Distribution class surge arresters for wildfire mitigation

Solutions to help prevent wildfires

www.siemens-energy.com/mv-arresters



Avoiding wildfires on distribution grids

Wildfires present a significant threat to communities and the environment, with failing equipment on distribution networks being a notable source of ignition. When not adequately protected, this equipment can emit dangerous sparks and molten metal, increasing the risk of wildfire ignition.

Siemens Energy distribution class surge arresters with the APD can not only protect the critical equipment on the network, but will also mitigate the creation of arcs and sparks should they fail as well.

While conventional solutions – such as ground lead disconnectors (GLD) – successfully disconnect failing arresters from the electrical grid, they do not eliminate the underlying hazard of sparking.

Proactive innovation in surge arrester protection is therefore vital to effectively mitigate fire risk and safeguard people, nature, and infrastructure.

Siemens Energy has developed solutions to effectively address and prevent this issue:

Our solutions are designed to ensure superior protection, operational flexibility and reliability. In case of currents exceeding the threshold, these devices respond swiftly and effectively, to **significantly reduce arcing and sparking**.

Surge arresters equipped with an arc preventing disconnector (APD) continue to effectively limit current, ensuring system integrity without interruption.

For added convenience and monitoring, some arresters can be equipped with a visible fault indicator, allowing for quick identification and maintenance.

Discover the solution best suited to your needs:

Type	Disconnection of ground lead	Reduction of sparks during arrester failure	Class A acc. to AS60099.4	CalFire Exemption
Classical distribution arresters with disconnector	✓	✗	✗	✗
3EK7 with arc prevention disconnector	✓	✓ *	✓	**
3EK4 with arc protection system	✗	✓	✓	✓
3EK7 with spark reduction terminal	✗	✓	✓	N/A

* arrester is disconnected before failure

** has passed testing; exemption pending

Certificates

All Siemens Energy surge arresters are successfully tested and approved in accordance with applicable international standards.

- IEC
- IEEE
- GB
- AS

Siemens Energy surge arresters – performance you can count on

Our surge arresters offer peace of mind for operations. Their exceptional safety features, proven reliability, and cutting-edge design set a new standard for surge protection, ensuring that people, infrastructure, and nature are better protected against wildfires.

Siemens Energy is a leader in grid protection, ensuring that equipment and networks are safeguarded even against the most hazardous events.

Contact us for more information!

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