

Exception No. 1: For motor circuits over 1000 volts, nominal, a motor controller disconnecting means lockable in accordance with 110.25 shall be permitted to be out of sight of the motor controller if the motor controller is marked with a label giving the location of the disconnecting means.

Exception No. 2: A single disconnecting means shall be permitted for a group of coordinated motor controllers that drive several parts of a single machine or piece of apparatus. The disconnecting means shall be located in sight from the motor controllers, and both the disconnecting means and the motor controllers shall be located in sight from the machine or apparatus.

Exception No. 3: The disconnecting means shall not be required to be in sight from valve actuator motor (VAM) assemblies containing the motor controller where such a location introduces additional or increased hazards to persons or property and the following conditions are met:

- (1) The valve actuator motor assembly is marked with a label giving the location of the disconnecting means.
- (2) The disconnecting means is lockable in accordance with 110.25.

(B) Motor. A disconnecting means shall be provided for a motor in accordance with 430.102(B)(1) or (B)(2).

(1) Separate Motor Disconnect. A disconnecting means for the motor shall be located in sight from the motor location and the driven machinery location.

Δ (2) Motor Controller Disconnect. The motor controller disconnecting means required in accordance with 430.102(A) shall be permitted to serve as the disconnecting means for the motor if it is in sight from the motor location and the driven machinery location.

Exception to (1) and (2): The disconnecting means for the motor shall not be required under either of the following conditions if the motor controller disconnecting means required in 430.102(A) is lockable in accordance with 110.25:

- (1) Where such a location of the disconnecting means for the motor is impracticable or introduces additional or increased hazards to persons or property

Informational Note No. 1: Some examples of increased or additional hazards include, but are not limited to, motors rated in excess of 100 hp, multimotor equipment, submersible motors, motors associated with adjustable-speed drives, and motors located in hazardous (classified) locations.

- (2) In industrial installations, with written safety procedures, where conditions of maintenance and supervision ensure that only qualified persons service the equipment

Informational Note No. 2: See NFPA 70E-2021, *Standard for Electrical Safety in the Workplace*, for information on lockout/tagout procedures.

The main rules of 430.102(A) and (B) require that the disconnecting means be in sight of the controller, the motor location, and the driven machinery location. The exceptions to these rules permit the disconnecting means to be out of sight under certain conditions, which include that it be capable of being locked in the open position.

A single disconnecting means may be located adjacent to a group of coordinated controllers, as illustrated in Exhibit 430.16, where the controllers are mounted on a multimotor continuous process machine.

According to 430.102(B)(2), Exception, the disconnecting means is permitted to be out of sight of the motor — as illustrated in Exhibit 430.17 — if the controller disconnecting means

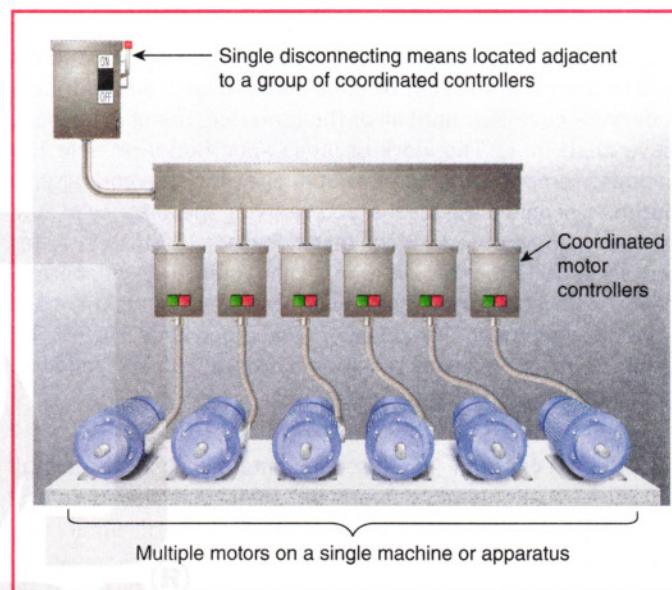


EXHIBIT 430.16 A single disconnecting means located adjacent to a group of coordinated controllers mounted on a multimotor continuous process machine.

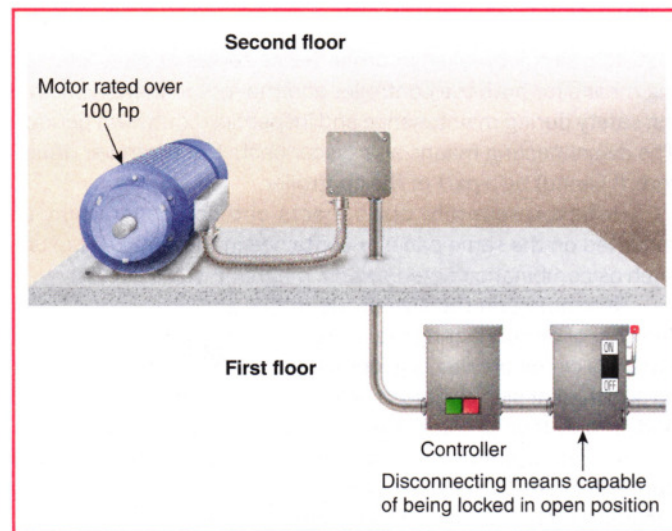


EXHIBIT 430.17 A controller disconnecting means that is out of sight of the motor but only for cases that meet the requirements of (1) or (2) of 430.102(B), Exception.