

# Fusible Disconnect Switches FB Series

## UL 98 Fusible Disconnect Switches

Mersen FB Series disconnect switches are extremely durable, manually operated, fusible disconnect switches. They employ double break contacts per pole that ensure complete isolation of the fuse when the switch is in the OFF position. With safety in mind, all fusible disconnect switches are supplied with fuse covers and line side shrouding as a standard feature. These switches provide the ultimate in short circuit protection when used with Mersen's Class CC, J or L fuses. These heavy-duty switches are designed with the most up-to-date disconnect fuse and switch technology available. Designed to meet the UL98 or UL489 standard, the fusible disconnect switch gives you the product that "makes and breaks" power circuits under load. They have been tested and approved for use in the most demanding applications, such as "Service Entrance." The optional TEST function (up to 400 A) enables testing of the control circuit auxiliaries without switching the main contacts. This function provides a simple alternative to a separately wired push button. A wide array of handles are available to meet OSHA padlocking requirements, NEMA configurations, defeater options and NFPA 79 requirements.

### Highlights:

- Double break contact per pole up to 800 A
- Touch safe covers protect fuse terminals
- Service entrance rated
- Compact footprints
- Front and side operated switches with snap-on auxiliary contact feature
- 14AWG power taps on both line and load sides for control power transformers or surge protection
- External or direct operation handles
- Defeatable pistol handles automatically re-latch when panel door is closed - no tool necessary to reset latch
- Test positions available up to 400A
- Padlocking feature as standard on modular switchgear boxes
- Modular switch configurations, special executions on request (5-pole, mix ratings...)
- Padlockable handle
- Flange-mounted actuators

### Applications:

- Service entrance or main panel disconnects up to 600 VAC, 800 A
- "Make and break" power circuit applications on load
- Fusible isolation switches
- NFPA 79 solutions

### Recommended fuse usage:

- FBCC — use with ATDR\*, ATMR, ATQR
- FBJ — use with AJT, A4J, HSJ
- FBL — use with A4BQ, A4BY, A4BT

\* Recommended for DC application



### Ratings:

**Volts** : 600VAC, 250VDC

**Amps** : 30, 60, 100, 200, 400, 600, and 800A

**SCCR** : Up to 200kA with Class CC, J, or L Fuses

### Approvals:

- All Fusible Disconnect Switch switches meet UL & CSA requirements
- UL listed guide WHTY, File E191605 for UL 98 (ratings from 30 A to 800 A)
- UL listed guide WJAZ, File E258428 for UL489 (for 30 A CDT)
- CSA 22.2 # 4, class 4652-04, File703166 (ratings from 30 A to 800 A)
- CSA 22.2 # 5, class 4652-06, File 703166 (for 30 A CDT)
- IEC 947-3 CE mark



# Fusible Disconnect Switches FB Series

## Flange Operated Range from 30 to 400A



Select a switch

Ampere Rating	Catalog Numbers				
	30	60	100	200	400
2-Pole	FBJ302SOX	FBJ602SOX	FBJ1002SOX	-	-
3-Pole	FBJ303SOX	FBJ603SOX	FBJ1003SOX	FBJ200SO	FBJ400SO
4-Pole	FBJ304SOX	FBJ604SOX	FBJ1004SOX	FBJ2004SO	FBJ4004SO
Fuse class	J	J	J	J	J

## Cable flange operated handle (square D type - class 9422)



Select a handle

NEMA Type	IEC	Catalog Numbers				
1, 3R, 12	IP54	HAF-OP1 <sup>(1)</sup>	HAF-OP1 <sup>(1)</sup>	HAF-OP1 <sup>(1)</sup>	HAF-OP1 <sup>(1)</sup>	HAF-OP1 <sup>(1)</sup>
4, 4X	IP65	HAF-OP2 <sup>(2)</sup>	HAF-OP2 <sup>(2)</sup>	HAF-OP2 <sup>(2)</sup>	HAF-OP2 <sup>(2)</sup>	HAF-OP2 <sup>(2)</sup>

Note: Handle is defeatable, and padlockable in the "OFF" position.



Mechanism

Mechanism	HAF-MECH	HAF-MECH	HAF-MECH	HAF-MECH	HAF-MECH



Select a cable

Cable Length (inches / mm)	HAF-C36	HAF-C36	HAF-C36	HAF-C36	HAF-C36
36 / 914.4					
60 / 1,524	HAF-C60	HAF-C60	HAF-C60	HAF-C60	HAF-C60
120 / 3,048	HAF-C120	HAF-C120	HAF-C120	HAF-C120	HAF-C120

Note: Cable flange operation is for enclosure depth from 5.75"/145mm to 36"/990mm, depending on the cable length.

## Rod flange operated handle (square D type - class 9422)



Select a handle

NEMA Type	IEC	Catalog Numbers				
1, 3, 3R	IP54	HAF-OP1 <sup>(1)</sup>	HAF-OP1 <sup>(1)</sup>	HAF-OP1 <sup>(1)</sup>	HAF-OP1 <sup>(1)</sup>	HAF-OP1 <sup>(1)</sup>
4, 4X	IP65	HAF-OP2 <sup>(2)</sup>	HAF-OP2 <sup>(2)</sup>	HAF-OP2 <sup>(2)</sup>	HAF-OP2 <sup>(2)</sup>	HAF-OP2 <sup>(2)</sup>

Note: handle is defeatable, and padlockable in the "OFF" position.



Select a rod

Rod Length (inches / mm)	HA-FR	HA-FR	HA-FR	HA-FR	HA-FR
23.6 / 500					

Note: Rod kit is for enclosure depth from 8 / 203 to 24.12 / 613 For smaller depth, please consult us.

## Options for flange & direct operation handle from 30 to 400 A



Terminal lugs kit	Catalog Numbers				
6 lugs per kit - for 2 pole fuse switches	Integral	Integral	Integral	TL200X4	TL400
6 lugs per kit - for 3 pole fuse switches	Integral	Integral	Integral	TL200X6	TL400
8 lugs per kit - for 4 pole fuse switches	Integral	Integral	Integral	TL200X8	TL4004
Terminal shrouds kit					
2-pole (for line or load side)	Integral	Integral	Integral	-	-
3-pole (for line or load side)	Integral	Integral	Integral	TS200FB <sup>(5)</sup>	TS400FB <sup>(4)</sup>
4-pole terminal shrouds kit (for line or load side)	Integral	Integral	Integral	TS2004FB <sup>(5)</sup>	TS4004FB <sup>(4)</sup>
Shorting links kit (3 links per kit - for 3 pole fuse switches)	NLJ30	SL60	SL100	SL200	SL400
Auxiliary contacts <sup>(3)</sup>					
1 NO+NC side mount contact block, A600 - N600	AC5	AC5	AC5	AC5	AC5
2 NO+NC side mount contact blocks, A600 - N600	AC6	AC6	AC6	AC6	AC6

(1) All external metal parts are sheet steel.

(2) All external metal parts are either stainless steel or a chrome-plated non-ferrous die casting.

(3) Two auxiliary contact blocks maximum can be side mounted.

(4) As a replacement part (two terminal screens supplied as standard with switch). Note: for class T fuse adaptors, please consult us.

(5) Line side shrouding supplied as standard with the switch.