

# 2020 National Electric Code 210.8 (F) Ground-Fault Circuit-Interrupter Protection for Personnel

## CRITICAL UPDATE FOR STATES THAT HAVE ADOPTED THE 2020 NEC

In 2021, the National Fire Protection Association (NFPA) Standards Council voted to issue a Tentative Interim Amendment (TIA 20-13) into the 2020 National Electric Code (NEC) 210.8, *Ground-Fault Circuit-Interrupter (GFCI) Protection for Personnel. (F) Outdoor Outlets.*



**The 2020 NEC 210.8 (F)** states: “All outdoor outlets for dwellings, other than those covered in 210.8 (A)(3), Exception to (3), that are supplied by single-phase branch circuits rated



150 volts to ground or less, 50 amperes or less, shall have ground-fault circuit-interrupter protection for personnel.

This requirement shall become effective on January 1, 2023 for mini-split-type heating/ventilating/air-conditioning (HVAC) equipment and other HVAC units employing power conversion equipment as a means to control compressor speed.

**At the state level**, many jurisdictions have either **deleted** the 210.8 (F) requirement, modified it to exempt HVAC equipment, or adopted TIA 20-13. In jurisdictions adopting TIA 20-13, the 210.8 (F) requirements do not apply until January 1, 2023, for mini-split heating, ventilating, and air-conditioning (HVAC) equipment and other HVAC equipment employing power conversion equipment to control compressor speed. See state actions on the 2020 NEC [here](#).

**To find out if equipment meets the 2020 NEC 210.8(F) delay and does not need a GFCI installed with it:**

- Review the product specification sheet and instruction manual;
- Look for wording that denotes 1) adjustable speed, 2) variable speed, or 3) inverter-driven compressor;
- Contact the manufacturer and provide the model and serial numbers and the product application; or
- Contact your state regarding the application of 210.8 (F).

For more information,  
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