

Circuit Protection



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Molded Case Circuit Breakers (MCCB) UL 489

Provide branch and feeder circuit protection in industrial control panels

- UL 489
- Up to 600amps
- 65KA @ 240 VAC interrupting rating
- G frame size 60 to 100 amps
- F frame size 60 to 225 amps
- K frame size 250 to 400 amps
- L frame size 400 to 600 amps



Supplementary Protectors UL1077

Supplementary protectors are UL 1077 recognized and are used in applications where branch circuit protection is not required or is already provided

- WMS Series
- DIN rail mountable
 - Full lin of auxiliary switches, alarm switches and padlock lock-out accessories
 - B trip curve 6 to 60 amps
 - C trip curve 1 to 60 amps
 - D trip curve 1 to 40 amps

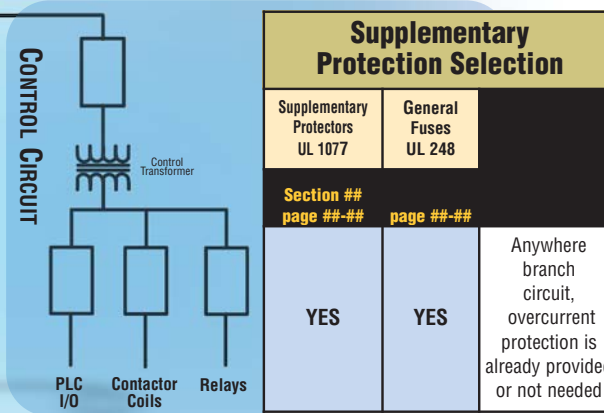
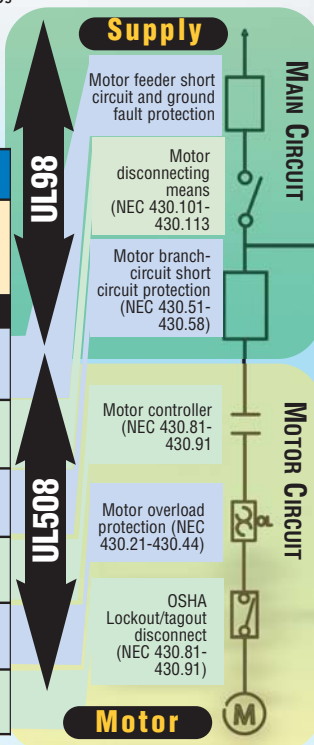


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Which type of Circuit Protection are you looking for?

Circuit Protection Selection

	Molded Case Circuit Breakers (MCCB) UL 489	Current Limiting Fuses UL 248	Rotary Disconnect Switches UL 98	Manual Motor Starters (MMS) UL 508	Load Switches UL 508	Supplementary Protectors UL 107	General Fuses UL 248
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Short circuit and ground fault protection for feeder and branch circuits	YES	YES	YES	NO	NO	NO	NO
Motor disconnecting means (NEC 430.101-430.113)	YES	YES	YES	NO	NO	NO	NO
Motor branch-circuit short circuit protection (NEC 430.51-430.58)	YES	YES	YES	NO	NO	NO	NO
Motor controller (NEC 430.81-430.91)	YES	YES	YES	NO	NO	NO	NO
Motor overload protection (NEC 430.21-430.44)	YES	YES	YES	YES	YES	NO	NO
OSHA Lockout/tagout disconnect (NEC 430.81-430.91)	YES	YES	YES	YES	YES	NO	NO



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Fuses

The Edison Fuse products are industry-standard fuses that are designed using the highest quality materials and manufacturing methods. All Edison fuses can be directly cross referenced and used as replacements for other name-brand fuses such as Littelfuse, Ferraz, Siemens, and many more.



UL 98 Rated Disconnect Switches

Heavy-duty fusible and non-fusible disconnects meeting all the requirements of the UL 98 standard. Can be used both as a motor disconnecting means to meet NEC® 430.109 and meets NEC® 430.111 as a motor controller.

SIRCO series

- Non-fusible rotary disconnect switches
- Make/Breaks loads up to 800 amps
- Front operated
- Visible blade contacts
- Line side shrouding comes standard with switch

FUSERBLOC series

- Fusible rotary disconnect switches
- Makes/Breaks loads up to 200 amps
- Front operated
- Uses Class CC and Class J fuses
- Line side shrouding comes standard with switch
- Touch safe fuse covers standard with switch



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UL 508 Rated Load Switches

The SD series of load switches are used for making and breaking equipment loads. these switches can be used as a motor controller meeting NEC® 430 Part VII. Typical applications are local disconnects for motors.

SD Series

- 35mm DIN rail mountable or direct mountable
- Loads from 16 to 125 amps
- IP20 degree of protection



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- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
- C-more HMIs
- Other HMI
- AC Drives
- Motors
- Steppers/Servos
- Motor Controls
- Proximity Sensors
- Photo Sensors
- Limit Switches
- Encoders
- Pushbuttons/Lights
- Process
- Relays/Timers
- Comm.
- TB's & Wiring
- Power
- Enclosures
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Which Switch is right for you?

Ferraz Shawmut® Disconnect Switches



UL 98 Rated Disconnect Switches used for:

- Service entrance or main panel disconnects up to 600 VAC, 800 A
- "Make and Break" power circuit applications on load
- NFPA 79 Solutions
- Motion disconnecting means NEC 430.101 - 403.113



UL 98 Rated Disconnect Switches

The AUTOMATIONDIRECT power products line now includes 600 VAC / 250 VDC heavy-duty fusible and non-fusible electrical disconnects from Ferraz Shawmut. The new SIRCO and FUSERBLOC series meet UL98 standards and are UL, CSA, CE and IEC rated. The series is designed with the most up-to-date power disconnect technology available - "make and break" power circuits on load. In addition, a wide array of handles is available, meeting OSHA padlocking requirements, NEMA configurations, defater options and NFPA 79 requirements. These switches have been tested and approved for use in the most demanding applications, including "service entrance".

SIRCO series

- Non-fusible rotary disconnect switches
- Make/Breaks loads up to 800 amps
- Front operated
- Visible blade contacts
- Line side shrouding comes standard with switch

Ratings

- 600 VAC, 250 VDC
- 30, 60, 100, 200, 400, 600, and 800 amperes
- Up to 200 kA short circuit rating when Class CC, J, or L fuses are used externally

Approvals

- All SIRCO switches meet UL98 requirements
- UL Listed Guide WHTY, File E191605
- CSA C22.2 # 4 Class 4652 04, File 703166
- IEC 947-3 as a load break disconnect
- CE mark

FUSERBLOC series

- Fusible rotary disconnect switches
- Makes/Breaks loads up to 200 amps
- Front operated
- Uses Class CC and Class J fuses
- Line side shrouding comes standard with switch
- Touch safe fuse covers standard with switch
- Can be used in "reverse" applications where the mains are fed in on the load side

SD Series Load Switches from AutomationDirect



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UL 508 Rated Load Switches used for:

- Disconnect (device without on-load making and breaking capacity)
- Switches at installation head or for resistive circuits (heating, lighting, except discharge lamps, etc.)
- Switches in secondary circuits or reactive circuits (capacitor banks, discharge lamps, shunt motors, etc.)

UL 508 Rated Load Switches

The SD series, our non-fused load-break disconnects allow breaking and disconnecting of equipment loads up to 600 VAC, at nominal currents from 16A to 125A. **These disconnect switches are UL listed as Manual Motor Controllers and are commonly used as motor isolation disconnects in junction boxes local to the motor.** When upstream short-circuit protection is provided, they may be used as enclosure disconnects. SD Series

- Loads from 16 to 125 amps
- High breaking capacity
- Double break contacts
- High electrical and mechanical endurance
- Resistant to damp heat
- IP20 degree of protection
- HACR (heating, air conditioning and refrigeration) rated
- 35mm DIN rail mountable or panel mounting
- Modular window 45mm
- Remote handles with door interlock feature can be locked with up to three padlocks in the OFF position

Ratings

- 600 VAC • IP 20
- 16 to 125 amps

Approvals

- UL508/cUL File: UL E226699
- IEC/EN File No. 60947/1-3
- CE mark

PLC Overview

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405 PLC

Field I/O

Software

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Pushbuttons/Lights

Process

Relays/Timers

Comm.

TB's & Wiring

Power

Enclosures

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