

ARTICLE 225

OUTSIDE BRANCH CIRCUITS AND FEEDERS

Introduction to Article 225—Outside Branch Circuits and Feeders

Article 225 contains the installation requirements for outside branch circuits and feeders not over 1000V ac or 1500V dc, installed on or between buildings, structures, or poles. Conductors installed outdoors can serve many purposes such as area lighting, power for outdoor equipment, or to provide power to separate buildings or structures. Some topics covered in our material for this article include:

- ▶ Conductor support and attachment
- ▶ Clearance for overhead conductors and cables
- ▶ Raceways on exterior surfaces of buildings or other structures
- ▶ Raceway seals
- ▶ Grouping and identification of disconnects
- ▶ Emergency disconnects
- ▶ Surge protection

Article 225 consists of two parts:

- ▶ Part I—General Requirements
- ▶ Part II—Buildings or Other Structures Supplied by a Feeder(s) or Branch Circuit(s)

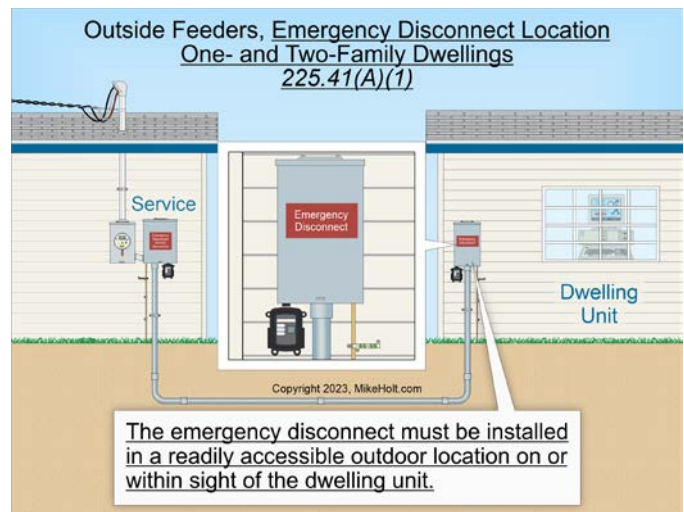
Part II. Buildings or Other Structures Supplied by a Feeder

225.41 Emergency (Shutoff) Disconnects

For one- and two-family dwelling units, an emergency disconnect must be installed for first responders and others.

(A) General.

(1) Location. The emergency disconnect must be installed in a readily accessible outdoor location on or within sight of the dwelling unit. ▶Figure 225–26



▶Figure 225–26

(2) Rating. The emergency disconnect must have a short-circuit current rating equal to or greater than the available fault current.

(3) Grouping. If more than one emergency disconnect is provided, they must be grouped.

(B) Identification of Other Disconnects. Where disconnects for other energy source systems are not adjacent to the emergency disconnect, a plaque or directory identifying the location of other energy source disconnects must be adjacent to the emergency disconnect.

Note: See 445.18, 480.7, 705.20, and 706.15 for examples of other energy source system isolation means.

(C) Marking. The emergency disconnect must be marked “EMERGENCY DISCONNECT.”

Markings must be permanently affixed and be sufficiently durable to withstand the environment involved in accordance with 110.21(B) and comply with following:

- (1) The emergency disconnect marking or label must be on the outside front of the disconnect with a red background and white text.
- (2) The letters must be at least ½ in. high.