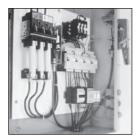
Selection

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

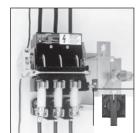
- Compact Size
- Visible Blade Contacts
- Rugged Construction with a short circuit current rating of 10,000 amps with Class H or 200,000 amps at 600V maximum AC, when fused with Class R or Class J fuses



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
- Field Installable Auxiliary Contacts
- Flexible Fuse Class Configurations
- Flange mounted handles meet NFPA79 requirements



Type MCS Disconnect Switch with rotary handle

18/26 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 I	Rating, 3 Pha	se ⁴			
		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	Switch	14.4	Standard Cu Only ^②		0.11	0.1	0.11	Lug
Ampere Rating	Catalog Number	Kit Description	Catalog Number	Catalog Number	Catalog Number ①	Catalog Number ①	Catalog Number ^①	Wire Size
		No Fuse	TMK606	_	_		_	
	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	I-	_	FCK606	FCJK606	FCRK606	
	MCS606R or MCS606L	No Fuse	TMK606	_	_	T_	_	
		60A, 250V	_	_	FCK206	_	FCRK206	#14 to
60		60A, 600V	_	_	FCK606	FCJK606	FCRK606	#4 AWG
		100A, 250V	_	_	OFCK661▲	OFCK661▲	3	Cu/AI
		100A, 600V	_	_	OFCK661▲	OFCK661▲	3	
		No Fuse	TMK610	TMK610C	_	<u> </u>	_	
	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▲	_	 	_	#6 to
200	or	200A, 250V	_	_	FCK620	FCK620	3	300 kcmil
	MCS620L	200A, 600V	I_	l_	FCK620	FCK620	3	Cu/Al

[▲] Built to order. Allow 6–8 weeks for delivery.
⑤For "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

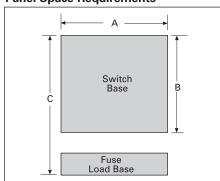
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Switch	Complete Handle Mechanism	Handle Only	Switch Operator Only	Cable Only®				
Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number				
MCS603R	FHOS06036R	FHOHS	FHOS06R	FHOEC036				
MCS603L	FHOS06036L	FHOHS	FHOS06L	FHOEC036				
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	6.13	5.52	8.11	H, K, R
	30A/600V	6.13	5.52	10.11	H, K, R
	30A/600V	6.13	5.52	8.48	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	7.38	7.59	11.85	H, K, R
	100A/600V	7.38	7.59	13.85	H, K, R
	100A/600V	7.38	7.59	10.6	J
MCS620	200A/240V	9.17	9.00	14.7	H, K, R
	200A/600V	9.17	9.00	17.2	H, K, R
	200A/600V	9.17	9.00	13.32	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.

- ▲ Built to order. Allow 6–8 weeks for delivery. ①For Type 4 and 4X applications, order handle only Catalog Number
- 100A FDH104 200A - FDH204 @For Type 4 and 4X applications, order handle only Catalog Number FHOHS4
- 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
- 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 Compact Fusible Switches

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

Features and Ordering Information

Revised

04/30/15

- Catalog number CFS361C5, CFS361J5 and CNFS361 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
- 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.









Ordering information

- 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.
- 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.
 - A. 30A switch CFS361C5 and non-fusible 30A switch CNFS361 will accept up to (4) aux contacts
 - B. 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. If non-fusible switch is required order a shorting bar for 60-600A switches or catalog number CNFS361 for 30A.
- 7. 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	epower ra	tings		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 CNFS361 [®] ®	Class CC Class J Class J None	7.5 7.5 7.5 7.5	15 15 15 15	20 20 20 20 20	5 ³ 5 ³ 5 ³	100kA 100kA 200kA 65kA		
60 ①	CFS362JN1	Class J	15	30	50	10③	100kA		
60 ^① 100 ^① 200 ^② 400 ^② 600 ^②	CFS362JN CFS363JN CFS364JN [®] CFS365JN [®] CFS366J [®] ®	Class J	15 30 60 125 200	30 60 125 250 400	50 75 150 350 500	10 ³ 20 ³ - -	200kA		
800②	CFS367L ^{9®}	Class L	200	400	500	-	200kA		

Optional – with left hand mounted mechanism [®]								
30 ^① 60 ^① 100 ^①	CFS361JLN CFS362JLN CFS363JLN	Class J	7.5 15 30	15 30 60	20 50 75	5 ³ 10 ³ 20 ³	200kA	

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 &CNFS361
CFSS5400N	15.7 (400)	switches & with "CFSH5" handles only
CFSS5200HN	7.9 (200)	5mm x 5mm for use with all "CFSH10" handles & with
CFSS5400HN	15.7 (400)	CFS361C5, CFS361J5 & CNFS361 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 & CNFS361

Compact rotary operating handles - door mounted (for use with CFS361C5, CFS3361J5 & CNFS361 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	

Rotary operating handles - door mounted (for use with CFSS5200HN, ČFSS5400HN, CFSS10200HN & CFSS10400HN)

Catalog number	Color	Description
Type 1, 3R & 12 ^⑦		
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)
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
- hand operation as standard.
- © Catalog numbers CFS361C5, CFS361J5 & CNFS361 accept 5mm x 5mm operating shafts. All other 30-400A switches accept 10mm x 10mm operating

Switch and Handle Selection







- © 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 padlocked in the OFF position. ® Catalog number CNFS361 is a non-fusible switch.
- 9 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.
- (1) CNFS361 is rated 65kA when protected by Class J or CC 30A max, fuses.

Type CFS Compact Fusible Switches

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 12 x 12 mm)

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

number	Description
Terminals ^①	
CFSL200	200A lug kit (6 lugs per kit) (1)#6-3/0
CFSL400N	400A lug kit (6 lugs per kit) (1)#2-600kcmil (for CFS365JN only)

600-800A lug kit (6 lugs per kit) (2)#2-600kcmil

Shorting bars (no fuse kits)

Catalog

CFSL400

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 (CFS361J5, CFS361C5 & CNFS361)
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 open®
CFSH5CDM	Direct mount handle kit for CFS361C5 & CNFS361
CFSH5JDM	Direct mount handle kit for CFS361J5

NFPA 79 kits

(if auxiliary contacts are needed, see table on page 7)

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 & CNFS361
CFSNFPA2N [®]	For use with CFS361JN, CFS361CN, CFS362JN1, CFS362JN, CFS363JN & CFS364JN
CFSNFPA3N [®]	For use with CFS365JN only

- ① Supplied as standard on 30-100A switches
- ② CFS361C5 and CNFS361 will accept (4) aux contacts without an aux contact holder. CFS361J5 will accept (2) aux contacts without an aux contact holder.
- ③ Supplied as standard on all but 30A, 65kA & 100kA compact switches.
- 4 12.6 in. (320 mm) long operating shaft included5 12.7 in. (323 mm) long operating shaft included
- Line side terminal shrouds supplied with switch



Revised

08/01/13







- ② Defeatable cover interlock included. Cover cannot be opened when the handle is padlocked in the OFF position.
- ® Neither line or load terminal shrouds are supplied as standard with new style 200 & 400A switches.

Type CFS Compact Fusible Switches

Dimensions and Technical Characteristics

UL & CSA technical characteristics and panel space requirements

Catalog		Fuse	AC short	Electrical		Panel space requirements - in. (mm)		
number	Amps	Class	rating	endurance		Height	Width	Depth ^①
CFS361C5	30	CC	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)
CNFS361	30	None	65kA ²	6000	10000	4.56 (116)	3.78 (96)	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 (280)
CFS466J	600	J	200kA	1000	5000	11.81 (300)	18.03 (458)	11 (280)
CFS367L	800	L	200kA	500	3500	11.81 (300)	14.33 (364)	11 (280)
CFS467L	800	L	200kA	500	3500	11.81 (300)	18.03 (458)	11 (280)

Wire ranges line & load lugs

	Amperage	UL approved
Switch	Rating	wire size (75° C)
CFS361J5	30	(1)#14-10
CFS361C5	30	(1)#14-10
CNFS361	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
CNFS361	CFSNFPA1	(2) Total, CFSAUX1NO
CFS361C5		or CFSAUX1NC
CFS361J5		(1) CFSAUX1NO or (1) CFSAUX1NC
CFS361JN	CFSNFPA2N	(2) Total, CFSAUX1NO or CFSAUX1NC [®]
CFS362JN1		
CFS362JN		
CFS363JN		
CFS364JN		
CFS365JN	CFSNFPA3N	(2) Total, CFSAUX1NO or CFSAUX1NC®

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

decreased if aux contacts are not required.

© CNFS361 is rated 65kA when protected by 30A max.

Class J or CC fuses.

⑤ For additional auxiliary contacts use side mounted CFS11AUX or CFS22AUX.