Siemens Arc Defense Technology is your best defense against the dangers of arc faults.

The world’s leading drive system now offers a fully reinforced structural arc solution
In the Siemens Large Drives Applications facility, where medium voltage drives are running at all times, safety is more than just a watchword—it’s a guiding principle. With over twenty years of experience operating in a medium-voltage environment, Siemens has set the standard in medium voltage drive safety. In 2016, the Siemens medium voltage drive manufacturing facility reached the impressive record of over 4 million hours without a lost-time incident. It is the Siemens mission to extend this exemplary safety record to medium voltage drive users.

Superior quality performance
Through rigorous testing and stringent safety certification, Siemens has always upheld the highest quality and safety standards in the manufacturing of medium voltage drives. Siemens is raising the bar and taking safety a step further. By introducing the new Arc Defense Technology, Siemens is the first in the industry to apply passive arc-resistant features to medium voltage drives with integral transformers.

Smart upgrades such as pressure-relief panels and custom arc filters help to contain dangerous arc energy in the event of an arc occurrence. When used along with personal protective equipment (PPE), Arc Defense Technology can help provide a superior level of protection for your personnel and plant equipment.

Maximum equipment protection
Additionally, standard air filters were replaced with custom arc filters that are nonflammable and metalized. IP42-rated louvers add another potential layer of safety. All of these solutions were designed to meet testing requirements consistent with the existing switchgear standard that defines burn indicators and their positions, as well as cabinet integrity requirements.

Key safety features
- Integral pressure-relief panels
- Enhanced internal bracing
- More robust mechanical structure
- Inclusion of special arc filters
- Optional arc-flash detection
Compliance and Testing Standards
Complies with:
• IEC 62271-200 Edition 2.0 (2011)
• CSA C22.2 No. 0.22 (2011)
• IEEE C 37.20.7 (2007 — including Corrigendum 1-2010)
Successfully passed the following testing criteria:
• Accessibility grade — Type A, FLR for IEC and Type 2A for IEEE
• Short circuit current — 35 kA @ 7.2 kV
• Time duration — 500ms

Proactive regulatory compliance
Though not yet mandatory, arc resistance requirements are right around the corner. Siemens first began arc-fault-testing its medium voltage drives in 1998. Ever since, all Siemens medium voltage drives have been — and continue to be — rigorously tested and certified to the most current safety standards, including IEC, UL and CSA.

Reduced operational losses
Protecting your people and your equipment from an arc occurrence also protects against lost production. Combined with personal protective equipment, a drive with Arc Defense Technology is another valuable layer of defense against arc-related dangers and downtime. Optional arc-flash detection can help prevent further intensification of an arc event by sensing the arc energy and blocking the influx of additional power.

Arc protection starts with the drive itself. Siemens Arc Defense Technology helps direct the hazards of arc events away from personnel and plant equipment to mitigate damage and allow a faster return to normal operations. The result is a highly efficient, fault-tolerant drive that can help limit operational losses and prepare you for future regulations.

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