

# TYPE 12 FREESTANDING DOUBLE DOOR ENCLOSURE FOR FLANGE-MOUNTED DISCONNECT

Flange-Mounted  
Disconnect  
Enclosures



## Construction:

- 10 gauge steel.
- Seams continuously welded and ground smooth.
- Body stiffeners in larger enclosures for extra rigidity.
- Heavy duty lifting eyes.
- Removable centerpost for easy installation of panel.
- Heavy gauge continuous hinges.
- 3-point latching mechanisms operated by padlocking handle on all doors.
- Print pocket included.
- Oil-resistant gasket.
- Panel supports for panel.
- 3/8-16 threaded collar studs provided for mounting panel.
- Defeater on master door requires a screwdriver to open.
- Mechanical interlock operated by master door prevents slave door from being opened first.

## Finish:

ANSI 61 gray polyester powder outside and inside. Optional panels are painted white polyester powder.

**INDUSTRY  
STANDARDS**

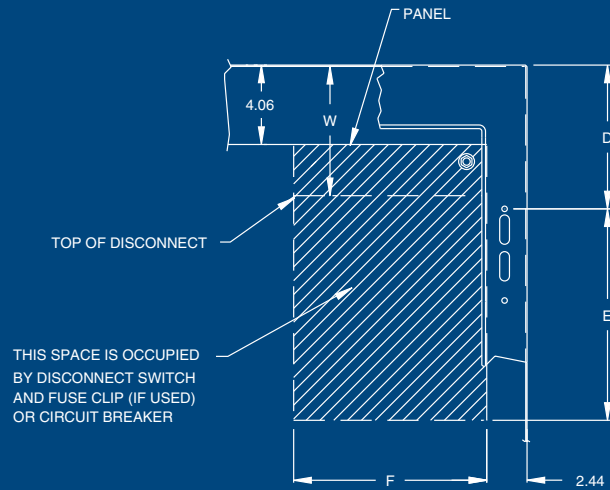
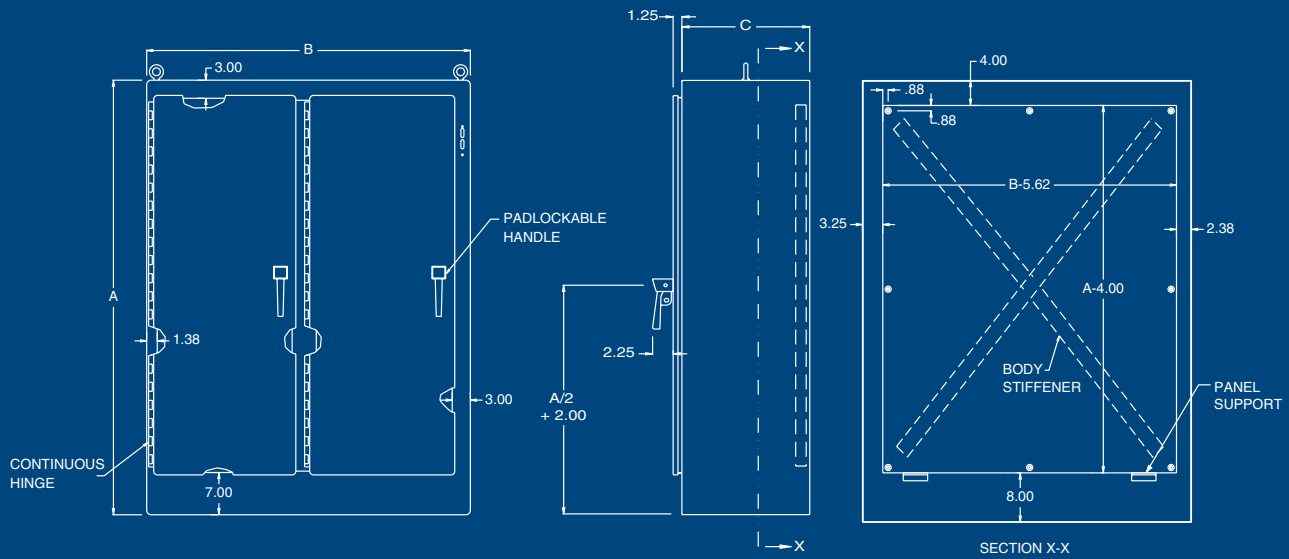
UL 508 Type 12  
NEMA Type 12  
CUL Type 12

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# FREESTANDING DOUBLE DOOR ENCLOSURE FOR FLANGE-MOUNTED DISCONNECT

Flange-Mounted  
Disconnect  
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# TYPE 12 FREESTANDING DOUBLE DOOR ENCLOSURE FOR FLANGE-MOUNTED DISCONNECT

Flange-Mounted  
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Austin Type 12 double door freestanding enclosures for flange-mounted disconnects are designed to house the following safety disconnect equipment:

- **ABB Controls** flange-mounted variable depth operating mechanisms for disconnect switches and circuit breakers.
- **Allen-Bradley** Bulletin 1494F flange-mounted disconnect switches and Bulletin 1494D flange-mounted operators for circuit breakers. Allen-Bradley Bulletin 1494V variable depth flange-operated disconnect switches and circuit breaker mechanisms.
- **Cutler-Hammer/Westinghouse** Type C361 disconnect switches and operator mechanisms. Cutler-Hammer Type C371 circuit breaker operating mechanisms. Also Type SM safety handle mechanisms and Flex Shaft handle operators for circuit breakers.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra Flex cable operators for circuit breakers.
- **I-T-E** Max-Flex flange-mounted variable depth operating handles for disconnect switches and circuit breakers.
- **Square D** disconnect switches and circuit breakers used with Class 9422 flange-mounted variable-depth operating mechanisms or cable mechanisms. *(These enclosures will not receive Class 9422 bracket-mounted disconnect devices, Class 9422TG1 or TG2 devices.)*

Catalog Number	Enclosure Size AxBxC	Panel Catalog Number	Panel Size Ht. X Wd.
AB-725318FSND/DSC	72x53.62x18	AB-7253DSCP	60x46
AB-726518FSND/DSC	72x65.62x18	AB-7265DSCP	60x58
AB-727718FSND/DSC	72x77.62x18	AB-7277DSCP	60x70
AB-847718FSND/DSC	84x77.62x18	AB-8477DSCP	72x70
AB-907718FSND/DSC	90x77.62x18	AB-9077DSCP	78x70
AB-907720FSND/DSC	90x77.62x20	AB-9077DSCP	78x70
AB-727724FSND/DSC	72x77.62x24	AB-7277DSCP	60x70
AB-847724FSND/DSC	84x77.62x24	AB-8477DSCP	72x70
AB-907724FSND/DSC	90x77.62x24	AB-9077DSCP	78x70

# FREESTANDING DOUBLE DOOR ENCLOSURE FOR FLANGE-MOUNTED DISCONNECT

When ordering floor-mounted disconnects from the various manufacturers, be sure to order the necessary items. Each company has a different system, so make sure to order the following items from the disconnect manufacturer.

## Allen-Bradley

When using a Bulletin 1494F flange-mounted disconnect switch, order:

- A disconnect switch
- A fuse block adapter (if required)
- Line and load connector (if required)

When using a Bulletin 1494D flange-mounted operator for a circuit breaker, order:

- A circuit breaker (C-H/Westinghouse)
- A flange-mounted operator mechanism
- A slide mechanism

When using a Bulletin 1494V disconnect switch, order:

- A disconnect switch
- An operating handle
- A connecting rod (long)
- A trailer fuse block kit (if required)
- A fuse clip kit (if required)
- Line and load connectors (if required)

When using a Bulletin 1494V circuit breaker operating mechanism, order:

- A circuit breaker (C-H/Westinghouse)
- A circuit breaker operating mechanism
- An operating handle
- A connecting rod (long)

## ABB Controls

When using a disconnect switch, order:

- A flange-operated switch (fusible or non-fusible)
- A shaft [DSFHS-12 for 12" deep or DSFHS-17 for 18" deep enclosures; in 24" deep enclosures platform must be used with shaft]
- A handle (DSFHN-HS12)

When using a circuit breaker, order:

- A circuit breaker (ABB)
- An operating mechanism
- A shaft [FSH-12 for 12" deep or FHS-17 for 18" deep enclosures; in 24" deep enclosures platform must be used with shaft]
- A handle mechanism (FHN-HS12)

## Cutler-Hammer/Westinghouse

When using a File C361 disconnect switch, order:

- A disconnect switch with an operating mechanism
- An operating handle (C361H1 or C361H3)

When using a File C371 circuit breaker operating mechanism with C-H/Westinghouse circuit breaker, order:

- A circuit breaker
- An operating mechanism
- An operating handle

When using a Type SM handle mechanism, order:

- A circuit breaker
- A Type SM handle mechanism

When using a Flex Shaft handle mechanism, order:

- A circuit breaker
- A complete Flex Shaft handle mechanism

## General Electric

When ordering a disconnect switch, order:

- A disconnect switch (Type QMR or QMW)
- A fuse clip or no-fuse kit
- A flange handle (STDA1 or STDA2)
- A variable depth operating mechanism
- An extended length drive rod (if required)

When using a circuit breaker, order:

- A circuit breaker
- A flange handle (STDA1 or STDA2)
- A variable depth operating mechanism
- An extended length drive rod (if required)

When using a circuit breaker with a Spectra Flex cable operator, order:

- A circuit breaker
- A flange-mounted handle mechanism
- A breaker-mounted mechanism
- An operating cable

## I-T-E Siemens

When using a disconnect switch, order:

- A basic switch (right-hand)
- A fuse or no-fuse kit
- FHOHS flange-mounted handle
- Switch operator
- FHOECO36 cable for 12" deep or FHOECO48 for 18" and 24" deep enclosures

When using a circuit breaker, order:

- A circuit breaker
- Pressure wire connectors
- A flange-mounted handle
- An operating cable [12" deep or 18" deep enclosures accept 36" or 48" cables; 24" deep enclosures require a 48" cable]

## Square D

When using a disconnect switch, order:

- A disconnect switch with operating mechanism
- A universal handle mechanism
- A long operating rod (if required)

When using a circuit breaker, order:

- A circuit breaker
- An operating mechanism
- A universal handle mechanism
- A long operating rod (if required)

When using a Class 9422 Type "T" disconnect switch with a cable mechanism, order:

- A disconnect switch with operating mechanism (Class 9422, Type T)
- A handle mechanism (Class 9422 Type A-1)
- A cable mechanism (Class 9422 CFT-O) 3-, 5-, or 10-foot

When using a circuit breaker with a cable mechanism, order:

- A circuit breaker (Square D)
- A handle mechanism (Class 9422 Type A-1)
- A cable mechanism (Class 9422 CFT-O) 3-, 5-, or 10-foot

# TYPE 12 FLOOR MOUNT & FREESTANDING ENCLOSURE FOR FLANGE-MOUNTED DISCONNECT

Flange-Mounted Disconnect Enclosures

Allen-Bradley 1494F Disconnect Switches						Wire Bend Space Above Disconnect				
						Floor Mount Enclosures Type 12		Freestanding Enclosures Type 12		
						When A = 60 W	When A = 72 W	When A = 72 W	When A = 84 W	When A = 90 W
Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied						
				E	F*					
N30	30A	NO FUSE	NA	4.62	6.50	5.31	10.81	9.31	14.81	17.81
NF30	30A	30A-250V	H,K,R	6.25	6.50	5.31	10.81	9.31	14.81	17.81
NF30	30A	60A-250V	H,K,R	7.25	6.50	5.31	10.81	9.31	14.81	17.81
NF30	30A	30A-600V	H,K,R	9.25	6.50	5.31	10.81	9.31	14.81	17.81
NF30	30A	60A-600V	H,K,R	9.75	6.50	5.31	10.81	9.31	14.81	17.81
NF30	30A	30A-600V	J	6.50	6.50	5.31	10.81	9.31	14.81	17.81
NF30	30A	60A-600V	J	6.62	6.50	5.31	10.81	9.31	14.81	17.81
N60	60A	NO FUSE	NA	4.62	6.50	4.62	10.12	8.62	14.12	17.12
NF60	60A	30A-600V	H,K,R	10.38	6.50	4.62	10.12	8.62	14.12	17.12
NF60	60A	60A-250V	H,K,R	8.38	6.50	4.62	10.12	8.62	14.12	17.12
NF60	60A	100A-250V	H,K,R	10.88	6.50	4.62	10.12	8.62	14.12	17.12
NF60	60A	60A-600V	H,K,R	10.88	6.50	4.62	10.12	8.62	14.12	17.12
NF60	60A	100A-600V	H,K,R	12.88	6.50	4.62	10.12	8.62	14.12	17.12
NF60	60A	60A-600V	J	7.75	6.50	4.62	10.12	8.62	14.12	17.12
NF60	60A	100A-600V	J	9.75	6.50	4.62	10.12	8.62	14.12	17.12
N100	100A	NO FUSE	NA	4.62	7.25	NA	8.25	6.75	12.25	15.25
NF100	100A	100A-250V	H,K,R	11.38	7.38	NA	8.25	6.75	12.25	15.25
NF100	100A	200A-250V	H,K,R	12.25	7.62	NA	8.25	6.75	12.25	15.25
NF100	100A	100A-600V	H,K,R	13.38	7.50	NA	8.25	6.75	12.25	15.25
NF100	100A	200A-600V	H,K,R	14.75	7.75	NA	8.25	6.75	12.25	15.25
NF100	100A	100A-600V	J	10.12	7.38	NA	8.25	6.75	12.25	15.25
NF100	100A	200A-600V	J	10.88	7.50	NA	8.25	6.75	12.25	15.25
N200	200A	NO FUSE	NA	7.12	10.38	NA	6.62	5.12	10.62	13.62
NF200	200A	200A-250V	H,K,R	15.00	10.38	NA	6.62	5.12	10.62	13.62
NF200	200A	400A-250V	H,K,R	16.56	10.75	NA	6.62	5.12	10.62	13.62
NF200	200A	200A-600V	H,K,R	17.56	10.38	NA	6.62	5.12	10.62	13.62
NF200	200A	400A-600V	H,K,R	19.56	11.00	NA	6.62	5.12	10.62	13.62
NF200	200A	200A-600V	J	13.69	10.38	NA	6.62	5.12	10.62	13.62
NF200	200A	400A-600V	J	15.00	10.62	NA	6.62	5.12	10.62	13.62

\*The "F" dimensions do not include space for auxiliary switches. See Allen-Bradley instructions for additional space required.

# DISCONNECT WIRING SPACE INFORMATION

Allen-Bradley Bulletin 1494D Operators for Circuit Breakers						Wire Bend Space Above Disconnect				
Type Number	Frame Rating	Circuit Breaker Type Frame Size	Space Occupied		Floor Mount Enclosures Type 12		Freestanding Enclosures Type 12			
			E	F*	When A = 60	When A = 72	When A = 72	When A = 84	When A = 90	
					W	W	W	W	W	
N4/N40	150A	Westinghouse EHD, FD, FDB, FDC, HFD, HMCP	5.81	4.31	5.25	10.75	9.25	14.75	17.75	
N5/N55	225A	General Electric TFC, TFK, THFK	8.81	4.50	4.44	9.94	8.44	13.94	16.94	
N5/N50	250A	Westinghouse JD, JDB, JDC, HJD, HMCP	8.81	4.50	4.44	9.84	8.44	13.94	16.94	
N5/N60	400A	Westinghouse KD, KDB, KDC, HKD, HMCP	8.81	5.62	NA	10.00	8.50	14.00	17.00	

\*The "F" dimensions do not include space for auxiliary switches. See Allen-Bradley for additional space required.

For Floor Mount Disconnects:  
 "D" = 5.88 when "A" = 60  
 "D" = 11.38 when "A" = 72 (except for 200A switches)  
 "D" = 10.06 when "A" = 72 (for 200A switches)

For Freestanding Disconnects:  
 "D" = 9.88 when "A" = 72 (except for 200A switches)  
 "D" = 8.56 when "A" = 72 (for 200 A switches)  
 "D" = 15.38 when "A" = 84 (except for 200A switches)  
 "D" = 14.06 when "A" = 84 (for 200A switches)  
 "D" = 18.38 when "A" = 90 (except for 200A switches)  
 "D" = 17.06 when "A" = 90 (for 200A switches)

Allen-Bradley 1494V Disconnect Switches						Wire Bend Space Above Disconnect				
Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		Floor Mount Enclosures Type 12		Freestanding Enclosures Type 12		
				E	F*	When A = 60	When A = 72	When A = 72	When A = 84	When A = 90
						W	W	W	W	W
DS30	30A	NO FUSE	NA	3.88	6.75	6.00	11.50	10.00	15.50	18.50
DS30	30A	30A-250V	H,K,R	5.25	6.75	6.00	11.50	10.00	15.50	18.50
DS30	30A	30A-600V	H,K,R	8.00	6.75	6.00	11.50	10.00	15.50	18.50
DS30	30A	30A-600V	J	5.25	6.75	6.00	11.50	10.00	15.50	18.50
DS30	30A	60A-250V	H,K	6.00	6.75	6.00	11.50	10.00	15.50	18.50
DS30	30A	60A-600V	H,K	8.50	6.75	6.00	11.50	10.00	15.50	18.50
DS30	30A	60A-600V	J	5.38	6.75	6.00	11.50	10.00	15.50	18.50
DS60	60A	NO FUSE	NA	3.88	6.75	5.81	11.31	9.81	15.31	18.31
DS60	60A	60A-250V	H,K,R	6.00	6.75	5.81	11.31	9.81	15.31	18.31
DS60	60A	60A-600V	H,K,R	8.50	6.75	5.81	11.31	9.81	15.31	18.31
DS60	60A	60A-600V	J	5.38	6.75	5.81	11.31	9.81	15.31	18.31
DS60	60A	30A-600V	H,K,R	8.00	6.75	5.81	11.31	9.81	15.31	18.31
DS60	60A	100A-250V	H,K	8.50	6.75	5.81	11.31	9.81	15.31	18.31
DS60	60A	100A-600V	H,K	10.50	6.75	5.81	11.31	9.81	15.31	18.31
DS60	60A	100A-600V	J	7.25	6.75	5.81	11.31	9.81	15.31	18.31
DS100**	100A	NO FUSE	NA	3.88	6.75	5.81	11.31	9.81	15.31	18.31
DS100**	100A	100A-250V	H,K,R	8.12	6.75	5.81	11.31	9.81	15.31	18.31
DS100**	100A	100A-600V	H,K,R	10.12	6.75	5.81	11.31	9.81	15.31	18.31
DS100**	100A	100A-600V	J	6.80	6.75	5.81	11.31	9.81	15.31	18.31
DS100**	100A	60A-600V	H,K,R	10.12	6.75	5.81	11.31	9.81	15.31	18.31
DS100**	100A	60A-600V	J	8.88	6.75	5.81	11.31	9.81	15.31	18.31
DS200**	200A	NO FUSE	NA	4.75	8.00	4.34	9.84	8.34	13.84	16.84
DS200**	200A	200A-250V	H,K,R	10.88	8.00	4.34	9.84	8.34	13.84	16.84
DS200**	200A	200A-600V	H,K,R	13.88	8.00	4.34	9.84	8.34	13.84	16.84
DS200**	200A	200A-600V	J	9.50	8.00	4.34	9.84	8.34	13.84	16.84
DS200**	200A	100A-600V	H,K,R	12.00	8.00	4.34	9.84	8.34	13.84	16.84
DS200**	200A	100A-600V	J	8.75	8.00	4.34	9.84	8.34	13.84	16.84

\*The "F" dimensions do not include space for auxiliary switches. See Allen-Bradley instructions for additional space required.  
 \*\*Series B

# TYPE 12 FLOOR MOUNT & FREESTANDING ENCLOSURE FOR FLANGE-MOUNTED DISCONNECT

Flange-Mounted Disconnect Enclosures

Allen-Bradley Bulletin 1494V Operators for Circuit Breakers						Wire Bend Space Above Disconnect				
						Floor Mount Enclosures Type 12		Freestanding Enclosures Type 12		
						Type Number	Frame Rating	Circuit Breaker Type Frame Size	Space Occupied	
E	F*	W	W	W	W				W	
M40	15A-150A	Westinghouse EHD, FD, FDB, FDC, HFD, HMCP	5.00	4.62	7.25	12.75	11.25	16.75	19.75	
M50	70A-250A	Westinghouse JD, JDB, JDC, HJD, HMCP	9.75	4.88	6.81	12.31	10.81	16.31	19.31	
M60	100A-400A	Westinghouse KD, KDB, KDC, HKD, HMCP	9.69	6.25	NA	12.12	10.62	16.12	19.12	

\*The "F" dimensions do not include space for auxiliary switches. See Allen-Bradley instructions for additional space required.

For Floor Mount Disconnects: "D" = 7.88 when "A" = 60  
"D" = 13.38 when "A" = 72

For Freestanding Disconnects: "D" = 11.88 when "A" = 72  
"D" = 17.38 when "A" = 84  
"D" = 20.38 when "A" = 90

ABB Controls Disconnect Switches with Flange-Mounted Operators						Wire Bend Space Above Disconnect				
						Double Door Enclosures Type 12		Freestanding Enclosures Type 12		
						Switch Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied
E	F	W	W	W	W					W
OETL-NF30-F	40A	NO FUSE	NA	4.45	3.91	9.53	15.03	13.53	19.03	22.03
OETL-NF60-F	80A	NO FUSE	NA	4.86	3.91	9.34	14.84	13.34	18.84	21.84
OETL-NF100-F	100A	NO FUSE	NA	4.86	4.91	8.78	17.28	15.78	21.28	24.28
OETL-NF175-F	175A	NO FUSE	NA	7.30	6.62	6.53	12.03	10.53	16.03	19.03
OETL-NF200-F	200A	NO FUSE	NA	7.36	7.41	6.53	12.03	10.53	16.06	19.03
OESA-F30J6-F	30A	30A-600V	J	4.28	6.70	7.85	13.36	11.86	17.36	20.36
OESA-F60J6-F	60A	60A-600V	J	4.28	6.39	7.85	13.36	11.86	17.36	20.36
OESA-F100J6-F	100A	100A-600V	J	6.54	7.78	7.42	12.92	11.42	16.92	19.92

# DISCONNECT WIRING SPACE INFORMATION

Flange-Mounted Disconnect Enclosures

ABB Controls Circuit Breakers with Flange-Mounted Operators					Wire Bend Space Above Disconnect				
					Floor Mount Enclosures Type 12		Freestanding Enclosures Type 12		
					Mechanism	Amp Rating	Frame Type	Space Occupied	
E	F	W	W	W				W	W
FHD-M	150A	D	6.92	4.06	8.42	13.92	12.42	17.92	20.92
FHF-M	150A-225A	E/Q	5.98	4.55	6.97	12.47	10.97	16.47	19.47
FHF-M	225A	F	7.44	4.55	6.97	12.47	10.97	16.47	19.47
FHJ-M	400A	J	9.71	5.75	5.02	10.52	9.02	14.52	17.52
FHM-M	600A	L	8.28	11.39	NA	10.03	8.53	14.03	17.03
FHM-M	800A	M	10.11	11.39	NA	9.62	8.12	13.62	16.62
FHN-M	1200A	N	12.18	11.39	NA	NA	NA	9.81	12.81

For Floor Mount Disconnects: "D" = 7.88 when "A" = 60  
"D" = 13.38 when "A" = 72

For Freestanding Disconnects: "D" = 11.88 when "A" = 72  
"D" = 17.38 when "A" = 84  
"D" = 20.38 when "A" = 90

Cutler-Hammer C361 Disconnect Switches					Wire Bend Space Above Disconnect					
					Double Door Enclosures Type 12		Freestanding Enclosures Type 12			
					Switch Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied	
E	F	W	W	W					W	W
C361NC	30A	NO FUSE	NA	5.75	7.55	6.50	12.00	10.50	16.00	19.00
C361SC21	30A	30A-250V	H,K,R	8.38	7.55	6.50	12.00	10.50	16.00	19.00
C361SC61	30A	60A-250V	H,K,R	8.38	7.55	6.50	12.00	10.50	16.00	19.00
C361SC61	30A	30A-600V	H,J,K,R	8.38	7.55	6.50	12.00	10.50	16.00	19.00
C361ND	60A	NO FUSE	NA	5.75	7.55	6.50	12.00	10.50	16.00	19.00
C361SD22	60A	60A-250V	H,K,R	8.38	7.55	6.50	12.00	10.50	16.00	19.00
C361SD22	60A	30A-600V	J	8.38	7.55	6.50	12.00	10.50	16.00	19.00
C361SD62	60A	60A-600V	H,K,R	8.38	7.55	6.50	12.00	10.50	16.00	19.00
C361SD62	60A	60A-600V	J	8.38	7.55	6.50	12.00	10.50	16.00	19.00
C361NE	100A	NO FUSE	NA	5.56	9.07	6.06	11.56	10.06	15.56	18.56
C361SE263	100A	100A-250V	H,K,R	10.31	9.07	6.06	11.56	10.06	15.56	18.56
C361SE263	100A	100A-600V	H,K,R	10.31	9.07	6.06	11.56	10.06	15.56	18.56
C361SE263	100A	100A-600V	J	10.31	9.07	6.06	11.56	10.06	15.56	18.56
C361NF	200A	NO FUSE	NA	13.06	10.12	4.06	9.62	8.06	13.62	16.62
C361SF264	200A	200A-250V	H,K,R	13.06	10.12	4.06	9.62	8.06	13.62	16.62
C361SF264	200A	200A-600V	H,J,K,R	13.06	10.12	4.06	9.62	8.06	13.62	16.62

# TYPE 12 FLOOR MOUNT & FREESTANDING ENCLOSURE FOR FLANGE-MOUNTED DISCONNECT

Flange-Mounted Disconnect Enclosures

Cutler-Hammer C371 Circuit Breaker Operators for C-H / Westinghouse Circuit Breakers					Wire Bend Space Above Disconnect						
					Space Occupied		Floor Mount Enclosures Type 12		Freestanding Enclosures Type 12		
							When A = 60 W	When A = 72 W	When A = 72 W	When A = 84 W	When A = 90 W
Mechanism	Max Amp Rating	Frame Type	E	F							
C371E	225A	F Frame: EHD, FDB, FD, HFD, FDC	6.00	5.62	7.62	13.12	11.62	17.12	20.12		
C371E	150A	F Frame: HMCP	6.00	5.62	7.62	13.12	11.62	17.12	20.12		
C371F	250A	J Frame: JDB, JD, HJD, JDC	8.94	8.12	7.50*	13.00	11.44	16.94	20.00		
C371F	250A	J Frame: HCMP	10.94	8.12	7.50*	13.00	11.44	16.94	20.00		
C371F	400A	K Frame: DK, KDB, KD, HKD	9.75	8.12	7.00*	12.50	11.00	16.50	19.50		
C371F	400A	K Frame: HMCP	9.75	8.12	7.00*	12.50	11.00	16.50	19.50		
C371G	600A	L Frame: LD, HLD, LDC	8.44	12.00	NA	10.88**	9.38	14.88	17.88		
C371G	600A	L Frame: HMCP	8.44	12.00	NA	10.88**	9.38	14.88	17.88		
C371K	800A	M Frame: MD, MDS	10.25	12.00	NA	NA	NA	11.31	14.31		
C371K	1200A	N Frame: ND, HND, NDC	10.25	12.00	NA	NA	NA	11.31***	14.31		

\*Available wire bend space "W" does not allow cable sizes larger than 4/0 AWG in a 60" tall enclosure.  
 \*\*Available wire bend space "W" does not allow cable sizes larger than 300 MCM.  
 \*\*\*Available wire bend space "W" does not allow cable sizes larger than 350 MCM in a 90" tall enclosure when using 4 cable per terminal.  
 See **National Electrical Code 1999** table 373-6(b) for more information. Available wire bend space "W" is insufficient for use with Westinghouse breakers equipped with TA1201NB1 terminals.

For Floor Mount Disconnects: "D" = 7.88 when "A" = 60  
 "D" = 13.38 when "A" = 72

For Freestanding Disconnects: "D" = 11.88 when "A" = 72  
 "D" = 17.38 when "A" = 84  
 "D" = 20.38 when "A" = 90

Cutler-Hammer Flex Shaft Operator Mechanisms for C-H/Westinghouse Circuit Breakers				
Complete Operator Mechanism	Amp Rating	Frame Type	Breaker Height	Breaker Width
F1S03	225A	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
F4S03	600A	L-Frame/LD, HLD, LDC	10.75	8.25
F4S03	600A	L-Frame HMCP	12.50	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

-Catalog numbers for complete mechanisms include a flange-mounted handle, flexible shaft and circuit breaker mechanism.  
 -The last digit of the catalog number denotes the length of shaft (F1S03 = 3 foot shaft). The F, J, K frame Flex Shafts are available in 3-foot to 10-foot lengths. The L, N, R frame Flex Shafts are available in 4-foot to 6-foot lengths.

**Space Occupied by Disconnect**

\*The Flex Shaft system allows the circuit breaker to be positioned independent from the flange-mounted handle mechanism.  
 \*Refer to **National Electrical Code 1999**, article 430-10(b) for wiring space "W" required for line side conductors.  
 \*Choose the length of shaft based on placement of the circuit breaker in the enclosure ensuring a 4" minimum bending radius for the Flex Shaft.  
 \*Space occupied by circuit breaker is determined by overall height "X", width "Y", wire bend space "W" and location "F" as selected from right to left.

# DISCONNECT WIRING SPACE INFORMATION

Flange-Mounted Disconnect Enclosures

Wire Bend Space Above Disconnect									
Cutler-Hammer Type SM Safety Handle Mechanisms for C-H/Westinghouse Circuit Breakers					Floor Mount Enclosures		Freestanding Enclosures		
					Type 12		Type 12		
					When A = 60	When A = 72	When A = 72	When A = 84	When A = 90
Handle Mechanism	Use with Circuit Breaker	Space Occupied		W	W	W	W	W	
		E	F						
SM101PR	FB Tri-Pac	8.00	5.38	6.50	12.00	10.50	16.00	19.00	
SM150R	F Frame EHD, FDB, FD, HFD, FDC	8.00	5.38	6.50	12.00	10.50	16.00	19.00	
SM250JR	J Frame JDB, JD, HJD, JDC	8.50	7.50	NA	9.50	8.00	13.50	16.50	
SM400KR	K Frame DK, KDB, KD, HKD	9.06	7.50	NA	9.12	7.62	13.12	16.12	
SM400PR	LA Tri-Pac	14.44	9.75	NA	9.25	7.75	13.25	16.25	
SM600R	L Frame LD, HLD, LDC	8.81	7.62	NA	NA	NA	12.38	15.38	
SM800R	M Frame MD, MDS, HMD	10.68	9.75	NA	NA	NA	9.66	12.66	
SM8000PR	NB Tri-Pac	16.81	9.75	NA	NA	NA	9.66	12.66	
For Floor Mount Disconnects:		"D" = 7.31 when "A" = 60 for up to type SM200 "D" = 12.81 when "A" = 72 for up to type SM200 "D" = 6.88 when "A" = 60 for type SM200 and larger "D" = 12.38 when "A" = 72 for type SM200 and larger							
For Freestanding Disconnects:		"D" = 11.31 when "A" = 72 for up to type SM200 "D" = 16.81 when "A" = 84 for up to type SM200 "D" = 19.81 when "A" = 90 for up to type SM200 "D" = 10.88 when "A" = 72 for type SM200 and larger "D" = 16.38 when "A" = 84 for type SM200 and larger "D" = 19.38 when "A" = 90 for type SM200 and larger							

Wire Bend Space Above Disconnect										
General Electric Type STDA Disconnect Switch Operators					Double Door Enclosures		Freestanding Enclosures			
					Type 12		Type 12			
					When A = 60	When A = 72	When A = 72	When A = 84	When A = 90	
Mechanism	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		W	W	W	W	
				E	F					
TD0M1A	30A	NO FUSE	NA	6.88	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1A	30A	30A-250V	H,R	6.88	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	30A	30A-600V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	30A	60A-250V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	30A	60A-600V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1A	60A	NO FUSE	NA	6.88	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	60A	60A-250V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	60A	60A-600V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	60A	100A-250V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	60A	100A-600V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1A	100A	NO FUSE	NA	6.88	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	100A	100A-250V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	100A	100A-600V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	100A	200A-250V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M1B	100A	200A-600V	H,R	11.50	5.38	8.38	13.88	12.38	17.88	20.88
TD0M2	200A	NO FUSE	NA	7.00	9.25	5.69	11.19	9.69	15.19	18.19
TD0M2	200A	200A-250V	H,R	15.38	9.25	5.69	11.19	9.69	15.19	18.19
TD0M2	200A	200A-600V	H,R	15.38	9.25	5.69	11.19	9.69	15.19	18.19

# TYPE 12 FLOOR MOUNT & FREESTANDING ENCLOSURE FOR FLANGE-MOUNTED DISCONNECT

Flange-Mounted Disconnect Enclosures

General Electric Type STDA Operators for Circuit Breakers					Wire Bend Space Above Disconnect			
					Floor Mount Enclosures Type 12		Freestanding Enc Type 12	
					When A = 60 W	When A = 72 W	When A = 72 W	When A = 84 W
Mechanism	Amp Rating	Frame Type	Space Occupied					
			E	F				
SD0M1A	150A	TEB, TED, THED	6.88	5.38	7.24	12.74	11.24	16.74
SD0M1A	150A	TEC	6.88	5.38	7.24	12.74	11.24	16.74
TD0M1B	150A	TB1	11.50	5.38	7.24	12.74	11.24	16.74
TD0M1B	150A	TEC, TECL	11.50	5.38	7.24	12.74	11.24	16.74
TD0M1C	150A	TEL	6.88	5.38	7.24	12.74	11.24	16.74
TD0M1D	150A	THLC1	6.88	5.38	5.87	11.37	9.87	15.37
TD0M3	225A	TFJ	10.38	5.88	6.81	12.31	10.81	16.31
TD0M3	225A	TFK, THFK, TFL	10.38	5.88	6.81	12.31	10.81	16.31
TD0M4	400A	TJJ, TJK4, THJK4, TJL4V	8.25	9.50	NA	11.41	9.91	15.41
TD0M4	600A	TJK6, THJK6, TJ4V, TJL4V	8.25	9.50	NA	11.41	9.91	15.41
TD0M5	400A	TB4, TJH6S	14.25	9.50	NA	11.41	9.91	15.41
TD0M6	225A	TLB2, THLC2	11.75	9.50	NA	10.85	NA	14.85
TD0M6	400A	TLB4, THLC4	11.75	9.50	NA	9.47	NA	13.47
TD0M6	800A-1200A	TKNA, THKMA, TK4V	11.75	9.50	NA	NA	NA	NA
TD0M6	1200A	TK4V, THK4V	11.75	9.50	NA	NA	NA	NA
TD0M7	600A	TB6	18.12	9.50	NA	NA	NA	11.75
TD0M7	800A	TB8	18.12	9.50	NA	NA	NA	11.75
TD0M7	1200A	TKL12S	18.12	9.50	NA	NA	NA	NA
SD0M1A	150A	SPECTRA SE150	6.88	5.38	7.24	12.74	11.24	16.74
SD0M3	250A	SPECTRA SF250	10.38	5.88	6.81	11.38	10.81	16.31
SD0M4	600A	SPECTRA SG600	10.00	7.12	NA	8.68	NA	12.68

For Floor Mount Disconnects: "D" = 7.88 when "A" = 60  
"D" = 13.38 when "A" = 72

For Freestanding Disconnects: "D" = 11.88 when "A" = 72  
"D" = 17.38 when "A" = 84  
"D" = 20.38 when "A" = 90

General Electric Circuit Breakers with Spectra Flex Cable Operators			
Frame Size	Max Amp Rating	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
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

See enclosure size tables for enclosures that will accept these devices

Frame Size	Breaker Mechanism	Flange Mounting Handle	Operating Cable*
E150	SC0M1A	SCH1	SC3L
SE150/SF250	SC0M1EF	SCH1	SC3L
SG600	SC0M1G	SCH1	SC3L
SK1200	SC0M1K	SCH3K	SC3H

\*Operating cables are available in 3-foot to 10-foot lengths. (The number 3 in the catalog number denotes 3-foot cable).

**Space Occupied by Circuit Breaker**

\*The General Electric Spectra-Flex cable operators allow a Circuit Breaker to be positioned independent from the flange-mounted handle mechanism.  
\*Refer to **National Electrical Code 1999** article 430-10(b) for wiring space "W" for line side conductors.  
\*Choose the operating cable length based on placement of circuit breaker in the enclosure ensuring a 3" minimum bending radius for the cable.  
\*Space occupied by circuit breaker is determined by overall circuit breaker size ("X" height and "Y" width) plus "W" wire bend space and location "F" (from right to left) as selected.

For Floor Mount Disconnects: "D" = 7.88 when "A" = 60  
"D" = 13.38 when "A" = 72

For Freestanding Disconnects: "D" = 11.88 when "A" = 72  
"D" = 17.38 when "A" = 84  
"D" = 20.38 when "A" = 90

# DISCONNECT WIRING SPACE INFORMATION

**I-T-E Disconnect Switches for Max-Flex Operators**

Switch	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
MCS603R	30A	NO FUSE	NA	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	NA	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	NA	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	NA	9.02	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

See enclosure size table for enclosures that accept these devices

Floor Mount enclosures that are 24" deep require a 48" Max-Flex cable (minimum)

**I-T-E Circuit Breakers with Max-Flex Operators**

Complete (1) (2) Operator Mechanism	Circuit Breaker Frame	Maximum Amp Rating	Circuit Breaker Height "X"	Circuit Breaker Width "Y"	Circuit Breaker Type
FH0E036	ED	125A	6.34	3.00	ED2, ED4, ED6, HED4, HED6
FH0E36	CED	125A	9.58	3.00	CED6
FH0F036	FD	250A	9.50	4.50	FXD6-A, FD6-A, HFD6, FXD6-ETJ, HHFD6, HHFXD6
FH0J036	CFD	250A	14.25	4.50	CFD6, CFD6-ETI
FH0J036	JD	400A	11.00	7.50	JXD2, JXD6, JD6, HJD6, HHJD6, HHJXD6, JXD6-ETI
FH0J036	CJD	400A	17.86	7.50	CJD6, CJD6-ETI
FH0J036	LD	600A	11.00	7.50	LXD6, LD6, HLD6, HHLXD6, HHLXD6, LXD6-ETI
FH0J036	CLD	600A	17.86	7.50	CLD6, CLD6-ETI
FH0LM036	LMD	800A	16.00	9.00	LMD6, LMXD6, HLMXD6, HLMXD6, LMXD6-ETI

Mechanisms and Circuit Breakers listed above will fit any enclosure

(1)- The last 3 digits of operator mechanism number indicate cable length in inches. 48" cables are available for ED, FD, JD/LD operators, and 60" cables for MD/ND, PD/RD operators.

(2)- For Type 4 applications order handle, cable and circuit breaker operator separately

For Floor Mount Disconnects: "D" = 7.88 when "A" = 60  
"D" = 13.38 when "A" = 72

For Freestanding Disconnects: "D" = 11.88 when "A" = 72  
"D" = 17.38 when "A" = 84  
"D" = 20.38 when "A" = 90

**Space Occupied by Disconnect**

\*The I-T-E Max-Flex cable system allows the disconnect to be positioned independent from the flange-mounted handle operator.

\*Refer to **National Electrical Code 1999** article 430-10(b) for wiring space "W" required for line side conductors.

\*Refer to Siemens I-T-E installation instructions for limits on disconnect location when using a 36" or 48" Max-Flex cables.

\*Space occupied by disconnect is determined by overall disconnect height "X", width "Y", wire bend space "W", and location "F" from right to left as selected.

# TYPE 12 FLOOR MOUNT & FREESTANDING ENCLOSURE FOR FLANGE-MOUNTED DISCONNECT

Flange-Mounted Disconnect Enclosures

Wire Bend Space Above Disconnect										
Square D Class 9422 Variable Depth Disconnects Switches						Double Door Enclosures		Freestanding Enclosures		
						Type 12		Type 12		
						When A = 60 W	When A = 72 W	When A = 72 W	When A = 84 W	When A = 90 W
Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied						
				E	F					
TCN-30	30A	NO FUSE	NA	3.80	6.97	6.75	10.75	12.25	16.25	19.25
TCF-30	30A	30A-250V	H,K,R	5.53	6.97	6.75	10.75	12.25	16.25	19.25
TCF-33	30A	30A-600V	H,K,R	8.15	6.97	6.75	10.75	12.25	16.25	19.25
TCF-33	30A	60A-250V	H,K,R	6.15	6.97	6.75	10.75	12.25	16.25	19.25
TCF-33	30A	30A-600V	J	5.53	6.97	6.75	10.75	12.25	16.25	19.25
TDN-60	60A	NO FUSE	NA	3.80	6.97	6.75	10.75	12.25	16.25	19.25
TDF-60	60A	30A-600V	H,K,R	8.15	6.97	6.75	10.75	12.25	16.25	19.25
TDF-60	60A	60A-250V	H,K,R	6.15	6.97	6.75	10.75	12.25	16.25	19.25
TDF-63	60A	60A-600V	H,K,R	8.65	6.97	6.75	10.75	12.25	16.25	19.25
TDF-63	60A	60A-600V	J	5.53	6.97	6.75	10.75	12.25	16.25	19.25
TEN-10	100A	NO FUSE	NA	3.80	6.97	6.62	10.62	12.13	16.13	19.13
TEF-10	100A	100A-250V	H,K,R	8.25	6.97	6.62	10.62	12.13	16.13	19.13
TEF-10	100A	100A-600V	H,K,R	10.25	6.97	6.62	10.62	12.13	16.13	19.13
TEF-10	100A	100A-600V	J	7.05	6.97	6.62	10.62	12.13	16.13	19.13
TEF-13	100A	200A-600V	J	NA	NA	6.62	10.62	12.13	16.13	19.13
TC-1	30A	NO FUSE	NA	5.75	6.12	5.88	9.88	11.38	15.38	18.38
TC-2	30A	30A-250V	H,K,R	5.75	6.12	5.88	9.88	11.38	15.38	18.38
TC-3	30A	30A-600V	H,K,R	7.75	6.12	5.88	9.88	11.38	15.38	18.38
TC-3	30A	60A-250V	H,K,R	5.88	6.12	5.88	9.88	11.38	15.38	18.38
TC-3	30A	30A-600V	J	5.75	6.12	5.88	9.88	11.38	15.38	18.38
TD-1	60A	NO FUSE	NA	6.38	6.75	6.75	10.75	12.25	16.25	19.25
TD-2	60A	30A-600V	H,K,R	8.50	6.75	6.75	10.75	12.25	16.25	19.25
TD-2	60A	60A-250V	H,K,R	6.50	6.75	6.75	10.75	12.25	16.25	19.25
TD-3	60A	60A-600V	H,K,R	9.00	6.75	6.75	10.75	12.25	16.25	19.25
TD-3	60A	60A-600V	J	6.38	6.75	6.75	10.75	12.25	16.25	19.25
TE-1	100A	NO FUSE	NA	4.75	8.50	6.50	10.50	12.00	16.00	19.00
TE-2	100A	100A-250V	H,K,R	7.50	8.50	6.50	10.50	12.00	16.00	19.00
TE-2	100A	100A-600V	H,K,R	9.50	8.50	6.50	10.50	12.00	16.00	19.00
TE-2	100A	100A-600V	J	6.25	8.50	6.50	10.50	12.00	16.00	19.00
TE-3	100A	200A-600V	J	13.75	8.50	6.50	10.50	12.00	16.00	19.00
TF-1	200A	NO FUSE	NA	5.50	11.75	5.12	9.12	10.62	14.62	17.62
TF-2	200A	200A-250V	H,K,R	11.50	11.75	5.12	9.12	10.62	14.62	17.62
TF-2	200A	200A-600V	H,K,R	14.00	11.75	5.12	9.12	10.62	14.62	17.62
TF-2	200A	200A-600V	J	10.12	11.75	5.12	9.12	10.62	14.62	17.62
TF-3	200A	400A-600V	J	14.50	11.75	5.12	9.12	10.62	14.62	17.62

Wire Bend Space Above Disconnect										
Square D Class 9422 Variable Depth Operators-Circuit Breakers						Double Door Enclosures		Freestanding Enclosures		
						Type 12		Type 12		
						When A = 60 W	When A = 72 W	When A = 72 W	When A = 84 W	When A = 90 W
Type Number	Amp Rating	Fuse Clip	Space Occupied							
			E	F						
RG-1	75A	GJL	3.53	3.87	6.69	12.19	10.69	16.19	19.19	
RG-1	100A	GJL	3.53	3.87	6.69	12.19	10.69	16.19	19.19	
RN-1	100A	FAL, FHL	5.12	5.38	6.88	12.38	10.88	16.38	19.38	
RP-1	250A	KAL, KHL	7.12	5.75	7.56	13.06	11.56	17.06	20.06	
RR-1	400A	LAL, LHL, Q4L	7.62	8.88	NA	8.75	NA	12.75	15.75	
RT-1	800A	MEL, MXL	9.12	12.00	NA	NA	NA	12.62	15.62	
RT-1	1000A	MAL, MHL	9.12	12.00	NA	NA	NA	12.62	15.62	

For Floor Mount Disconnects: "D" = 7.88 when "A" = 60  
"D" = 13.38 when "A" = 72

For Freestanding Disconnects: "D" = 11.88 when "A" = 72  
"D" = 17.38 when "A" = 84  
"D" = 20.38 when "A" = 90

# DISCONNECT WIRING SPACE INFORMATION

## Square D Class 9422 Disconnect Switches used with Cable Mechanism 9422-CFT30\* and 9422A-1 Handle Mechanism

Switch	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
TCN-30	30A	NO FUSE	NA	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	NA	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	7.50	6.20
TEN-10	100A	NO FUSE	NA	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

See enclosure size table for enclosures that accept these devices.

\*Use switches listed above with appropriate cable mechanism and 9422-A1 handle mechanism.  
Cable operators are available in 3-foot, 5-foot and 10-foot lengths. Numbers shown (30) are for 3-foot cables

## Square D Class 9422 Cable Mechanisms for Circuit Breakers

Cable Type* Switch	Amp Rating	Frame Type	Circuit Breaker Height "X"
9422 CGJ30	75A	GJL	4.75
9422 CEJ30	100A	GJL	4.75
9422 CFA30	100A	FAL, FHL	6.00
9422 CKA30	250A	KAL, KHL	8.00
9422 CLA30	400A	LAL, LHL, Q4L	11.00

See enclosure size table for enclosures that accept these devices.

Use cable mechanism with appropriate circuit breaker and 9422-A1 handle mechanism.  
\*Cable operators are available in 3-foot, 5-foot and 10-foot lengths. Numbers shown (30) are for 3-foot cables.

### Space Occupied by Disconnect Switch or Circuit Breaker

- Space D cable mechanisms allow disconnect device to be positioned independent from the flange-mounted handle mechanism.
- Refer to **National Electrical Code 1999** article 430-10(b) for wiring space "W" required for line side conductors.
- Choose cable mechanism length based on placement of disconnect in enclosure. See Square D Instruction Bulletin for minimum bend radius for cable.
- Space occupied by disconnect is determined by overall disconnect ("X" height and "Y" width) plus "W" wire bend space and location "F" (from right to left) as selected.