

## Chapter E 215

## FEEDERS

E 215.01	Scope	E 215.04	Overcurrent protection
E 215.02	Conductor size	E 215.05	Common neutral feeder
E 215.03	Voltage drop	E 215.06	Diagram of feeders

**E 215.01 Scope.** This chapter deals with the sizes of conductors in the feeders needed to supply power to the loads as calculated under chapter E 220.

**History:** Cr. Register, April, 1964, No. 100, eff. 5-1-64.

**E 215.02 Conductor size.** (1) Feeder conductors shall have a current rating not smaller than the feeder load as determined by section E 220.04. A 2-wire feeder supplying 2 or more 2-wire branch circuits or a 3-wire feeder supplying more than two 2-wire branch circuits, or 2 or more 3-wire branch circuits, shall be not smaller than No. 10. Where a feeder carries the total current supplied by the service-entrance conductors, such feeder, for services of No. 6 and smaller, shall be of the same size as the service-entrance conductors.

(2) Where at any time it is found that feeder conductors are, or will be overloaded, the feeder conductors shall be increased in capacity to accommodate the actual load served.

**Note:** See examples Nos. 1 to 7 of chapter E 900.

**History:** Cr. Register, April, 1964, No. 100, eff. 5-1-64.

**E 215.03 Voltage drop.** The size of the feeder conductors should be such that the voltage drop up to the final distribution point for the load as computed by section E 220.04 will not be more than 3% for power or heating loads, and not more than 1% for lighting loads or combined lighting, heating and power loads.

**History:** Cr. Register, April, 1964, No. 100, eff. 5-1-64.

**E 215.04 Overcurrent protection.** Feeders shall be protected against overcurrent in accordance with the provisions of chapter E 240.

**History:** Cr. Register, April, 1964, No. 100, eff. 5-1-64.

**E 215.05 Common neutral feeder.** A common neutral feeder may be employed for 2 or 3 sets of 3-wire feeders, or 2 sets of 4-wire or 5-wire feeders. When in metal enclosures, all conductors of feeder circuits employing a common neutral feeder shall be contained within the same enclosure as provided in section E 300.20.

**History:** Cr. Register, April, 1964, No. 100, eff. 5-1-64.

**E 215.06 Diagram of feeders.** If required by the administrative authority, a diagram showing feeder details shall be supplied previous to installation. This diagram should show: Area in square feet; load (before applying demand-factors); demand-factors selected; computed load (after applying demand-factors); and the size of conductors.

**History:** Cr. Register, April, 1964, No. 100, eff. 5-1-64.