recognized under file number E335018, Vol. 3 and are rated to switch 3 separate 600V DC circuits
- Visible blade quick make and break switching action

- Panel and Flange mounted assemblies facilite installation
- Panel mounted switches are variable depth
- Short circuit rating of 10,000 AIC with class H fuse, and of 200,000 AIC with class R or J fuses. PV switches are rated 10,000 AIC at 600V DC with 600V DC rated class K, J or R fuses.
- Flange mounted handles rated as Type 1, 3R & 12 or 4X are padlockable in the off position with up to (3) padlocks with 5/16 hasps
- Meets UL98 requirements and suitable for both main and branch circuit appliactions
- A complete line of aux contacts are available
- Load break and horsepower rated
- Defeatable cover interlock standard with all handles
- Meets NFPA79 requirements
- Seismic qualified complies with the 2010 California Building Code (CBC) — and with the International Building Code (IBC) — Compliance Level SDS = 1.85 g



VBFS361, VBLK1 & VBH1



VBFS363F



VBNFS365, VBLK4 & VBH2

Ordering Information

- Determine the ratings required (amps, volts, HP, Fusible, NF), the mounting needed (Panel or Flange), and select the appropriate switch.
- 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.

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

Switches—for Standard 600V Max AC or DC Applications

0 11 1			Horsepower Rating, Switches and 3-Phase®				000		
Switch Ampere	Max. AC Voltage	Catalog	240 Volts	240 Volts AC		VC	600 Volts	AC	600 Volts DC
Rating	Rating	Number	Standard	Max.	Standard	Max.	Standard	Max.	(max)@
Fusible Pa	anel Mounte	ed Variable Depth Swit	ches - 3-Pol	e ⑤					1
30	240	VBFS321	3	7 1/2	_	_	_	_	_ 0
60	240	VBFS322	7 1/2	15		_	_	_	②
30	600	VBFS361	_	_	5	15	7 1/2	20	15 ③
60	600	VBFS362	_	_	15	30	15	50	30 ③
100	600	VBFS363	_	_	25	60	30	75	50 ③
200	600	VBFS364	_	_	50	125	60	150	50
400	600	VBFS365	_	_	100	250	125	350	<u> </u>
600	600	VBFS366	_	_	150	400	200	500	⑨
Non-fusib	Non-fusible Panel Mounted Variable Depth Switches - 3-Pole [®]								
30	600	VBNFS361	_	10	_	20	_	30	15 ③
60	600	VBNFS362	_	20	_	50	_	60	30 ③
100	600	VBNFS363	_	40		75	_	100	50 ③
200	600	VBNFS364	_	60		125	_	150	50
400	600	VBNFS365	_	125		250	_	300	_ 9
600	600	VBNFS366	_	200	_	400	_	500	— 9
Fusible Fl	ange Mount	ted Switches - 3-Pole®	10						
30	240	VBFS321F	3	7 1/2		_	_	_	<u> </u>
60	240	VBFS322F	7 1/2	15		_	_	_	②
30	600	VBFS361F	_	_	5	15	7 1/2	20	15 ③
60	600	VBFS362F	_	_	15	30	15	50	30 ③
100	600	VBFS363F	_	_	50	60	30	75	50 ③
200	600	VBFS364F	_	_	100	125	60	150	50
Non-fusib	le Flange M	ounted Switches – 3-P	ole®®						
30	600	VBNFS361F	_	10	-	20	-	30	15 ③
60	600	VBNFS362F	_	20	-	50	_	60	30 ③
100	600	VBNFS363F	_	40		75	_	100	50 ③
200	600	VBNFS364F	_	60	_	125	_	150	50

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

Switches—for Photovoltaic Applications, 600VDC Max.

(for use in negative ground systems only)

_	· · · · · · · · · · · · · · · · · · ·							
Switch Ampere Rating	Catalog Number	Rated Isc per NEC Article 690						
Fusible Pane	Fusible Panel Mounted Variable Depth Switches—3 Pole®							
30	VBFS361PV	19.2A						
60	VBFS362PV	38.4A						
100	VBFS363PV	64.0A						
Non-Fusible Panel Mounted Variable Depth Switches—3 Pole®								
30	VBNFS361PV	24.0A						
60	VBNFS362PV	48.0A						
100	VBNFS363PV	80.0A						
Fusible Flan	ge Mounted Variable Depth	Switches—3 Pole						
(Includes Ty	pe 1, 3R and 12 Rated Opera	ating Handle)᠖®						
30	VBFS361FPV	19.2A						
60	VBFS362FPV	38.4A						
100	VBFS363FPV	64.0A						
Non-Fusible	Flange Mounted Variable D	epth Switches—3 Pole						
(Includes Ty	pe 1, 3R and 12 Rated Opera	ating Handle)®						
30	VBNFS361FPV	24.0A						
60	VBNFS362FPV	48.0A						
100	VBNFS363FPV	80.0A						

- Rated 5 HP at 250V DC.
 Rated 10 HP at 250V DC.
 600V DC & 600V DC horsepower rating shown requires (2) poles to be connected.

- © 600V DC & 600V DC horsepower rating shown requires (2) poles to be connect in series.
 © 5td. applies when non-time delay fuses are used.
 Max. applies when time delay fuses are used.
 © Includes line base, load base, operating mechanism and line and load lugs.
 Order operating handle and linkage kits from tables on pages 5-47 or 5-48.
 © Includes line base, load base, operating mechanism line and load lugs plastic operating handle and required linkage.
 Ø All patropolitic switches are rated to be used with
- All photovoltaic switches are rated to be used with 3 separate 600V DC circuits.
- 3 separate 600V DC circuits.

 9 Fusible switches accept Class K or R fuses as standard and Class J fuses by relocating the load base.

 9 Rated 250V DC max and 50HP at 250V DC.

 9 Please add letter "M" to the end of catalog number for metal handle.

Cable Kit

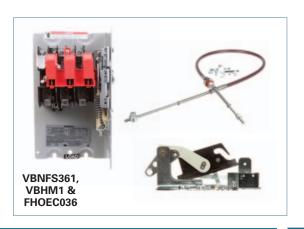
For use with 30-200A panel mounted switches and Max-Flex handle and adapter kit.

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

Max-Flex™ Handle and Adapter Kit

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

Catalog Number	Operating Handle Description		
Plastic Handles			
VBHM1	30-200A Type 1, 3R, 12 and 4X		
Metal Handles			
VBHM2	30-200A Type 1, 3R and 12		
VBHM2X	30-200A Type 4X		



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

Flange Mounted Operating Handles

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

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



Class R Fuse Clip Kits

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

Class R Fuse Clip Kits

Catalog Number	Description			
HR21	30A, 240V Kit (HD only)			
HR612	80A, 600V Kit/60A, 240V Kit			
HR62	60A, 600V Kit			
HR63	100A Kit			
HR64	200A Kit			
HR656	400A/600A Kit			

Internal Door Latch Kits

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

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

Rigid Linkage Kits

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

	Switch			
Catalog	Ampere	Enclosure Depth ^①		
Number	Rating	Min	Max.	
VBLK1	30-200	6.942	6.942	
VBLK2	30-200	6.94@	19.0	
VBLK3	400 & 600	9.00	8.75	
VBLK4	400 & 600	9.00	19.0	



Class T Fuse Adapter Kits

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

Class T Fuse Adapter Kits®

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

Class J Fuse Provisions

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

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

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

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

Quick Connects

They provide two point control power take-off capability and are normally used on two poles on the line side when it is required to have control power available when the switch is in the OFF position. They provide a mounting provision for standard ¼" quick connect terminal. Installed in the line or load side. 30A VBII switches have lugs UL listed to accept (2) wires per pole as standard so a 30A kit is not required.

Catalog Number	Description
HCQ62	60A 2 wire quick connect kit
HCQ63	100A 2 wire quick connect kit
HCQ64	200A 2 wire quick connect kit



Neutral Kits⁴

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

Neutral Kits

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

200% Neutral Kits⁴

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

200% Neutral Kits

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

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

① Dimensions (min. & max.) from enclosure mounting pan to outside surface of enclosure handle mounting flange.

^{2 7.12} for 200A switches.3 One kit per pole required.

⁴ UL approved (not CSA certified).

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











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

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		Kit Ampe	e Rating		Kit Horse	ower Ratir	ng
Ampere Rating	Aux. Switch Catalog Number	125V AC Max.	250V AC Max.	28V DC Max.	125V AC Max.	250V AC Max.	28V DC Max.
With 1 NO & 1 NC Isolated Contacts							

30-200	HA161234	10	10	_	1/2	3/4	_	
400-600	HA165678	10	10	_	1/2	3/4	_	

With 2 NO & 2 NC Isolated Contacts

30-200	HA261234	10	10	7	1/2	3/4	_
400-600	HA265678	10	10	7	1/2	3/4	_

Low Current PLC Type with 1 NO & 1 NC Gold Plated Contacts

30-200	HA361234	10	10	_	1/2	3/4	_
400-600	HA365678	10	10	_	1/2	3/4	_

Fuse Puller Kits

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

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

Copper Lug Kits

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

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

Equipment Ground Kits

Equipment Ground Lug Kits are available for all switches.

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

NEW Internal Shield Kits (for fusible switches)

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

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

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.

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

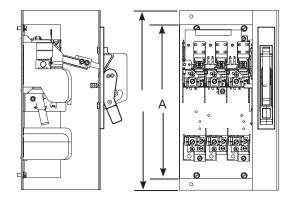
Wire Ranges (Line, Load and Standard Neutral)

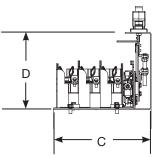
Switch Ampere Rating	UL Approved Wire Range	Lug Wire Range
30	#14-6 AWG (Cu/AI)	#14-2 AWG (Cu/AI)
60	#14-2 AWG (Cu/AI)	#14-2 AWG (Cu/Al)
100	#14-1/0 AWG (Cu/AI)	#14-1/0 AWG (Cu/AI)
200	#6 AWG-300 Kcmil (Cu/Al)	#6 AWG-300 Kcmil (Cu/Al)
400	1/0 AWG-750 Kcmil (Cu/Al) or (2) 1/0 AWG-250 Kcmil (Cu/Al)	(1)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

	Dimens	ions						
Catalog Number	Α	В	C ①	D (min)	D (max)			
Fusible, Panel Mounted								
VBFS321	11.88	N/A	7.47	6.94	19			
VBFS322	13.12	N/A	8.50	6.94	19			
VBFS361, VBFS361PV	11.88	N/A	7.47	6.94	19			
VBFS362, VBFS362PV	13.12	N/A	8.50	6.94	19			
VBFS363, VBFS363PV	13.12	N/A	8.50	6.94	19			
VBFS364	17	N/A	12.33	7.12	19			
VBFS365	26.25	N/A	16.50	8.63	19			
VBFS366	26.25	N/A	16.50	8.63	19			
Non-fusible, Panel Mounted								
VBNFS361, VBNFS361PV	9.79	N/A	7.47	6.94	19			
VBNFS362, VBNFS362PV	9.79	N/A	8.50	6.94	19			
VBNFS363, VBNFS363PV	9.79	N/A	8.50	6.94	19			
VBNFS364	10.77	N/A	12.33	7.12	19			
VBNFS365	13	N/A	16.50	8.63	19			
VBNFS366	13	N/A	16.50	8.63	19			
Fusible, Flange Mounted								
VBFS321F	11.88	14.08	7.47	7.27	N/A			
VBFS322F	13.12	15.83	8.85	7.27	N/A			
VBFS361F, VBFS361FPV	11.88	14.08	7.47	7.27	N/A			
VBFS362F, VBFS362FPV	13.12	15.83	8.85	7.27	N/A			
VBFS363F, VBFS363FPV	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, VBNFS361FPV	9.79	11.78	7.47	7.27	N/A			
VBNFS362F, VBNFS362FPV	9.79	11.78	8.85	7.27	N/A			
VBNFS363F, VBNFS363FPV	9.79	11.78	8.85	7.27	N/A			
VBNFS364F	10.77	11.97	12.68	7.57	N/A			





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

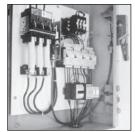
Selection

Disconnect Switches

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

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



Type MCS Disconnect Switch with Max-Flex[™] handle operator

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 our application. "L" or "R" suffix on

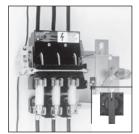
- Compact Size
- Visible Blade Contacts
- Rugged Construction with a short circuit current rating of 10,000 amps with Class H or 200,000 amps at 600V maximum AC, when fused with Class R or Class J fuses



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

- 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

- 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 rotary handle

- 5-52 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

				Maximum Horsepower Rating, 3 Phase [®]							
		Catalog	Catalog	240 Volts A	C	480 Volts A	C	600 Volts A	C	250	
Switch Ampere Rating	Maximum Voltage Rating	Number Right Hand	Number Left Hand	Standard Fuse	Time Delay Fuse	Standard Fuse	Time Delay Fuse	Standard Fuse	Time Delay Fuse	Volts DC (max)	
30	600	MCS603R	MCS603L	3	7½	5	15	7½	20	5	
60	600	MCS606R	MCS606L	7½	15	15	30	15	50	10	
100	600	MCS610R	MCS610L▲	15	30	25	60	30	75	20	
200	600	MCS620R	MCS620L▲	25	60	50	125	60	150	40	

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

Basic			No Fuse Kits	·	For Class H	For Class J	For Class R	
Switch Ampere	Switch Catalog	Kit	Standard	Cu Only ²	Catalog	Catalog	Catalog	Lug Wire
Rating	Number	Description	Catalog Number	Catalog Number	Number ①	Number ①	Number ①	Size
		No Fuse	TMK606	_	_	<u> </u>	_	
	MCS603R	30A, 250V	_	_	FCK203▲	-	FCRK203	#14 to
30	or	30A, 600V	_	_	FCK206	FCJK603	FCRK206	#4 AWG
	MCS603L	60A, 250V	_	_	FCK206	_	FCRK206	Cu/Al
		60A, 600V	_	_	FCK606	FCJK606	FCRK606	
		No Fuse	TMK606	_	_	<u> </u>	_	
	MCS606R	60A, 250V	_	_	FCK206	-	FCRK206	#14 to
60	or MCS606L	60A, 600V	_	_	FCK606	FCJK606	FCRK606	#4 AWG
		100A, 250V	_	_	OFCK661▲	OFCK661▲	3	Cu/AI
		100A, 600V	_	_	OFCK661▲	OFCK661▲	3	
		No Fuse	TMK610	TMK610C	_	T-	_	
	MCS610R	100A, 250V	_	_	FCK610	FCK610	3	#14 to
100	or	100A, 600V	_	_	FCK610	FCK610	3	#2/0 AWG
	MCS610L	200A, 250V	_	_	OFCK620	OFCK620	3	Cu/AI
		200A, 600V	_	_	OFCK620	OFCK620	3	
	MCS620R	No Fuse	TMK620	TMK620C▲	1-	1-	_	#6 to
200	or	200A, 250V	_	-	FCK620	FCK620	3	300 kcmil
	MCS620L	200A, 600V	_	_	FCK620	FCK620	3	Cu/AI

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

○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 2 Includes both line and load lugs.

For Class R fuses order Class H kit from this table and the Class R conversion kit from the next page.
 HP ratings for time delay fuses and for 250V DC also apply to Non-fusible switches.

Auxiliary Switch Kits

	Contact Arrangemen	nt
Switch Catalog Number	1 NO/1 NC Catalog Number	2 NO/2 NC Catalog Number
MCS603R	MCSAKR136	MCSAKR236
MCS603L	MCSAKL136	MCSAKL236▲
MCS606R	MCSAKR136	MCSAKR236
MCS606L	MCSAKL136	MCSAKL236▲
MCS610R	MCSAK116	MCSAK216
MCS610L	MCSAK116	MCSAK216
MCS620R	MCSAK126	MCSAK226
MCS620L	MCSAK126	MCSAK226

Class R Fuse Conversion Kits

Fuse Clip Rating	Catalog Number
100A, 600V	SSRK33
200A, 600V	SSRK34

Fuse Ejector Kits

Switch Catalog Number	Fuse Ejector Kit Catalog Number
MCS610	FE100▲
MCS620	FE200▲

Handle Operators

Fixed Depth, Flange Mounted, Types 1, 3, 3R, 1200

Switch	Complete Handle Mechanism	Handle Only	Switch Operator Only
Catalog Number	Catalog Number	Catalog Number	Catalog Number
MCS603R	FDFS06R	FDH10	FDS06R
MCS603L	FDFS06L	FDH10	FDS06L
MCS606R	FDFS06R	FDH10	FDS06R
MCS606L	FDFS06L	FDH10	FDS06L
MCS610R	FDFS06R	FDH10	FDS06R
MCS610L	FDFS06L	FDH10	FDS06L
MCS620R	FDFS20R	FDH20	FDS20R
MCS620L	FDFS20L	FDH20	FDS20L

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

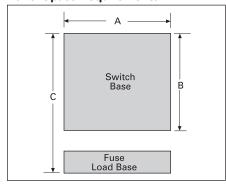
Tantanio 2 optin,	- a				
Switch	Complete Handle Mechanism	Handle Only	Switch Operator Only	Cable Only®	
Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	
MCS603R	FHOS06036R	FHOHS	FHOS06R	FHOEC036	
MCS603L	FHOS06036L	FHOHS	FHOS06L	FHOEC036	
MCS606R	FHOS06036R	FHOHS	FHOS06R	FHOEC036	
MCS606L	FHOS06036L	FHOHS	FHOS06L	FHOEC036	
MCS610R	FHOS06036R	FHOHS	FHOS06R	FHOEC036	
MCS610L	FHOS06036L	FHOHS	FHOS06L	FHOEC036	
MCS620R	FHOS20036R	FHOHS	FHOS20R	FHOJC036	
MCS620L	FHOS20036L	FHOHS	FHOS20L	FHOJC036	

Variable Depth Rotary, Through-The-Door-Mounted, Types 1, 1243

Variable Depth	Shaft Only Variable Depth			
MCS603R	CRHOS06VD	СКНОН	RHOS06	RHOSVD
MCS606R	CRHOS06VD	СКНОН	RHOS06	RHOSVD
MCS610R	CRHOS06VD	СКНОН	RHOS06	RHOSVD
MCS620R	CRHOS20VD	RHOH	RHOS20	RHOSVD

MCS Disconnect Switch Panel Space Requirements

Panel Space Requirements



Minimum Dimensions (inches*)

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

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

Length	Amps	Cat. No.	
48"	30-100	FHOEC048	
60"	30-100	FHOEC060	
48"	200	FHOJC048	
60"	200	FHOJC060	

For Type 4 and 4X applications, order handle only Catalog Number RHOH4
 For Type 3 and 3R applications, order handle only

[▲] Built to order. Allow 6–8 weeks for delivery. ①For Type 4 and 4X applications, order handle only Catalog Number

¹⁰⁰A - FDH104 200A - FDH204 ②For Type 4 and 4X applications, order handle only Catalog Number FHOHS4

Catalog Number RHOH

Min. 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.

Type CFS Switches, Shafts and Handles

General Information

Type CFS Compact Fusible Switches

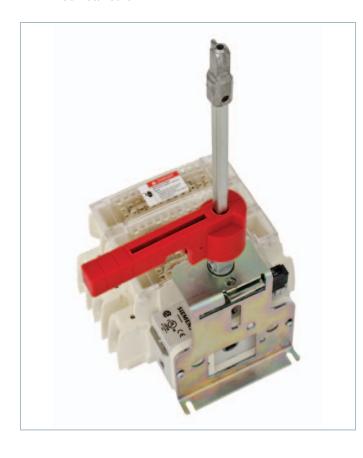
Description

Siemens Type CFS compact fusible switches meet UL 98 requirements and can be used in either service entrance or branch circuit applications. 30-800A, 3 pole switches are offered and are all rated 600V AC maximum. 30A switches are available with provisions for either Class CC or J fuses. 60A and larger switches provided with Class J fuse provisions can be used in non-fusible applications with field installable no-fuse kits.

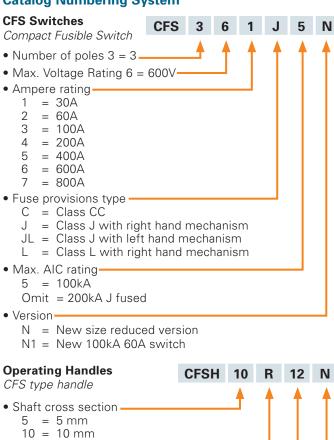
All are open style, designed to be panel mounted and are UL listed under file number #E121152 or #E68312 and CSA certified under file number #222227. A variety of door mounted rotary operators are available with Type 1, 3R, 12 or 4/4X ratings.

NFPA79 Kits

CFSNFPA1 AND CFSNFPA2N kits provide an internal handle and padlocking means to comply with article 5.3.4.2 of the NFPA-2002 standard.



Catalog Numbering System



R = Red & yellow, short
BL = Black & blue, long
RL = Red & yellow, long

NEMA type
12 = 1, 3R and 12
4 = 1, 3R, 12 and 4/4X

• Version-

N = New version

12 = 12 mm
• Handle color and length —
B = Black & blue, short



Features and Ordering Information

Features

- 30 800A ratings
- UL Listed under file #E121152 & CSA Certified under file #222227
- Door mounted rotary handles with defeatable cover interlock
- Meets UL requirements for both main and branch circuit applications
- Compact size
- 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 numbers CFS361C5 & CFS361J5 can be DIN-rail mounted and can be either front or side operated with standard rotary handles...
- All CFS part numbers ending in N 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
- 30-400A, 200kA switches are provided with quick connect terminal provisions for voltage sensing or for 10A max. control circuits









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 100kA switches can be used in 10" deep enclosures (panel to inside of door) with 200mm shaft and CFSH5N handles.

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

- 4. Line & load lugs are provided as standard on 30-100A switches. Terminal kits are available for 200-800A switches if needed.
- 5. Auxiliary contact are available if needed as follows. 30A 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. All other switches will accept up to (4) aux contacts.
- 6. 30-100A switches are designed to prevent inadvertent contact with live parts and shields are not required. 200 & 400A switches are not supplied with terminal shields. They are available as field installed kits for both line and load terminals. 400-800A switches are supplied as standard with line shields and terminal shroud kits are available for the load side.

Type CFS Compact Fusible Switches

Fusible switches, 3-pole 600V AC Max. 30-100A & 600-800A switches are also rated 250V DC Max when poles are field connected in series[®]

Switch		Fuse	Max Hors	sepower Ra	atings		AC Short
Ampere Rating	Catalog Number	Provisions Provided	240V 3Ø AC	480V 3Ø AC	600V 3Ø AC	250V DC	Circuit Rating
Standard	Standard – With Right Hand Mounted Mechanism						
30 ^① 30 ^① 30 ^①	CFS361C5 CFS361J5 CFS361JN	Class CC Class J Class J	7.5 7.5 7.5	15 15 15	20 20 20	5 ³ 5 ³ 5 ³	100kA 100kA 200kA
60 ①	CFS362JN1	Class J	15	30	50	10 ³	100kA
60 ^① 100 ^① 200 ^② 400 ^② 600 ^②	CFS362JN CFS363JN CFS364JN ⁴ CFS365JN ⁴ CFS366J ⁸⁹	Class J	15 30 60 125 200	30 60 125 250 400	50 75 150 350 500	10 ³ 20 ³ — —	200kA
800②	CFS367L ^{®®}	Class L	200	400	500	_	200kA



60 [©] CFS362JLN 15 30 50 10 [®] 100 [©] CFS363JLN 30 60 75 20 [®]	30 ^①	CFS361JLN	Class J	7.5	15	20	5 ³	200kA
100 [©] CFS363JLN 30 60 75 20 [®]	60 ^①	CFS362JLN		15	30	50	10 ^③	
	100 ^①	CFS363JLN		30	60	75	20 ³	

Operating Shafts for 30-400A Switches®

Catalog number	Shaft length in. (mm)	Switch & handle compatibility	
CFSS5200N	7.9 (200)	5mm x 5mm for use with CFS361C5 & CFS361J5 switches &	
CFSS5400N	15.7 (400)	with "CFSH5" handles only	
CFSS5200HN	7.9 (200)	5mm x 5mm for use with all "CFSH10" handles & with	
CFSS5400HN	15.7 (400)	CFS361C5 & CFS361J5 switches only	
CFSS10200HN	7.9 (200)	10mm x 10mm for use with all "CFSH10" handles & with all	
CFSS10400HN	15.7 (400)	30-400A switches except CFS361C5 & CFS361J5	

Compact rotary operating handles — door mounted (for use with CFS361C5 & CFS361J5 switches only)[®]

Catalog number	Color	UL Type	Operating shaft compatibility
CFSH5B12N CFSH5R12N	Blue & Black Yellow & Red	1, 3R & 12	CFSS5200N or CFSS5400N
CFSH5B4N CFSH5R4N	Blue & Black Yellow & Red	1, 3R, 12 & 4/4X	CF335200IN 01 CF335400IN

Rotary Operating Handles - Door Mounted (for use with CFSS5200HN, CFSS5400HN, CFSS10200HN & CFSS10400HN)

Catalog number	Color	Description	
Type 1, 3R & 12	(T)		
CFSH10B12N	Blue & Black	Heavy duty pistol grip (2.75" long for use	
CFSH10R12N	Yellow & Red	with 30A switches & CFS362JN1)	
CFSH10BL12N	Blue & Black	Heavy duty pistol grip	
CFSH10RL12N	Yellow & Red	(4.92" long for 30-400A switches)	
T 4 2D 4/4	V 9 40 ⁷		

Type 1, 3R, 4/4X & 12[♡]

CFSH10B4N	Blue & Black	Heavy duty pistol grip (2.75" long for use
CFSH10R4N	Yellow & Red	with 30A switches & CFS362JN1)
CFSH10BL4N	Blue & Black	Heavy duty pistol grip
CFSH10RL4N	Yellow & Red	(4.92" long for 30-400A switches)







① Line and load lugs included.

② Line and load lugs are not included.

Order from table on next page if required.

3 DC HP rating shown requires (3) poles to be connected in series.

⁽a) CFS364JN & CFS365JN can be rotated 180° for left hand operation as standard.

[©] Catalog numbers CFS361C5 & CFS361J5 accept 5mm x 5mm operating shafts. All other 30-400A switches accept 10mm x 10mm operating shafts.

 [©] Compact pistol grip design (2.75" long) with defeatable cover interlock. Cover can be opened when handle is padlocked in the OFF position.

② Defeatable cover interlock provided. Cover cannot be opened when handle is padlocked in the OFF position.

^{® 4} pole 600 & 800A switches, CFS466J & CFS467L are also available.

[®] CFS366J and CFS367L are rated 250 & 600V DC when (2) poles are connected in series.

Type CFS Compact Fusible Switches

Selection and Accessories

600 & 800A Rotary Operating Handles - Door Mounted (8.27" long)

Catalog number	Color	UL Type
CFSH12BL12	Blue & Black	1, 3R & 12
CFSH12RL12	Yellow & Red	1, 3R & 12
CFSH12BL4	Blue & Black	1, 3R, 12 & 4/4X
CFSH12RL4	Yellow & Red	1, 3R, 12 & 4/4X

600 & 800A Operating Shafts (Cross Section 12mm x 12mm)

Catalog number	Shaft length in. (mm)	Enclosure depth (switch mounting surface to door OD)
CFSS12200H	12.59 (320)	10.43 – 16.68 in.
CFSS12400H	15.75 (400)	10.43 – 19.84 in.

Type CFS Fusible Switch Accessories

Type CF3 Fusible	ype CF3 rusible Switch Accessories				
Catalog number	Description				
Terminals ^①					
CFSL200	200A lug kit (6 lugs per kit) #6-3/0				
CFSL400N	400A lug kit (6 lugs per kit) #2-600kcmil (for CFS365JN only)				
CNFSL400D	400A lug kit (6 lugs per kit, 2 wires per lug) #6-350kcmil				
CFSL400	600-800A lug kit (6 lugs per kit, 2 wires per lug) #2-600kcmil®				
Shorting bars (no fuse kits)					

CFSSB60	60A shorting bar kit (3 links per kit)			
CFSSB100	100A shorting bar kit (3 links per kit)			
CFSSB200	200A shorting bar kit (3 links per kit)			
CFSSB400	400A shorting bar kit (3 links per kit)			
CFSSB680	600 & 800A shorting bar kit (1 link per kit)			

Auxiliary contacts (NEMA ratings AC A600 DC N600)

CFSAUXH1 ²	Aux contact holder (CFS361C5 & CFS361J5)
CFSAUX1NO	Aux contact 1 NO (30-800A Sws)
CFSAUX1NC	Aux contact 1 NC (30-800A Sws)
CFS11AUX	1NO, 1NC aux contact kit (side mount for 200kA switches)
CFS22AUX	2NO, 2NC aux contact kit (side mount for 200kA switches)

Terminal shrouds (line or load)

CFSTS200N [®]	200A shroud kit (line or load 3-pole kit)				
CFSTS400N [®]	400A shroud kit (line or load 3-pole kit for CFS365JN only)				
CFSTS680 [®]	600/800A 3-pole shroud kit				
CFSTS6804 [©]	600/800A 4-pole shroud kit				

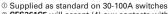
30A compact switch kits

CFSPLK	Shaft padlocking kit for 30A compact switch when door is opend			
CFSH5CDM Direct mount handle kit for CFS361C5				
CFSH5JDM	Direct mount handle kit for CFS361J5			

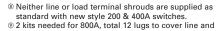
NFPA 79 kits (if auxiliary contacts are needed, see table above)

Kits provide an operating shaft suitable for use with all heavy duty handles (not for use with CFSH5 handles). Kits also provide an internal operating handle and an internal OFF padlocking provision.

'	
CFSNFPA1 [®]	For use with CFS361C5 & CFS361J5
CFSNFPA2N ^⑤	For use with CFS361JN, CFS361CN, CFS362JN1, CFS362JN, CFS363JN & CFS364JN
CFSNFPA3N ^⑤	For use with CFS365JN only



② CFS361C5 will accept (4) aux contacts without an aux contact holder. CFS361J5 will accept (2) aux contacts without an aux contact holder.



load sides







³ Supplied as standard on all but 30A, 100kA compact switches.

^{@ 12.6} in. (320 mm) long operating shaft included (§ 12.7 in. (323 mm) long operating shaft included

[®] Line side terminal shrouds supplied with switch

② Defeatable cover interlock included. Cover cannot be opened when the handle is padlocked in the OFF position.

Type CFS Compact Fusible Switches

Technical Characteristics

UL & CSA Technical Characteristics And Panel Space Requirements

		Fuse	Ac Short	Electrical	Mechanical	Panel Space Requirements - in. (mm)		
Catalog Number	Amps	Class	Circuit Rating	Endurance	Endurance	Height	Width	Depth ^①
CFS361C5	30	СС	100kA	6000	10000	4.56 (116)	3.78 (96)	6.00 (152)
CFS361J5	30	J	100kA	6000	10000	4.56 (116)	4.15 (105)	6.00 (152)
CFS361JN	30	J	200kA	6000	10000	5.35 (136)	5.89 (150)	6.00 (152)
CFS361JLN	30	J	200kA	6000	10000	5.35 (136)	5.89 (150)	6.00 (152)
CFS362JN1	60	J	100kA	6000	10000	5.35 (136)	5.89 (150)	6.00 (152)
CFS362JN	60	J	200kA	6000	10000	7.32 (186)	5.89 (150)	6.00 (152)
CFS362JLN	60	J	200kA	6000	10000	7.32 (186)	5.89 (150)	6.00 (152)
CFS363JN	100	J	200kA	6000	10000	7.32 (186)	5.89 (150)	6.00 (152)
CFS363JLN	100	J	200kA	6000	10000	7.32 (186)	5.89 (150)	6.00 (152)
CFS364JN	200	J	200kA	6000	8000	11.46 (291)	7.72 (196)	6.00 (152)
CFS365JN	400	J	200kA	1000	6000	15.35 (390)	10.19 (259)	8.00 (203)
CFS366J	600	J	200kA	1000	5000	11.81 (300)	14.33 (364)	11.00 (280)
CFS466J	600	J	200kA	1000	5000	11.81 (300)	18.03 (458)	11.00 (280)
CFS367L	800	L	200kA	500	3500	11.81 (300)	14.33 (364)	11.00 (280)
CFS467L	800	L	200kA	500	3500	11.81 (300)	18.03 (458)	11.00 (280)

Wire Ranges Line & Load Lugs

Switch	Amperage Rating	UL Approved Wire Size (75° C)
CFS361J5	30	(1)#14-10
CFS361C5	30	(1)#14-10
CFS361JN	30	(1)#14-6
CFS362JN1	60	(1)#14-6
CFS362JN	60	(1)#12-1
CFS363JN	100	(1)#12-1
CFS364JN	200	(1)#3/0
CFS365JN	400	(1)600MCM
CFS366J	600	(2)350 MCM
CFS367L	800	(2)600 MCM

Auxiliary Contact Capability When An NFPA79 Kit Is Used

Switch	NFPA79 Kit	Aux Contacts That Can Be Installed		
CFS361C5	CFSNFPA1	(2) Total, CFSAUX1NO or CFSAUX1NC		
CFS361J5	CFSINFPAT	(1) CFSAUX1NO or (1) CFSAUX1NC		
CFS361JN				
CFS362JN1	CFSNFPA2N	(2) Total, CFSAUX1NO or CFSAUX1NC [®]		
CFS362JN				
CFS363JN				
CFS364JN				
CFS365JN	CFSNFPA3N	(2) Total, CFSAUX1NO or CFSAUX1NC ²		

① Minimum dimensions from mounting surface to inside of cover. Dimensions shown can be decreased if aux contacts are not required.

② For additional auxiliary contacts use side mounted CFS11AUX or CFS22AUX.

Type CNFS Switches, Shafts And Handles

General Information

Type CNFS Compact Non-Fusible Switches

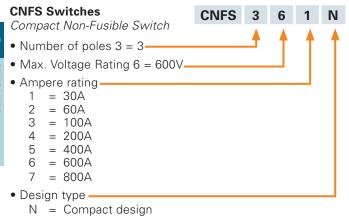
Description

Siemens Type CNFS compact non-fusible switches meet UL 98 requirements and can be used in either service entrance or branch circuit applications. They are available in 30-800A, 3-pole switches and are all rated 600VAC maximum.

All are open style, designed to be panel mounted and are UL listed under file number #E121152 or #E68312 and CSA certified under file number #222227. A variety of door mounted rotary operators are available with Type 1, 3R, 12 or 4/4X ratings.

These non-fusible switches are UL listed under file #E201138 and CSA certified under file #112964. They also conform to IEC standard 60947-3.

Catalog Numbering System





LG

DISCONNECT

Type CNFS Compact Non-Fusible Switches

Features And Ordering Information

Features

- 30 800A ratings
- UL Listed under file #E201138 & CSA Certified under file #112964 or #703166
- Options to have door mounted pistol handles with defeatable cover interlock or direct mounted handles.
- Meets UL 98 requirements
- Compact size
- All short circuit protection ratings require the use of Class J fuses in the circuit.
- Load break and horsepower rated

- Quick make and break operation
- All external handles and direct handles for 600-800A switches are padlockable with up to (3) padlocks with 5/16" hasps in the OFF postition. Direct handles for 30-100A switches are padlockable with (1) padlock with 3/16" hasps in the OFF position.
- All switches are able to be panel mounted. Catalog numbers CNFS361N, CNFS362N, & CNFS363N can also be DIN-rail mounted and can either be front or side operated with standard pistol handles.
- Handles are available in Type 1, 3R, 4/4X & 12 ratings







Ordering information

- Select the panel mounted switch required based on Ampere, HP and AIC requirements. Switches with a right hand mechanism are standard.
- 2. Select handle based on environmental rating required.
- 3. For door mounted handles, select operating shaft based on enclosure depth. For enclosure depths of 9.00" or less from panel mounting surface to inside of door use up to 200 mm long shafts. From 9.00" to 13.00" use up to 320 mm long shafts. For deeper enclosures use up to 400 mm long shafts. For direct mount handles, no shaft is needed.

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

- Line & load lugs are provided as standard on 30-100A switches. Terminal kits are available for 200-800A switches if needed.
- Auxiliary contacts are available if needed. Each switch will accept up to (2) aux contact modules, containing (2) contacts in each.
- 6. 30-100A Series N switches are designed to prevent inadvertent contact with live parts and shields are not required but are offered as terminal shrouds. 100-400A switches are not supplied with terminal shields. They are available as separate field installed kits for both line and load terminals by amperage rating. Line side terminal screens are provided for 600-800A switches.

Type CNFS Compact Non-Fusible Switches

Type CNFS compact non-fusible switches

Switch		Max Hors	epower Ra	tings		
Ampere	Catalog	240V	480V	600V	Short Circuit Rating	
Rating	Number	3Ø AC	3Ø AC	3Ø AC	@ 480VAC	@ 600VAC
30	CNFS361N ^①	10	20	25	100	100
60	CNFS362N ^①	20	40	50	100	100
100	CNFS363N ^①	20	50	50	100	25
200	CNFS364N ²	75	150	200	200	200
400	CNFS365N ²	125	250	350	200	200
600	CNFS366N ²	200	400	350	200	200
800	CNFS367N ²	200	500	500	100	100



Direct mount rotary handles for compact non-fusible switches

Catalog Number Color		Use with compact non-fusible switches
CNFSHD1	Blue	CNFS361N, CNFS362N, CNFS363N
CNFSHD2	Black	CNFS364N, CNFS365N
CNFSHD3	Black	CNFS366N, CNFS367N



Operating shafts for compact non-fusible switches

Catalog Number	Shaft length in. (mm)	Switch and handle compatibility		
CNFSS52001	7.9 (200)	5mm x 5mm for use with		
CNFSS53201	12.6 (320)	CNFS361N, CNFS362N and CNFS363N switches		
CNFSS54001	15.7 (400)	and with "CNFSH5" handles only		
CFSS10200HN	7.9 (200)	10mm x 10mm for use with		
CNFSS103202	12.6 (320)	"CFSH10" handles and with CNFS364N		
CFSS10400HN	15.7 (400)	and CNFS365N switches only		
CNFSS152003	7.9 (200)	- 15mm x 15mm for use with		
CNFSS153203	12.6 (320)	"CFSH12" handles and with CNFS366N		
CNFSS154003	15.7 (400)	and CNFS367N switches only		



Compact rotary operating handles for non-fusible switches - door mounted

Catalog Number	Color	UL Type	Operating shaft compatibility	Use with non-fusible compact switches	
CNFSH5BP121	Black	NEMA 1, 3R, 12			
CNFSH5RP121	Red/Yellow	NEMA 1, 3R, 12	CNFSS52001, CNFSS53201,	CNFS361N, CNFS362N, CNFS363N	
CNFSH5BP41	Black	NEMA 4/4X	CNFSS54001		
CNFSH5RP41	Red/Yellow	NEMA 4/4X			
CFSH10BL12N	Black	NEMA 1, 3R, 12			
CFSH10RL12N	Red/Yellow	NEMA 1, 3R, 12	CFSS10200HN, CNFSS103202.	CNFS364N,	
CFSH10BL4N	Black	NEMA 4/4X	CFSS103202, CFSS10400HN	CNFS365N	
CFSH10RL4N	Red/Yellow	NEMA 4/4X			
CFSH12BL12	Black	NEMA 1, 3R, 12			
CFSH12RL12	Red/Yellow	NEMA 1, 3R, 12	CNFSS152003,	CNFS366N,	
CFSH12BL4	Black	NEMA 4/4X	CNFSS153203, CNFSS154003	CNFS367N	
CFSH12RL4	Red/Yellow	NEMA 4/4X			

① Line and load lugs are included.

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② Line and load lugs are not included. Order from table on following pages if needed.

³ All switches can be rotated 180° for left hand operation

as statutati.
© Compact pistol grip design (2.75" long) with defeatable cover interlock. Cover can be opened when handle is padlocked in the OFF position.

[®] Defeatable cover interlock provided. Cover cannot be

opened when handle is in the OFF position.

⑤ Flange mounting is not available for non-fusible

Type CNFS Compact Non-Fusible Switches

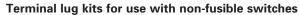
Additional Accessories

Auxiliary contacts for use with non-fusible switches

Catalog Number	Number of Contacts	Use with Non-fusible Contact Switches	
CNFS1AUX1	1 Normally Open + 1 Normally Closed	CNFS361N, CNFS362N, CNFS363N	
CNFS2AUX1	2 Normally Closed	CIVI 330 IIV, CIVI 3302IV, CIVF3303IV	
CNFS1AUX2	1st Auxiliary Contact: 1 Normally Open + 1 Normally Closed	CNFS364N, CNFS365N, CNFS366N,	
CNFS2AUX2	2nd Auxiliary Contact: 1 Normally Open + 1 Normally Closed	CNFS367N	

Terminal shrouds for use with non-fusible switches

Catalog Number	Shroud Location	Use with Non-fusible Contact Switches		
CNFSTS100	Top and Bottom	CNFS361N, CNFS362N, CNFS363N		
CNFSTSC200T	Тор	CNFS364N		
CNFSTSC200B	Bottom	CINF5304IN		
CNFSTSC400T	Тор	CNFS365N		
CNFSTSC400B	Bottom	CINESSOSIN		
CNFSTSC600B	Bottom	CNFS366N		
CNFSTSC800B	Bottom	CNFS367N		



Catalog Number	Wire Sizes	Use with Non-fusible Contact Switches
Included	#10-2/0	CNFS361N, CNFS362N, CNFS363N
CFSL200	#6-300MCM	CNFS364N
CFSL400N	#2-600MCM	CNFS365N
CNFSL400D	#6-350MCM, 2 wires per lug	CNFS356N
CFSL400	#6-350MCM, 2 wires per lug	CNFS366N, CNFS367N ^①



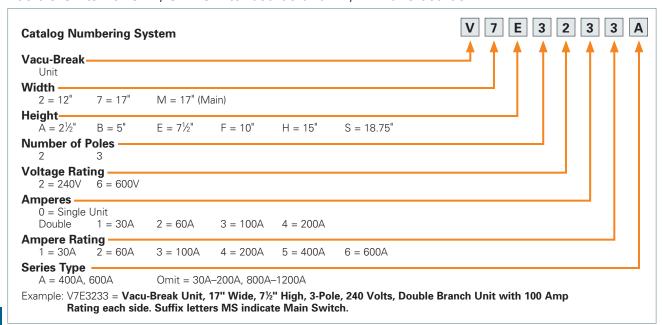




 $[\]ensuremath{\mathbb{O}}$ 2 kits needed for 800A, total 12 lugs to cover line and load sides.

Type VB Panelboard Units Selection

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



Vacu-Break® Fusible Units

2-Pole^①, 12" Wide 240V AC, 250V DC

Horsepower Rating

	11-24	11-24	Horsepower Rating			11-24		
Ampere	Unit Height	Unit Depth	240 Volt AC	;	250 Volt	Unit Lug Wire Range (Cu/Al)	Weight	Catalog
Rating	(inches)	(inches)	Standard	Maximum	DC	and Cables Per Pole	(pounds)	Number
30–30	2½②	4½	1½	3	5	(1)-#14 to #8 (Cu Only)	5	V2A2211LR■
30–30	5	4½	1½	3	5	(1)-#14 to #4	9	V2B2211LR■
30–60	5	4½	1½-3	3–10	5–10	(1)-#14 to #2	9	V2B2212LR■
60–60	5	4½	3	10	10	(1)-#14 to #2	9	V2B2222LR■
100	7½	6¾	7½	15	20	(1)-#14 to #1/0	14	V2E2203LR■
200	7½	6¾	15	_	40	(1)-#6 to 350 kcmil	19	V2E2204LR■

3-Pole 240V AC, 250V DC

	1.1	1.1			11		
Ampere	Unit Height	Unit Depth	240 Volt AC		Unit Lug Wire Range (Cu/Al)	Weight	Catalog
Rating	(inches)	(inches)	Standard	Maximum	and Cables Per Pole	(pounds)	Number
Branch Cir	cuits, 12" \	Wide Units					
30–30	2½②	41/2	3	7½	(1)-#14 to #8 (Cu Only)	5	V2A3211■
30–30	5	4½	3	7½	(1)-#14 to #4	9	V2B3211■
30–30	5	4½	3	7½	(1)-#14 to #4	9	V2B3211R③■
30–60	5	4½	3–7½	7½–15	(1)-#14 to #2	9	V2B3212■
30–60	5	4½	3–7½	7½–15	(1)-#14 to #2	9	V2B3212R ^③ ■
60–60	5	4½	7½	15	(1)-#14 to #2	9	V2B3222
60–60	5	4½	7½	15	(1)-#14 to #2	9	V2B3222R ^③ ■
100	7½	6¾	15	30	(1)-#14 to #1/0	14	V2E3203
200	10	6¾	25	60	(1)-#6 to 350 kcmil	21	V2F3204

Main Switch[®], 12" Wide Units, Back Connected

200 10 074 23 30 0 21 V21 3204IVIS	200	10	63/4	25	50	(5)	21	V2F3204MS■
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For inches / millimeters conversion, multiply inches by 25.4.

- Built to order. Allow 4–6 weeks for delivery.
- These units are available in LR (left, right) connection figurations only.
- 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 clin kits
- 3 Units set up for R-fuse application only.
- For 2-pole main switch (200A), use 3-pole main switch Vacu-Break unit.
- S Load-side furnished with spade type bolted terminal pads.

Type VB Panel Units Selection

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

	11	1124	Horsepowe	r Rating			11				
Ampere	Unit Height	Unit Depth	240 Volt AC	;	250 Volt	Lug Wire Range (Cu/Al)	Unit Weight	Catalog			
Rating	(inches)	(inches)	Standard	Maximum	DC	and Cables Per Pole	(pounds)	Number			
2-Pole ^① , B	2-Pole ^① , Branch Circuits, 17" Wide Units										
30–30	2½②	6¾	1½	3	5	(1)-#14 to #8 (Cu Only)	5	V7A2211①③■			
30–30	5	6¾	1½	3	5	(1)-#14 to #4	9	V7B2211LRO			
30–30	5	6¾	1½	3	5	(1)-#14 to #4	9	V7B2211_①_R⑤			
30-603	5	6¾	1½ –3	3–10	5–10	(1)-#14 to #2	9	V7B2212LR [®] ■			
30-603	5	6¾	1½ -3	3–10	5–10	(1)-#14 to #4	9	V7B2212LRR⑤■			
60–60	5	6¾	3	10	10	(1)-#14 to #2	9	V7B222203			
60–60	5	6¾	3	10	10	(1)-#14 to #2	9	V7B2222_①_R⑤®			
60-100 ³	7½	6¾	3–7½	10–15	10–20	(1)-#14 to #1/0	18	V7E2223LR ^④ ■			
100-100	7½	6¾	7½	15	20	(1)-#14 to #1/0	20	V7E2233①O			
200	7½	6¾	15	_	40	(1)-#6 to 350 kcmil	21	V7E2204①□			
400	10	10.5	_	_	50	(1)-#1/0 to 750 kcmil or (2)-#1/0 to 300 kcmil	35	V7F3205A [⊙] ●			
400	15	10.5	_	_	50	(2)-#1/0 to 750 kcmil or (4)-#1/0 to #4/0	44	V7H2205A [®] ●			
600	15	10.5	_	_	_	(2)-#1/0 to 750 kcmil or (4)-#1/0 to #4/0	44	V7H2206A [®] ■●			

3-Pole, Branch Circuits, 17" Wide Units

240V	A
------	---

o i ole, bit	anion onou	13, 17	C Cilits					
30–30	2½②	6¾	3	7½	l —	(1)-#14 to #8 (Cu Only)	5	V7A3211
30–30	5	6¾	3	7½	_	(1)-#14 to #4	9	V7B3211
30–30	5	6¾	3	7½	_	(1)-#14 to #4	9	V7B3211R ^⑤
30–60	5	6¾	3–7½	7½–15	_	(1)-#14 to #2	9	V7B3212
30–60	5	6¾	3–7½	7½–15	_	(1)-#14 to #2	9	V7B3212R®
60–60	5	6¾	7½	15	_	(1)-#14 to #2	9	V7B3222
60–60	5	6¾	7½	15	_	(1)-#14 to #2	9	V7B3222R®
60	7½	6¾	7½	15	_	(1)-#14 to #1/0	13	V7E3202
60–100	7½	6¾	7½–15	15–30	_	(1)-#14 to #1/0	18	V7E3223
100-100	7½	6¾	15	30	_	(1)-#14 to #1/0	20	V7E3233
100-100	7½	6¾	15	30	_	(1)-#14 to #1/0	20	V7E3233R®
100	7½	6¾	15	30	_	(1)-#14 to #1/0	14	V7E3203
200-200	10	6¾	25	60	_	(1)-#6 to 300 kcmil	40	V7F3644®
200-200	10	6¾	25	60	_	(1)-#6 to 300 kcmil	40	V7F3244R [©]
200	10	6¾	25	60	_	(1)-#6 to 350 kcmil	21	V7F3204
400	10	10.5	100	250	125	(1)-#1/0 to 750 kcmil or (2)-#1/0 to 300 kcmil	35	V7F3205A ^⑦ ●
400	15	10.5	100	250	125	(2)-#1/0 to 750 kcmil or (4)-#1/0 to #4/0	44	V7H3205A●
600	15	10.5	150	400	200	(2)-#1/0 to 750 kcmil or (4)-#1/0 to #4/0	44	V7H3206A●

3-Pole, Main Switch, 17" Wide Units (Vertical Mount, Top Feed, Front Connected)

240V AC

					-			
400	18.75	10%	50	125	_	_	_	VMS325T
600	18.75	10%	75	200	_	_	_	VMS326T

3-Pole, Main Switch, 17" Wide Units (Vertical Mount, Bottom Feed, Front Connected)

240V AC

-	-			-				
400	18.75	10%	50	125	_	_	_	VMS325B
600	18.75	10¾	75	200	_	_	_	VMS326B

For inches / millimeters conversion, multiply inches by 25.4.

- Built to order. Allow 4-6 weeks for delivery.
- MR suffix. Built to order. Allow 4-6 weeks for delivery.
 MR, LM suffix. Built to order. Allow 4-6 weeks for delivery.
- delivery.

 A suffix. New 'Series A' design

- Order 2-pole branch circuit units by adding appropriate connection designation LM, LR or MR (indicating Left, Middle and Right, facing the panel).
 This unit is not a Vacu-Break unit, but rather operates on a slid-
- 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.
- Available as Type LR connection designation only.
- © Switches set up for R-fuse applications only.
- ® 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.
- © Compact 10" version of 400A.
- ® V7B2222MR not available
- ③ 3-pole compact 10" version suitable for 2-pole application.

Type VB Panel Units Selection

Vacu Brook® Fueible Unite For SR1 SR2 Switchhoards and F1 F2 Panelhoards

Ampere Rating	Unit Height (inches)	Unit Depth (inches)	480 Volt	ver Rating AC Maximum	600 Volt A	-	Lug Wire Range (Cu/Al) and Cables Per Pole	Unit Weight (pounds)	Catalog Number
Pole, Bra	nch Circui	ts, 17" Wid	le Units	D					600V AC, 250V
30–30	7½	63/4	3	7½	3	10	(1)-#14 to #4	14	V7E2611LR®■
30-60	7½	63/4	3–5	7½-20	3–5	20-25	(1)-#14 to #4	14	V7E2612LR®■
100	7½	63/4	10	20	15	40	(1)-#14 to #1/0	14	V7E2603LR®■
-Pole, Bra	nch Circui	ts, 17" Wid	de Units						600V AC, 250V
30-30	7½	63/4	5	15	7½	20	(1)-#14 to #4	14	V7E3611
30-30	7½	63/4	5	15	7½	20	(1)-#14 to #4	14	V7E3611R ^⑦
30	7½	63/4	5	15	7½	20	(1)-#14 to #4	14	V7E3601
30-60	7½	63/4	5–15	15–30	7½–15	20-50	(1)-#14 to #2	14	V7E3612
60-60	7½	63/4	15	30	15	50	(1)-#14 to #2	14	V7E3622
60–60	7½	63/4	15	30	15	50	(1)-#14 to #2	14	V7E3622R⑦
60	7½	63/4	15	30	15	30	(1)-#14 to #2	14	V7E3602
60-100	7½	63/4	15–25	30-60	15–30	50-75	(1)-#14 to #1/0	18	V7E3623
100-100	7½	63/4	25	60	30	75	(1)-#14 to #1/0	20	V7E3633
100–100	7½	63/4	25	60	30	75	(1)-#14 to #1/0	20	V7E3633R⑦
100	7½	63/4	25	60	30	75	(1)-#14 to #1/0	14	V7E3603
200–200	10	63/4	50	125	60	150	(1)-#6 to 300 kcmil	40	V7F3644J2
200	10	63/4	50	125	60	150	(1)-#6 to 350 kcmil	21	V7F3604
200	10	63/4	50	125	60	150	(1)-#6 to 350 kcmil	21	V7F3604R ^⑦
400	10	101/2	100	250	125	350	(1)-#1/0 to 750 kcmil or (2)-#1/0 to 300 kcmil	35	V7F3605A®●
400	15	101∕2	100	250	125	350	(2)-#1/0 to 750 kcmil or (4)-#1/0 to #4/0	44	V7H3605A●
600	15	10√2	150	400	200	500	(2)-#1/0 to 750 kcmil or (4)-#1/0 to #4/0	44	V7H3606A●
Pole, Ma	in Switch,	17" Wide	Units (V	ertical M	ount, To	p Feed, I	Front Connected)		600V AC, 250V
400	18.75	103/8	100	250	125	350	3	_	VMS365T
600	18.75	10%	150	400	200	500	3	_	VMS366T
Pole, Ma	in Switch,	17" Wide	Units (V	ertical M	ount, Bo	ttom Fe	ed, Front Connected)		600V AC, 250V
400	18.75	1711/16	100	250	125	350	3	_	VMS365B
600	18.75	17 ¹¹ / ₁₆	150	400	200	500	3	_	VMS366B
Pole, Sw	ritchboard	Units, 21"	Wide Uı	nits, Fron	t Conne	cted ^⑤			600V AC, 250V
800	25	123/4	200	500	250	500	_	160	VF357TL or BL@C
1200	25	123/4	_	_	_	_	_	160	VF358TL or BL®
Pole. Sw	itchboard	Units, 21"	Wide. B	ack Conn	ected			•	600V AC, 250V
800	25	123/4	200	500	250	500	_	160	VB357TL or BL@
		1		1		-			1

VB358TL or BL⁴■

160

1200

25

12³/₄

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

◆ MR suffix only is available and built to order. Allow 2–3

weeks for delivery.

O BL suffix. Built to order. Allow 2–3 weeks for delivery.

A suffix. New 'Series A' design

[©]Catalog number for 2-pole branch circuit units indicate connection designation LM, LR or MR (indicating Left,

Middle and Right, facing the panel).

Unit configured to accept class J fuses only. Also accepts 300V Class T fuses when used with TFAK42 adapter kit.

Load-side furnished with spade type bolted terminal pads.

Suffix "T" or "TL" indicates Top Feed.

Suffix "B" or "BL" indicates Bottom Feed.

[®] 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.

Available as Type MR designation only.
 Switches set up for R-fuse applications only.

<sup>Available as Type LR designation only.
3-pole compact 10" version suitable for 2-pole application.</sup>

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 to the right.

Unit Type	Unit Height (inches)	Normal Unit Depth (inches)	Extended Unit Depth (inches)	Catalog Number
V2A	2½	4%16	6¾	W43000 ■
V2B	5	4%16	6¾	W43002
V7A	2½	6¾	10½	W48762
V7B	5	6¾	10½	W48763
V7E	7½	6¾	10½	W48764
V7F	10	6¾	10½	W48765 [®]

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	Class R Kits	Class J Kits	Class T Kits			
Amperage	Catalog Number	Catalog Number	Catalog Number			
30②	Factory Inst.	_	_			
60	W56628	_	_			
100	W55365	W49827	TFAK32			
200	W55366	W49819	TFAK42			
400	HR65A	_ 67	HT25A			
600	HR66A	HJ66A ⁷ ®	HT26A			

600 Volt Fuse Adapter Kits

Switch	Class R Kits	Class J Kits	Class T Kits			
Amperage	Catalog Number	Catalog Number	Catalog Number			
30	W56623	W49832	_			
60	W56629	W49830	_			
100	W55365	W49828	TFAK35			
200	W55366 ³	W49818 ^①	TFAK45			
400	HR65A®	HJ65A®®	HT65A, HT265A®			
600	HR66A	HJ66A	HT66A			
800	_	-	TFAK75			

Vacu-Break Connecting Strap Kits For Panelboards and Switchboards

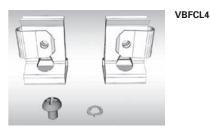
Ampere Rating	240V Unit Height (inches)	600V Unit Height (inches)	P4/S4/F1, FPP (10" Deep) Strap Kit	P5/S5/F2 (12.75" Deep) Strap Kit	SB1, SB2, SB3, VB-5, VB-6, Strap Kit
30–30	2.5	_	F602	F602D	_
30–30	5	7.5	F657	F657D	VB657
30-60	5	7.5	F657	F657D	VB657
60–60	5	7.5	F657	F657D	VB657
60-100	7.5	7.5	F657	F657D	VB657
100-100	7.5	7.5	F657	F657D	VB657
100	7.5	7.5	F657	F657D	VB657
200	7.5, 10	7.5, 10	F671	F671D	VB671
200-200	10	10	F672	F672D	VB610

Ordering Information

Catalog Number	Description		
Fuse Clip Kits			
VBFCL3 [®]	100A for V2E & V7E units (6) fuse clips per kit		
VBFCL4®	200A for V2E, V2F, V7E & V7F units (6) fuse clips per kit		
Lug Kits			
VBRL4	200A for V2F, V7E & V7F units (3) lugs per kit		
V7HBB65A®	Replacement lug base for 400A standard height (15") Series A		
V7FBB65A [®]	Replacement lug base for 400A compact height (10") Series A		
V7HBB66A [®]	Replacement lug base for 600A Series A		
Handle Kits			
VBRHK1232	100A for twin V2E & V7E units (2) handles per kit		
VBRHK41	200A for single V2E, V2F, V7E & V7F units (1) handle per kit		
VBRHK42 200A for twin V7F units (2) handles per kit			

For inches / millimeters conversion, multiply inches by 25.4.

- Built to order. Allow 2–3 weeks for delivery.
- A suffix. New 'Series A' design
- 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.
- 4 Fuse clips provided can be used on both the line and load sides.
- § Three line and three load fuse clips are provided.
- relocate lug base to achieve fuse fit [®] J fuse option not available for 240V main switch ® Lug base relocation plus kit required for branch
- circuit switches 9 Kit required for main switch only
- ® HT265A required for V7F3605A
- 10 One lug base required per switch
- @ Not for use on V7F3605A
- ® Not for use on V7F3605A or V7F3205A











Selection

Disconnect Switches

Type HCP Switchboard Units, Accessories

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
- 16½" 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 Mount¹

	B.4	B.4					Horsepower Rating							
Catalog	Maximum Ampere	Maximum AC Voltage	Fuse	Dimen	sions (in	ches*)	240V		480V		600V		250V	
Number	Rating	Rating ²	Class	Н	W	D	Std	Max	Std	Max	Std	Max	DC	
HCP367HJ400	400	600	J	16.25	17.22	7.38	50	125	100	250	125	350	40	
HCP367HJ600	600	600	J	16.25	17.22	7.38	75	200	150	400	200	400	40	
HCP327HT	800	240	Т	16.25	17.22	7.38	100	250	_	_	_	_	50	
HCP367H	800	600	L	16.25	17.22	7.38	100	250	200	500	250	500	50	
HCP328HT	1200	240	Т	16.25	17.22	7.38	100	250	_	_	_	_	50	
HCP368H	1200	600	L	16.25	17.22	7.38	100	250	200	500	250	500	50	

3-Pole, Vertical Mount

•	o-i ole, vertical iviou	110												
	HCP367VJ400	400	600	J	17.00	16.25	7.38	50	125	100	250	125	350	40
	HCP367VJ600▲	600	600	J	17.00	16.25	7.38	75	200	150	400	200	400	40
	HCP327VT	800	240	Т	17.00	16.25	7.38	100	250	_	_	_	_	50
	HCP367V	800	600	L	17.00	16.25	7.38	100	250	200	500	250	500	50
Γ	HCP328VT	1200	240	Т	17.00	16.25	7.38	100	250	_	_	_	_	50
Γ	HCP368V	1200	600	L	17.00	16.25	7.38	100	250	200	500	250	500	50

Accessories

Terminal Connectors (one lug per kit)

Ampere Rating	Catalog Number	Connector Wire Range
400-600A	TA2K500	(2) #1 AWG-500 kcmil (Cu or Al)
400-600A	TC2K500	(2) #1 AWG-500 kcmil (Cu only)
400-800A	TA3K500	(3) #1 AWG-500 kcmil (Cu or Al)
400-800A	TC3K350	(3) #1 AWG-350 kcmil (Cu only)
400-1200A	TA4H500	(4) #2 AWG-500 kcmil (Cu or Al)
400-1200A	TA3H750	(3) 500-750 kcmil (Cu or Al)

Auxiliary Switch Kits

Contact	Maximum Volt	tage	Switch		Catalog	
Ampere Rating	AC	DC	Mounting	Contacts	Number	
15A	480	125	Left Pole	1NO/1NC	A01HCPL4▲	
15A	480	125	Right Pole	1NO/1NC	A01HCPR4	

Shunt Trip Kit

Control Voltage		
AC	DC	Catalog Number
120	_	HCPST120
240	_	HCPST240▲
277	_	HCPST277
480	_	HCPST480▲

*For inches / millimeters conversion, multiply inches by 25.4

Switchboard Connection Strap Kit¹

Switch Ampere Rating	Catalog Number
400-1200A	F6162D

▲ 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.

T Fuse Adapter Kits (one per pole)

Catalog Number	Description
TFAK72	800A, 300V AC
TFAK75	800A, 600V AC
TFAK82	1200A, 300V AC

HCP Replacement Handle Kit (For use on all HCP switches)

SW Ampere Rating	Catalog Number
400-1200A	НСРНК

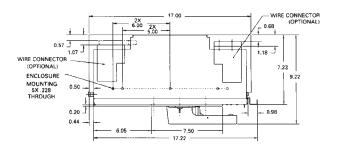
Compression Lug Adapter Kit

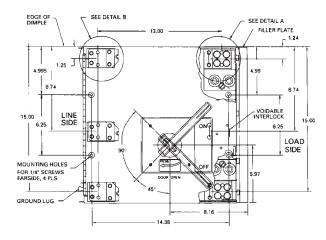
The use of this kit provides for the mounting of up to four lugs per phase. Each kit accepts lugs with (2) 3/8" diameter mounting holes on 1" centers. One kit per pole line or load is required. Lugs are not provided.

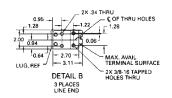
② Both 240 and 600V AC switches are also rated 250V DC max.

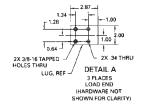
Horizontal Mount Drawing

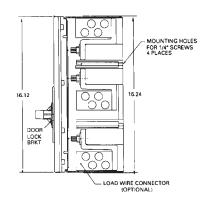
Type HCP Switchboard Units



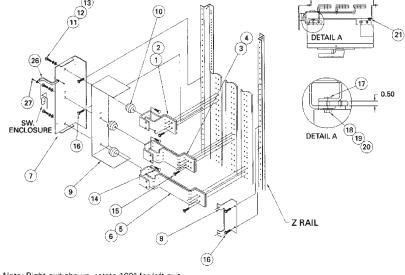








Group Mounting Assembly (Horizontal Mount Only)



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/CØ Strap (Short)	1ea.
3-4	BØ 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

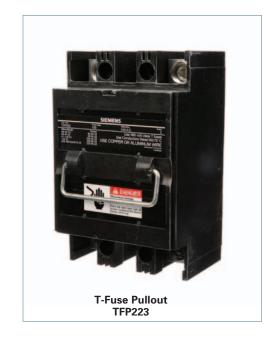
Features

Type TFP Fusible Pullouts

- 100 and 200 Ampere Disconnects
- 240 Volt and 600 Volt Designs

Type TFP Fusible Pullouts

- 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 Pullouts

2-Pole, 2-Fuse

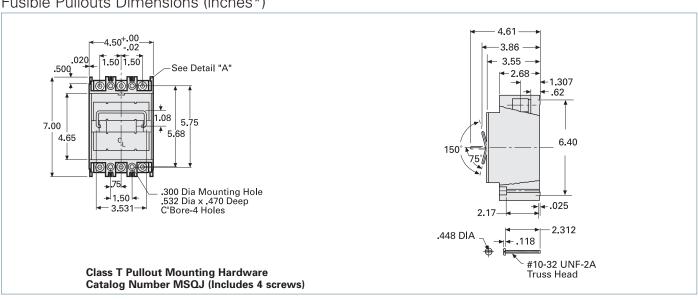
Maximum	Ampere	Catalog	Connector
Voltage	Rating	Number	Wire Range 60/75°C①
240 ^②	100	TFP223	(1 pc.) #6-300 kcmil Cu
	200	TFP224	(1 pc.) #4-300 kcmil Al

3-Pole, 3-Fuse

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

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

Fusible Pullouts Dimensions (inches*)



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.

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