

Ensure compliance and protect your people

Arc flash assessment services from Omron

Your trusted partner for all machine safety needs

Arc flash: Understanding the risks

When doing work on an energized panel, your employees need critical information to keep themselves and others safe from an arc flash. Regulatory requirements mandate that arc flash risk assessments must be refreshed every five years.



What is an arc flash?

An arc flash can be thought of as an explosion of electricity. A tiny spark can draw increasing amounts of power, causing a sudden flare-up of intense light and heat that can be fatal for anyone nearby.

Although high voltages are most likely to cause an arc flash, low voltages don't necessarily mean the situation is safe. For this reason, it's essential for manufacturers to get periodic risk assessments and implement thorough training to eliminate hazards.

Necessary measures to implement

Employees need to know the risks of an arc flash. Critical pieces of information provided by an arc flash assessment should include the appropriate distance to maintain and the correct personal protective equipment (PPE) to wear. Equally important, this information needs to be on a clear, pre-printed label at the panel. Employees should not need to hunt for critical safety information before they work on a live electrical panel.

How Omron can help

We incorporate regulatory requirements from OSHA and NFPA 70E to create accurate, complete, and calculated labels, so your employees know and understand the hazard levels they're about to face, and the steps they'll need to take to protect themselves.

With our strategic partnership with the Brady Corporation, we're moving beyond traditional risk management methodologies to address the full range of machine safety needs.



Arc flash assessment services

Our Arc Flash Risk Assessments are conducted by Brady electrical engineers using power system analysis software to provide you with the tools and resources for success. From performing the risk assessment and printing the proper labels to collaborating with your stakeholders and providing a detailed assessment report, our partners will do what it takes to help you achieve and maintain compliance.

The process

- 1. One of our engineers holds a kick-off meeting that includes team building with your internal stakeholders and a facility tour.
- 2. The engineer collects and audits your arc flash data to identify all electrical equipment and document conductor lengths, ampacities, overcurrent protection device ratings, and the like.
- **3.** Once all the data is collected, the engineer enters the information into the power system analysis software to create a single-line diagram of the electrical system.
- 4. With all information in hand, the engineer creates your risk assessment report and the corresponding arc flash labels.
- 5. Once the report is complete, the engineer reviews your report and installs the labels.

What you'll receive

- Your updated Arc Flash Risk Assessment Report, including an electrical system single-line diagram modeled in power system analysis software, a fault current study, a protective device coordination study, and recommendations for improving arc flash safety and reducing incident energy levels
- Corresponding arc flash labels and label installation





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