

# How to Select a Ground Fault Relay

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Two base models are offered:

## AG Ground Fault Relay

for wire bundle diameter sizes up to 0.75" diameter



## AGL Ground Fault Relay

for wire bundle diameter sizes up to 1.82" diameter



The correct AC ground fault relay series is based on whether all current carrying conductors fit through the aperture window. Included is a [Ground Fault Relay Guide](#) to ease selection of the proper ground fault relay. To use the Ground Fault Relay Guide, the following details are needed:

1) Branch circuit specifications: amperage capacity and load configuration example 50A, 208 VAC, 3 Phase, Delta (3+1)

2) Circuit-Interrupter type: Shunt-trip breaker, contactor, or relay

Note: Shunt-trip breaker is recommended

NK recommends either the AG or AGL series ground fault relay for commercial kitchens and other wet locations per 2020 Edition National Electric Code (NEC) 210.8 (B) through (F), and 422.5 special appliances. Which relay is best for the branch circuit is dependent upon whether the wire bundle passes through aperture of the ground fault relay.

The [Ground Fault Selection Guide](#) is provided to ease the selection process and recommendations are based on using a shunt-trip breaker and THHN wire. Given numerous wire and local code variants the Ground Fault Selection Guide is for reference only.

Other than the THHN wire and/or non-NEC cable correction factors, use application note [How to Calculate Bundle Diameter](#) to confirm wire bundle will pass through the aperture of either the AG or AGL ground fault relay.

After verifying all current carrying conductors pass through the relay's aperture, [Click here to select the correct model for you application.](#)

## 5 mA Ground Fault Circuit Interrupter Solutions for Single or Three Phase Circuits up to 100 Amps

Cost Effective, Readily Available, Designed and Assembled in the USA



### NK Technologies 5 mA Ground Fault Circuit Interrupter Solution Benefits

- Meets intent of 2020 NEC 210.8 defined term ground fault circuit interrupter.
- Compact relay size allows for multiple mounting opportunities anywhere from the breaker to the appliance.
- Inventory and unrivaled in-house expertise within the USA.
- When you call, chat or email our application support team will answer promptly.
- Industry leading 5-year warranty.

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