

Single Door Disconnect Enclosures - NEMA 4, 4X

Selection Guide

Disconnect

Wallmount Enclosures

Hammond Series		1447SN4 & 1447SN4SS	EN4DCS all versions
ABB Controls	Disconnect Switch	Flange operated switch (fusible or non-fusible)	
		Shaft: 8-12" dp enclosures, use DSFHS-12; 16" dp enclosures, use DSFHS-17	
		Handle: DSFHN-HS4	Handle: n/a
	Circuit Breaker	Door Hardware: n/a	
		Circuit breaker: ABB	
		Operating Mechanism: see ABB chart	
Shaft: 8-12" dp enclosures, use K7FHD-S12; 16" dp enclosures, use K7FHD-S17			
Handle: K7FHD-HS4		Handle: n/a	
Door Hardware: n/a			
Allen Bradley	1494V Flange Disconnect Switch	Disconnect switch and operating mechanism: Bulletin 1494V	
		Handle: Bulletin 1494V-W1	Handle: n/a
		Connecting rod: 8-10" dp enclosures, use 1494V-RA1; 12-16" dp enclosures, use 1494V-RA2 (except for Hammond part # 1447S46L12, use 1494V-RB2 (2))	
		Trailer fuse block kit (if required): Bulletin 1494V	
		Fuse kit (if required)	
		Line and load connectors (if required)	
	1494V Flange Circuit Breaker	Door Hardware: n/a	
		Circuit breaker: C-H Westinghouse	
		Operating mechanism: Bulletin 1494V	
		Handle: Bulletin 1494V-W11	Handle: n/a
Connecting rod: 8-10" dp enclosures, use 1494V-RA1; 12-16" dp enclosures, use 1494V-RA2			
Door Hardware: n/a			
Cutler Hammer	Type C361 Disconnect Switch	Disconnect switch and operating mechanism	
		Handle: C361-H2 or H4	Handle: n/a
	Type C371 Circuit Breaker	Door Hardware: n/a	
		Circuit breaker: C-H Westinghouse	
		Operating mechanism	
	C-H Westinghouse Circuit Breaker w/FlexShaft	Handle: 150 amp, use C371H2 or H4; 250-600 amp, use C371H6 or H8	
Door Hardware: n/a			
Circuit breaker			
Complete Flex-Shaft handle mechanism			
Door Hardware: n/a			
General Electric	Type STDA Flange Disconnect Switch	Disconnect switch Type QMR or QMW	
		Handle: STDA1X	Handle: n/a
		Fuse kit (if required)	
		Variable depth operating mechanism	
	Type STDA Flange Circuit Breaker	Door Hardware: n/a	
		Circuit breaker	
		Handle: STDA1X	Handle: n/a
	Circuit Breaker w/SpectraFlex	Variable depth operating mechanism	
		Door Hardware: n/a	
Circuit breaker			
Flange Mt. Handle: 150-600 amp, use STDA1X; SK1200, use STDA3X			
Breaker mounted mechanism.		Handle: n/a	
Operating cable			
Door Hardware: n/a			
I-T-E Siemens	Max-Flex Flange Disconnect Switch	Disconnect switch: MCS	
		Fuse Kit (if required)	
		Handle: Flange mount FHOHS4	Handle: n/a
		Switch operator mechanism	
	Max-Flex Flange Circuit Breaker	Operating cable (standard 36.0")	
		Door Hardware: n/a	
		Circuit breaker	
Pressure wire connectors			
Handle: Flange mount FHOH4	Handle: n/a		
Circuit breaker operator mechanism			
Operating cable: standard 36"			
Door Hardware: n/a			
Square D	Class 9422 Disconnect Switch	Disconnect switch and operating mechanism 9422	
		Handle: 1447SN4 use A-1 or A-2; 1447SN4SS use A-2	Handle: n/a
	Class 9422 Circuit Breaker	Door Hardware: n/a	
		Circuit breaker	
		Operating mechanism: Class 9422	
	Class 9422 "T" Disconnect Switch w/ cable mechanism	Handle: 1447SN4 use A-1 or A-2; 1447SN4SS use A-2	Handle: n/a
		Door Hardware: n/a	
		Disconnect switch and operating mechanism 9422, Type T	
Circuit Breaker w/cable mechanism	Handle: 1447SN4 use A-1 or A-2; 1447SN4SS use A-2		
	Cable mechanism: Class 9422 CFT O - 3, 5, or 10 foot		
	Door Hardware: n/a		
Circuit breaker: Square D			
Handle: 1447SN4 use A-1 or A-2; 1447SN4SS use A-2	Handle: n/a		
Door Hardware: n/a			

Technical references and DXF downloads available at www.hamfmg.com

All dimensions in inches unless specified otherwise

Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect
Wallmount Enclosures

Space Occupied by Disconnect

Note: "K" = 8.62 when "C" = 8.00
 "K" = 11.62 when "C" = 12.00
 "P" = Wiring Space

Disconnects will occupy space on panel shown by dimensions "K", "L" and "M".
 Wiring space "P" is available when disconnect is installed in the enclosure.

*The disconnect information and space occupied tables based on data supplied by disconnect manufacturer's bulletins. Hammond Manufacturing not responsible for dimensional accuracy.

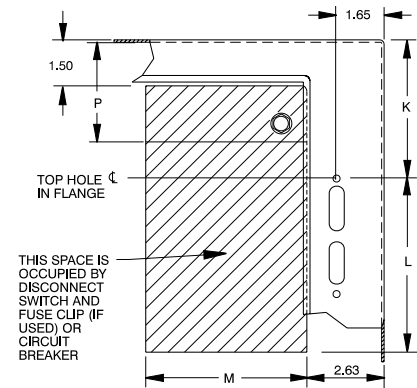


ABB Controls

ABB Controls Disconnect Switches (Flange Mounted Operators)

Fits Enclosure Depth	ABB Switch Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When	When
					L	M	K=8.62 P	K=11.62 P
• 8	• OETL-NF30-F	30A	No Fuse	—	4.45	3.78	10.28	13.28
• 12	• OETL-NF60-F	60A	No Fuse	—	4.86	3.78	10.09	13.09
• 8	• OETL-NF100-F	100A	No Fuse	—	4.86	4.78	9.53	12.53
• 12	• OETL-NF175-F	175A	No Fuse	—	7.30	6.49	7.28	10.28
• 8	• OETL-NF200-F	200A	No Fuse	—	7.36	7.28	7.28	10.28
• 12	• OESA-F30J6-F	30A	30A-600V	J	4.28	6.58	8.61	11.61
• 8	• OESA-F60J6-F	60A	60A-600V	J	4.28	6.26	8.61	11.61
• 12	• OESA-F100J6-F	100A	100A-600V	J ¹	6.54	7.65	8.17	11.17
		200A ²						

²200 A available by using non-fusible 200A switch and a trailing fuse block. (consult ABB)

ABB Controls Circuit Breakers (Flange Mounted Operators)

Fits Enclosure Depth	ABB Mechanism	Amp Rating	Fuse Type	Space Occupied		When	When
				L	M	K=8.62 P	K=11.62 P
• 8	• FHD-M	150A	D	6.92	3.94	9.17	12.17
• 12	• FHF-M	15A-225A	E/Q	5.98	4.23	7.72	10.72
• 8	• FHF-M	225A	Frame	7.44	4.23	7.72	10.72
• 12	• FHJ-M	400A	J	9.71	5.62	—	8.77
• 8	• FHM-M	600A	L	8.28	11.26	—	8.28
• 12	• FHM-M	800A	M	10.11	11.26	—	7.87

Fits Enclosure Depth	ISOMAX Circuit Breaker	Amp Rating	Operating Mechanism	Fuse Type	Space Occupied		When	When
					L	M	K=4.75 P	K=7.09 P
• 8	• S1N100TL	100A	K2FHD-M	S1	5.30	4.60	9.13	12.13
• 12	• S3N150TW	150A	K3FHD-M	S3	6.67	5.02	—	11.53
• 8	• S3N225TW	225A	K3FHD-M	S3	6.67	5.02	—	11.53
• 12	• S4N250BW	250A	K4FHD-M	S4	8.45	5.02	—	10.00
• 8	• S5N400TW	400A	K5FHD-M	S5	8.45	6.40	—	10.00
• 12	• S6N600TW	600A	K6FHD-M	S6	8.33	10.00	—	9.33
• 8	• S6N800TW	800A	K6FHD-M	S6	8.33	10.00	—	9.33

Charts reference Space Occupied by Disconnect Drawing.

Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

Allen Bradley

Allen Bradley 1494V Disconnect Switches

Fits Enclosure 8	Depth 12	Allen Bradley Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When K=8.62 P	When K=11.62 P
						L	M		
•	•	DS30	30A	No Fuse	—	3.88	6.62	6.75	9.75
•	•	DS30	30A	30A-250V	H,K,R	5.25	6.62	6.75	9.75
•	•	DS30	30A	30A-600V	H,K,R	8.00	6.62	6.75	9.75
•	•	DS30	30A	30A-600V	J	5.25	6.62	6.75	9.75
•	•	DS30	30A	60A-250V	H,K	6.00	6.62	6.75	9.75
•	•	DS30	30A	60A-600V	H,K	8.50	6.62	6.75	9.75
•	•	DS30	30A	60A-600V	J	5.38	6.62	6.75	9.75
•	•	DS60	60A	No Fuse	—	3.88	6.62	6.62	9.62
•	•	DS60	60A	60A-250V	H,K,R	6.00	6.62	6.62	9.62
•	•	DS60	60A	60A-600V	H,K,R	8.50	6.62	6.62	9.62
•	•	DS60	60A	60A-600V	J	5.38	6.62	6.62	9.62
•	•	DS60	60A	30A-600V	H,K,R	8.00	6.62	6.62	9.62
•	•	DS60	60A	100A-250V	H,K	8.50	6.62	6.62	9.62
•	•	DS60	60A	100A-600V	H,K	10.50	6.62	6.62	9.62
•	•	DS60	60A	100A-600V	J	7.25	6.62	6.62	9.62
•	•	DS100 ¹	100A	No Fuse	—	3.88	6.62	6.44	9.62
•	•	DS100 ¹	100A	100A-250V	H,K,R	8.12	6.62	6.44	9.62
•	•	DS100 ¹	100A	100A-600V	H,K,R	10.12	6.62	6.44	9.62
•	•	DS100 ¹	100A	100A-600V	J	6.88	6.62	6.44	9.62
•	•	DS100 ¹	100A	60A-600V	H,K,R	10.12	6.62	6.44	9.62
•	•	DS100 ¹	100A	60A-600V	J	8.88	6.62	6.44	9.62
•	•	DS200 ¹	200A	No Fuse	—	4.75	7.88	—	8.12
•	•	DS200 ¹	200A	200A-250V	H,K,R	10.88	7.88	—	8.12
•	•	DS200 ¹	200A	200A-600V	H,K,R	13.38	7.88	—	8.12
•	•	DS200 ¹	200A	200A-600V	J	9.50	7.88	—	8.12
•	•	DS200 ¹	200A	100A-600V	H,K,R	12.00	7.88	—	8.12
•	•	DS200 ¹	200A	100A-600V	J	8.75	7.88	—	8.12

¹Series B

²"M" dimension does not allow for auxiliary switches.

Wallmount Enclosures

Allen Bradley 1494V Circuit Breakers

Fits Enclosure 8	Depth 12	Allen Bradley Type No.	Amp Rating	Fuse Type	Space Occupied		When K=8.62 P	When K=11.62 P
					L	M		
•	•	M40	15A to 150A	C-H Westinghouse Circuit Breakers EHD,FD,FDB,FDC,HFD,HMCP	5.00	4.50 ¹	8.12	11.12
•	•	M50	70A to 250A	C-H Westinghouse Circuit Breakers JD,JDB,JDC,HJD,HMCP	9.75	4.75 ¹	—	10.62
•	•	M60	100A to 400A	C-H Westinghouse Circuit Breakers KD,KDB,DK,HKD,HMCP	9.69	6.12 ¹	—	10.50

¹"M" dimension does not allow for auxiliary switch

Charts reference Space Occupied by Disconnect Drawing.

Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

Wallmount Enclosures

Cutler Hammer

Cutler Hammer C361 Disconnect Switches

Fits Enclosure	Depth		Cutler Hammer Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When	When
	8	12					L	M	K=8.62 P	K=11.62 P
•	•		C361NC	30A	No Fuse	—	5.75	7.43	7.31	10.31
•	•		C361SC21	30A	30A-250V	H, K, R	8.38	7.43	7.31	10.31
•	•		C361SC61	30A	60A-250V	H, K, R	8.38	7.43	7.31	10.31
•	•		C361SC61	30A	30A-600V	H, J, K, R	8.38	7.43	7.31	10.31
•	•		C361ND	60A	No Fuse	—	5.75	7.43	7.31	10.31
•	•		C361SD22	60A	60A-250V	H, K, R	8.38	7.43	7.31	10.31
•	•		C361SD22	60A	30A-600V	J	8.38	7.43	7.31	10.31
•	•		C361SD62	60A	30A-600V	H, K, R	8.38	7.43	7.31	10.31
•	•		C361SD62	60A	60A-600V	J	8.38	7.43	7.31	10.31
•	•		C361NE	100A	No Fuse	—	5.56	8.95	7.47	9.91
•	•		C361SE263	100A	100A-250V	H, K, R	10.31	8.95	7.47	9.91
•	•		C361SE263	100A	100A-600V	H, K, R	10.31	8.95	7.47	9.91
•	•		C361SE263	100A	100A-600V	J	10.31	8.95	7.47	9.91
1,2	2		C361NF	200A	No Fuse	—	13.06	10.00	4.94	7.94
1,2	2		C361SF264	200A	200A-250V	H, K, R	13.06	10.00	4.94	7.94
1,2	2		C361SF264	200A	200A-600V	H, J, K, R	13.06	10.00	4.94	7.94

¹Wire bend space "P" does not allow the use of maximum cable size in 8" deep enclosures.

²200A switch should be installed in enclosures with an "A" dimension of 30" or greater.

Cutler Hammer C371 Circuit Breaker Operators (C-H Westinghouse Circuit Breakers)

Fits Enclosure	Depth		Allen Bradley Type No.	Amp Rating	Fuse Type	Space Occupied		When	When
	8	12				L	M	K=8.62 P	K=11.62 P
•	•		C371E	150A	F Frame EHD,FDB,FD,HFD,FDC	6.00	5.50	8.44	11.44
•	•		C371E	150A	F Frame HMCP	6.00	5.50	8.44	11.44
•	•		C371F	250A	J Frame JDB,JD,HJD,JDC	8.94	8.00	—	11.25
•	•		C371F	250A	J Frame HMCP	10.94	8.00	—	11.25
•	•		C371F	400A	K Frame DK,KDB,KD,HKD	9.75	8.00	—	10.75
•	•		C371F	400A	K Frame HMCP	9.75	8.00	—	10.75
•	•		C371G	600A	L Frame LD,HLD,LDC	8.44	11.88	—	9.18
•	•		C371G	600A	L Frame HMCP	8.44	11.88	—	9.18

Charts reference Space Occupied by Disconnect Drawing.

...Cutler Hammer continued on next page

Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

Cutler Hammer cont'd.

Cutler Hammer Flex-Shaft™ Operator Mechanisms (C-H Westinghouse Circuit Breakers)

Fits Enclosure Depth		Complete Operator Mechanism	Amp Rating	Fuse Type	Breaker Height "X"	Breaker Width "Y"
8	12					
•	•	F1S03	150A	F Frame EHD,FDB,FD,HFD,FDC	6.00	4.12
•	•	F1S03	150A	F Frame HMCP	6.00	4.12
•	•	F2S03	250A	J Frame JDB,JD,HJD,JDC	10.00	4.12
•	•	F2S03	250A	J Frame HMCP	10.00	4.12
•	•	F3S03	400A	K Frame DK,KDB,KD,HKD	10.12	5.50
•	•	F3S03	400A	K Frame HMCP	12.45	5.50
	•	F4S04	600A	L Frame LD,HLD,LDC	10.75	8.25
	•	F7S04	800A	M Frame MD,MDS	16.00	8.25
	•	F5S04	1200A	N Frame ND,HND,NDC	16.00	8.25
	•	F6S04	2500A	R Frame RD,CRD, RDC	16.00	15.50

Part numbers for Complete Operator Mechanisms include flange mounted handle, flexible shaft and circuit breaker mechanism. The last digit of the part number denotes the shaft length (F1S03=3' length).

- F,J,K frame Flex-Shafts™ available in 3' to 10' lengths.
- L,N,R frame Flex-Shafts™ available in 4' to 6' lengths.

Space Occupied By Disconnect

1. Flex-Shaft™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 4" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
 - Overall (Height "X" and Width "Y")
 - Minimum wire bend space (manufacturer specified)
 - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

Wallmount Enclosures

Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

Wallmount Enclosures

General Electric

General Electric Type STDA Disconnect Switches

Fits Enclosure Depth		General Electric Mechanism For Switch	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When K=8.62	When K=11.62
8	12					L	M	P	P
•	•	TDOM1A	30A	No Fuse	—	7.75 ¹	5.25	9.12	12.12
•	•	TDOM1A	30A	30A-250V	H, R	7.75 ¹	5.25	9.12	12.12
•	•	TDOM1B	30A	30A-600V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1B	30A	60A-250V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1B	30A	60A-600V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1A	60A	No Fuse	—	7.75 ¹	5.25	9.12	12.12
•	•	TDOM1B	60A	60A-250V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1B	60A	60A-600V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1B	60A	100A-250V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1B	60A	100A-600V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1A	100A	No Fuse	—	7.75 ¹	5.25	9.12	12.12
•	•	TDOM1B	100A	100A-250V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1B	100A	100A-600V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1B	100A	200A-250V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM1B	100A	200A-600V	H, R	12.38 ¹	5.25	9.12	12.12
•	•	TDOM2	200A	No Fuse	—	7.00	9.12	6.50	9.50
•	•	TDOM2	200A	200A-250V	H, R	15.38	9.12	6.50	9.50
•	•	TDOM2	200A	200A-600V	H, R	15.38	9.12	6.50	9.50

¹ Applies to 8" deep enclosures, and is 0.875" less in 12" deep enclosures.

General Electric Type STDA Operators For Circuit Breakers

Fits Enclosure Depth		General Electric Mechanism For Switch	Amp Rating	Fuse Type	Space Occupied		When K=8.62	When K=11.62
8	12				L	M	P	P
•	•	SDOM1A	150A	TEB, TED, THED	7.75 ¹	5.25	9.06	12.06
•	•	SDOM1A	150A	TEC	7.75 ¹	5.25	9.06	12.06
•	•	TDOM1B	150A	TB1	12.38 ¹	5.25	9.06	12.06
•	•	TDOM1B	150A	TEC, TECL	12.38 ¹	5.25	9.06	12.06
•	•	TDOM1C	150A	TEL	7.75 ¹	5.25	9.06	12.06
•	•	TDOM1D	150A	THLC1	7.75 ¹	5.25	6.62	9.62
•	•	TDOM3	225A	TFJ	10.38	5.75	7.62	10.62
•	•	TDOM3	225A	TFK, THFK, TFL	10.38	5.75	7.62	10.62
•	•	TDOM4	400A	TJJ, TJK4, THJK4, TJL4V	8.25	9.38	6.69	9.69
•	•	TDOM4	600A	TJK6, THJK6, TJ4V, TJL4V	8.25	9.38	6.69	9.69
•	•	TDOM5	400A	TB4, TJH6S	14.25	9.38	6.69	9.69
•	•	TDOM6	225A	TLB2, THLC2	11.75	9.38	6.12	9.12
•	•	TDOM6	400A	TLB4, THLC4	11.75	9.38	4.75	7.75
•	•	SDOM1A	150A	SPECTRA SE150	7.75 ¹	5.25	9.06	12.06
•	•	SDOM3	250A	SPECTRA SF250	10.38	5.75	7.06	10.06
•	•	SDOM4	600A	SPECTRA SG600	10.00	7.00	—	7.93

¹ Applies to 8" deep enclosures, and is 0.875" less in 12" deep enclosures.

Charts reference Space Occupied by Disconnect Drawing.

...General Electric continued on next page

Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

General Electric cont'd.

General Electric Circuit Breakers (Spectra-Flex™ Cable Operators)

Fits Enclosure Depth		Frame Size	Max Amp Rating	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
C=8	C=12				
•	•	E150	150A	6.31	4.12
•	•	SE150	150A	6.31	4.12
	•	SF250	250A	10.12	4.12
	•	SG600	600A	10.09	5.50
	•	SK1200	1200A	15.50	8.25

Frame Size	Breaker Mechanism	Flange Mounting Handle ¹	Operating Cable ²
E150	SCOM1A	SCH1	SC3L
SE150/SF250	SCOM1EF	SCH1	SC3L
SG600	SCOM1G	SCH1	SC3L
SK1200	SCOM1K	SCH2K	SC3H

¹Add "X" for NEMA 4 or NEMA 4X Flange mounting handle.

²Operating Cables are available 3' to 10' lengths. In the table above, the number "3" in the part number indicates a 3' cable.

Space Occupied By Disconnect

1. GE Spectra-Flex™ Operating Cables permit circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 3" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
 - Overall (Height "X" and Width "Y")
 - Minimum wire bend space (manufacturer specified)
 - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing...see page 164.

Wallmount Enclosures

Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

Wallmount Enclosures

Siemens I-T-E

Siemens I-T-E Disconnect Switches (Max-Flex™ Operators)

Fits Enclosure Depth		Switch	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
C=8	C=12						
•	•	MCS603R	30A	No Fuse	—	5.52	6.13
•	•	MCS603R	30A	30A-250V	H,K,R	8.11	6.13
•	•	MCS603R	30A	30A-600V	H,K,R	10.11	6.13
•	•	MCS603R	30A	30A-600V	J	8.48	6.13
•	•	MCS606R	60A	No Fuse	—	5.52	6.13
•	•	MCS606R	60A	60A-250V	H,K,R	7.86	6.13
•	•	MCS606R	60A	60A-600V	H,K,R	10.38	6.13
•	•	MCS606R	60A	60A-600V	J	8.36	6.13
•	•	MCS610R	100A	No Fuse	—	7.59	7.38
•	•	MCS610R	100A	100A-250V	H,K,R	11.85	7.38
•	•	MCS610R	100A	100A-600V	H,K,R	13.85	7.38
•	•	MCS610R	100A	100A-600V	J	10.60	7.38
•	•	MCS620R	200A	No Fuse	—	9.00	9.17
•	•	MCS620R	200A	200A-250V	H,K,R	14.70	9.17
•	•	MCS620R	200A	200A-600V	H,K,R	17.20	9.17
•	•	MCS620R	200A	200A-600V	J	13.32	9.17

Siemens I-T-E Max-Flex™ Operators (Circuit Breakers)

Complete Operator Mechanism	Amp Rating	Breaker Frame Size	Circuit Breaker Type	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
FHOE036	125A	ED	ED2,ED4,ED6,HED4,HED6,	6.34	3.00
FHOE036	125A	CED	CED6	9.58	3.00
FHOF036	250A	FD	FXD6-A,FD6-A,HFD6,FXD6-ETJ,HHFD6, HFFXD6	9.50	4.50
FHOF036	250A	CFD	CFD6,CFD6-ETI	14.25	4.50
FHOJ036	400A, 600A	JD, LD	JXD2,LXD6,JD6,LD6,HJD6,HLD6,HHJD6,HH LD6, HHJXD6,HHLXD6,JXD6-ETI,LXD6-ETI	11.00	7.50
FHOJ036	400A, 600A	CJD,CLD	CJD6,CLD6,CJD6-ETI,CLD6-ETI	17.86	7.50
FHOLMO36	800A	LMD	LMD6,LMXD6,HLMD6,HLMDX6,LMXD6-ETI	16.00	9.00

Last three digits of operator mechanism part number denote cable length in inches.

- 48" cables are offered for ED, FD, JD/LD operators

Space Occupied By Disconnect

1. I-T-E Max-Flex™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. See Siemens I-T-E instructions for disconnect location limitations when using 36" or 48" Max-Flex™ cables.
4. Space occupied by circuit breaker is calculated by:
 - Overall (Height "X" and Width "Y")
 - Minimum wire bend space (manufacturer specified)
 - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing...see page 164.

Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Square D

Square D Class 9422 Disconnect Switches

Fits Enclosure Depth		Square D Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When	
8	12					L	M	K=8.62	K=11.62
•	•	TCN-30	30A	No Fuse	—	3.80	6.84	7.56	10.56
•	•	TCF-30	30A	30A-250V	H, K, R	5.53	6.84	7.56	10.56
•	•	TCF-33	30A	30A-600V	H, K, R	8.15	6.84	7.56	10.56
•	•	TCF-33	30A	60A-250V	H, K, R	6.15	6.84	7.56	10.56
•	•	TCF-33	30A	30A-600V	J	5.53	6.84	7.56	10.56
•	•	TDN-60	60A	No Fuse	—	3.80	6.84	7.56	10.56
•	•	TDF-60	60A	30A-600V	H, K, R	8.15	6.84	7.56	10.56
•	•	TDF-60	60A	60A-250V	H, K, R	6.15	6.84	7.56	10.56
•	•	TDF-63	60A	60A-600V	H, K, R	8.65	6.84	7.56	10.56
•	•	TDF-63	60A	60A-600V	J	5.53	6.84	7.56	10.56
•	•	TEN-10	100A	No Fuse	—	3.80	6.84	7.44	10.44
•	•	TEF-10	100A	100A-250V	H, K, R	8.25	6.84	7.44	10.44
•	•	TEF-10	100A	100A-600V	H, K, R	10.25	6.84	7.44	10.44
•	•	TEF-10	100A	100A-600V	J	7.05	6.84	7.44	10.44
•	•	TC-1	30A	No Fuse	—	5.75	6.00	6.62	9.62
•	•	TC-2	30A	30A-250V	H, K, R	5.75	6.00	6.62	9.62
•	•	TC-3	30A	30A-600V	H, K, R	7.75	6.00	6.62	9.62
•	•	TC-3	30A	60A-250V	H, K, R	5.88	6.00	6.62	9.62
•	•	TC-3	30A	30A-600V	J	5.75	6.00	6.62	9.62
•	•	TD-1	60A	No Fuse	—	6.38	6.62	7.50	10.50
•	•	TD-2	60A	30A-600V	H, K, R	8.50	6.62	7.50	10.50
•	•	TD-2	60A	60A-250V	H, K, R	6.50	6.62	7.50	10.50
•	•	TD-3	60A	60A-600V	H, K, R	9.00	6.62	7.50	10.50
•	•	TD-3	60A	60A-600V	J	6.38	6.62	7.50	10.50
•	•	TE-1	100A	No Fuse	—	4.75	8.38	—	10.25
•	•	TE-2	100A	100A-250V	H, K, R	7.50	8.38	—	10.25
•	•	TE-2	100A	100A-600V	H, K, R	9.50	8.38	—	10.25
•	•	TE-2	100A	100A-600V	J	6.25	8.38	—	10.25
•	•	TE-3	100A	200A-600V	J	13.75	8.38	—	10.25
•	•	TF-1	200A	No Fuse	—	5.50	11.62	—	8.88
•	•	TF-2	200A	200A-250V	H, K, R	11.50	11.62	—	8.88
•	•	TF-2	200A	200A-600V	H, K, R	14.00	11.62	—	8.88
•	•	TF-2	200A	200A-600V	J	10.12	11.62	—	8.88
•	•	TF-3	200A	400A-600V	J	14.50	11.62	—	8.88

Square D Class 9422 Variable Depth Operators (Circuit Breakers)

Fits Enclosure Depth		General Electric Mechanism For Switch	Amp Rating	Frame Size	Space Occupied		When	
8	12				L	M	K=8.62	K=11.62
•	•	RG-1	75A	GJL	3.53	3.74	7.47	10.47
•	•	RG-1	100A	GJL	3.53	3.74	7.47	10.47
•	•	RN-1	100A	FAL,FHL	5.12	5.25	7.62	10.62
•	•	RP-1	250A	KAL,KHL	7.12	5.62	8.38	11.38
•	•	RR-1	400A	LAL, LHL, Q4L	7.62	8.75	—	7.00

Charts reference Space Occupied by Disconnect Drawing.

Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

Wallmount Enclosures

Square D

Square D Class 9422 Disconnect Switches (Cable Mechanism 9422-CFT30 and 9422A-1 Handle Mechanism)

Fits Enclosure Depth		Square D Type Number	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
C=8	C=12						
•	•	TCN-30	30A	No Fuse	—	5.90	6.20
•	•	TCF-30	30A	30A-250V	H, K, R	7.50	6.20
•	•	TCF-33	30A	30A-600V	H, K, R	10.15	6.20
•	•	TCF-33	30A	60A-250V	H, K, R	8.15	6.20
•	•	TCF-33	30A	30A-600V	J	7.50	6.20
•	•	TDN-60	60A	No Fuse	—	5.90	6.20
•	•	TDF-60	60A	30A-600V	H, K, R	10.15	6.20
•	•	TDF-60	60A	60A-250V	H, K, R	8.15	6.20
•	•	TDF-63	60A	60A-600V	H, K, R	10.65	6.20
•	•	TDF-63	60A	60A-600V	J	7.5	6.20
	•	TEN-10	100A	No Fuse	—	5.90	6.20
	•	TEF-10	100A	100A-250V	H, K, R	10.35	6.20
	•	TEF-10	100A	100A-600V	H, K, R	12.35	6.20
	•	TEF-10	100A	100A-600V	J	10.35	6.20

Square D Class 9422 Cable Mechanism (Circuit Breakers)

Fits Enclosure Depth		Cable Type Switch	Amp Rating	Fram Type	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
C=8	C=12					
•	•	9422 CGJ30	75A	GJL	4.75	3.50
•	•	9422 CEJ30	100A	GJL	4.75	3.50
•	•	9422 CFA30	100A	FAL,FHL	6.00	4.50
•	•	9422 CKA30	250A	KAL,KHL	8.00	4.50
	•	9422 CLA30	400A	LAL,LHL,Q4L	11.00	6.00

Use cable mechanism with circuit breaker and 9422-A1 handle mechanism

Cable operators are offered in 3', 5', and 10' lengths. Last 2 digits of part numbers above (30) are for 3' cables

Space Occupied By Disconnect Switch

1. Square D Cable System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select cable mechanism length based on disconnect location in enclosure. See Square D instructions for minimum cable bend radius.
4. Space occupied by circuit breaker is calculated by:
 - Overall (Height "X" and Width "Y")
 - Minimum wire bend space (manufacturer specified)

Charts reference Space Occupied by Disconnect Drawing.