



# Supply restoration equipment for Safer, Stronger, Smarter Networks

# Up to 80% of intermittent faults can be restored first time without the need to visit the substation

Fuses are the traditional solution to low-voltage network protection. Their key limitations are that they require manual intervention to restore supplies – and may not respond effectively or safely to every type of fault.

Intermittent faults are increasingly common on ageing cable networks and often result in multiple fuse operations. Inevitably, this leads to poor supply reliability, increased costs due to time on site and part replacements as well as customer complaints.

ALVIN® Reclose enables intelligent automation and fault restoration on low-voltage networks in a cost-effective package.

In addition, the ALVIN® Reclose can locate intermittent and permanent faults using its advanced monitoring capabilities.

EA Technology's ALVIN® Reclose meets the immediate needs of DNOs to improve customer service on ageing low-voltage networks, while providing the foundation for future automation and communication schemes. In turn, this enables increasingly sophisticated management of LV networks with no requirement to modify existing units.



## Features

- Automatic supply restoration
- Fault location
- Simple, retrofit installation
- Multiple recloses (up to operator-specified limit)
- Arc-free switching
- Remote operation from within substation (for enhanced operator safety)
- Co-ordination with 400A and 315A BS88 fuse characteristics
- Provides remote access for monitoring and telecontrol via ALVIN® MiniPortal
- Fully self-contained
- Internal data logging, including fault passage, operation counter and load statistics
- SafeON® tests network integrity before operation
- Low cost



# Why will ALVIN® Reclose revolutionise the operation of LV Networks?



### Automatic supply restoration

For intermittent faults, ALVIN® Reclose will 'self-heal' the network and automatically restore supplies without manual intervention. This enables significant improvements to network performance and customer satisfaction. For permanent faults, it disconnects supplies as quickly as a fuse but unlike a fuse can be reset following circuit repair.

### Automatic fault location

Utilising its monitoring capabilities and waveform capture, the ALVIN® Reclose can provide an impedance to fault value which can then be mapped onto an impedance contour map to locate the position of the fault(s). The ALVIN® Reclose can also work in conjunction with TDR equipment to provide a distance to fault.

### Saves time and effort

ALVIN® Reclose's unique, advanced all-in-one mechanism means no engineer intervention is required on-site. The device tests the network condition remotely, prior to automatically reclosing. Unlike other devices, this can be done multiple times without the need for engineer intervention.

### Improved safety

ALVIN® Reclose's unique SafeON® remote operation ensures power can be safely restored. Using the SafeON® technology, the network is automatically tested for the presence of a permanent fault prior to full energisation, while retaining the assurance of backup protection via a conventional fuse.

### Low cost deployment

Combined with high quality specification, functionality and reliability, ALVIN® Reclose can be widely deployed and left on the system to maintain enhanced system protection.

### Ready for the future

ALVIN® Reclose provides an ideal foundation for a range of low-cost add-on services that allow DNOs the flexibility to upgrade to more sophisticated network automation and management at a time that suits their requirements and budgets.

### Improved network protection

ALVIN® Reclose is the only retro-fit product that has arc-free switching. This extends the lifetime of network assets, improves safety and reduces maintenance costs by reducing network stresses during supply restoration.

### Suitable for retro-fit

Fitting ALVIN® Reclose is simple, fast, safe and can be fitted without tools to a standard LV board by suitably trained field operators.

### Configurable to your needs

EA Technology recognises that different network operators have different needs and ALVIN® Reclose can be factory programmed to provide a variety of different protection characteristics and operational settings, offering far greater flexibility than conventional fuse solutions.

### Comprehensive training

Is available, together with access to a lifetime support service with on-call expertise and assistance, enabling the seamless integration of ALVIN® Reclose into every day operation.

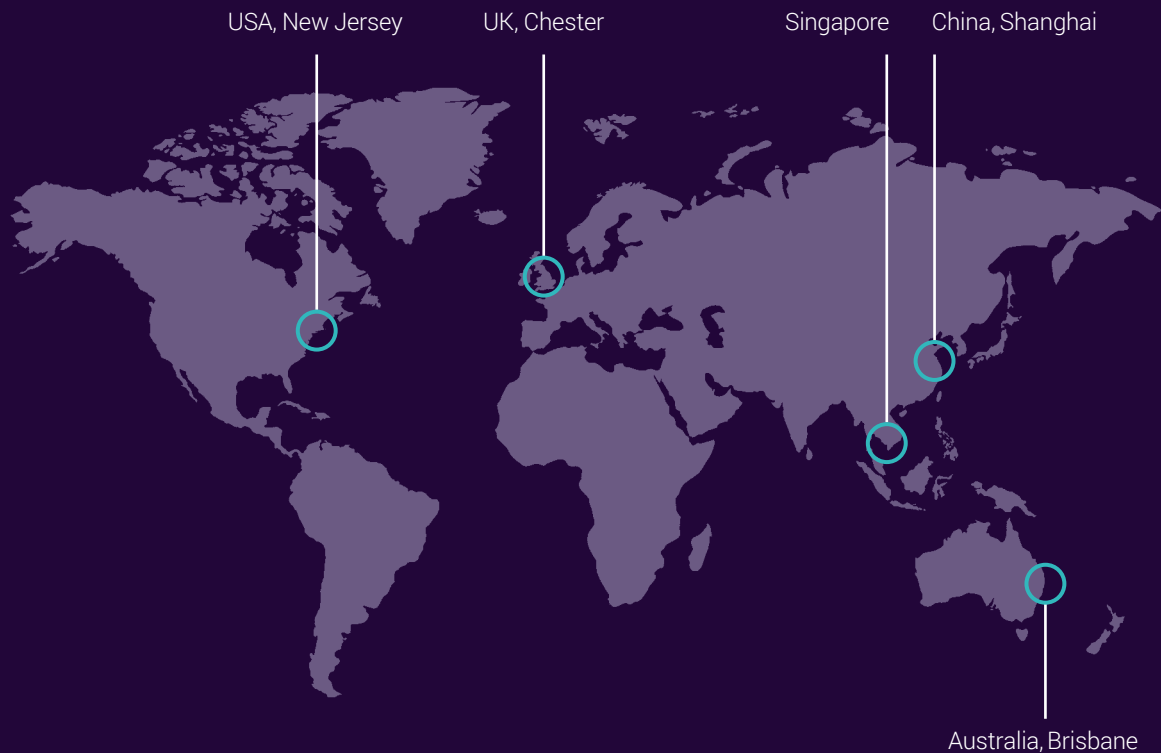
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# Global Footprint

At EA Technology we specialise in asset management solutions for owners and operators of power network assets.



Founded in 1966 we have over 50 years' experience in the industry and 6 regional offices around the world to support our global customer base.

We work with a lot of our clients on a long-term basis to help them safeguard their power networks.

We advise our clients on strategy and implementation of a range of technology solutions to manage power assets, delivering maximum life and minimise cost.



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