

Nationwide support on one number -  
call the Customer Information Centre on

**0870 608 8 608**

Fax 0870 608 8 606

### Schneider Electric's local support

Schneider Electric is committed to supporting its customers at every stage of a project. Our 180 sales engineers, the largest dedicated sales force in the UK electrical industry, operate from 4 customer support centres.

Our sales engineers are skilled at assessing individual requirements and combined with the expert support of our product specialists, will develop the most effective and economical answer taking relevant regulations and standards fully into account.

To access the expertise of the Schneider Electric group, please call 0870 608 8 608. Each customer support centre includes facilities for demonstrations and training, and presentation rooms fully equipped with audio visual and video, providing excellent meeting facilities.

#### Merlin Gerin

**Merlin Gerin** is a world leader in the manufacture and supply of high, medium and low voltage products for the distribution, protection, control and management of electrical systems and is focused on the needs of both the commercial and industrial sectors. The newly launched VDI Network Solutions offer provides flexible, configurable ethernet systems for all communication needs.

#### Square D

**Square D** is a total quality organisation and its business is to put electricity to work productively and effectively, protecting people, buildings and equipment. Its low voltage electrical distribution equipment, systems and services are used extensively in residential and commercial applications.

#### Telemecanique

**Telemecanique** is a UK market leader and world expert in automation and control. It provides complete solutions, with its range of components, Modicon range of high technology programmable controllers (PLCs), multiple fieldbus and ethernet communication networks, HMI, motion control systems, variable speed drives and communications software. In addition, it offers power distribution through prefabricated busbar trunking.

### Local customer support centres

Scotland  
Schneider Electric Ltd  
Suites 1-6, Technology Building  
James Watt Avenue  
Scottish Enterprise Technology Park  
East Kilbride  
Glasgow G75 0QD

South West  
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Maynooth Business Campus  
Maynooth, Co. Kildare  
Tel: (01) 601 2200  
Fax: (01) 601 2201  
www.schneider-electric.ie

### Product showrooms

#### Industrial systems and solutions showroom

Schneider Electric Ltd, University of Warwick Science Park, Sir William Lyons Road, Coventry CV4 7EZ

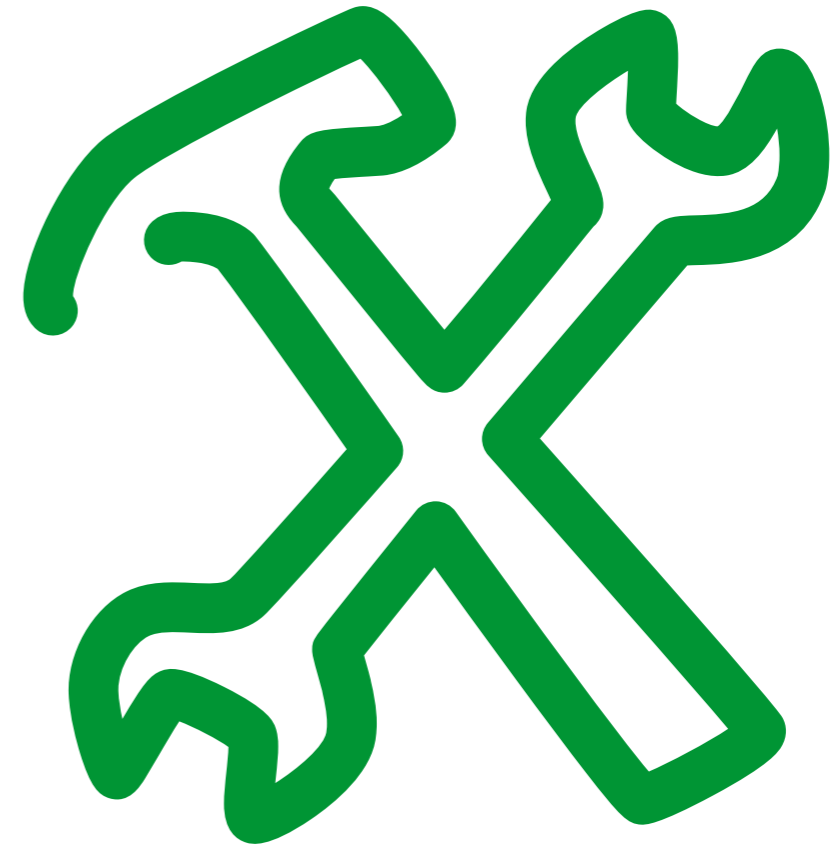
#### Building systems and solutions showroom

Schneider Electric Ltd, Stafford Park 5, Telford, Shropshire TF3 3BL

#### Energy and Infrastructure systems and solutions showroom

Schneider Electric Ltd, 123 Jack Lane, Hunslet, Leeds LS10 1BS

## Services & Projects Retrofit Solutions



**Schneider**  
Electric

www.schneider-electric.co.uk

member of  
**voltimum**  
.co.uk

**Schneider**  
Electric

Enhance the performance of your equipment with minimal interruption to your business



## Why retrofit?

It can be time consuming and expensive to replace obsolete switchgear, so a more effective solution may be to simply upgrade the circuit breaker. Schneider Electric offers a number of retrofit solutions designed to extend the operational life of your installation and improve performance and reliability.

Retrofitting allows you to extend the life of your power distribution devices without the disruption of removing and replacing your entire switchboard. It also eliminates the danger of disturbing existing cabling, which is a common issue during replacement works.



## What are the benefits?

- > The outage required to complete a retrofit is much shorter in duration than the time required to replace a switchboard
- > It is not necessary to remove the old switchboard, which is particularly beneficial when access is limited
- > There is no need to undertake any recabling, or cable re-termination
- > Phased modernisation of your installation, which offers increased flexibility in terms of budgets and operations
- > There are no costs associated with the removal/or disposal of the old switchboard or a new switchboard's offload, installation, commissioning and recabling.



Schneider Electric has developed a range of retrofit solutions to suit your needs.

Take a look at the next few pages to see what we can do for you...

## YSF6 medium voltage Retrofit

Schneider Electric has designed a retrofit solution to extend the operational life of its YSF6 range of withdrawable switchgear, introducing a 'roll-out' 'roll-in' retrofit offer. This replaces the SF6 Circuit Breaker with our latest Evolis vacuum circuit breaker, in a new moving portion.

The Evolis circuit breaker is at the heart of the YSF6 retrofit and has been developed using our vast experience in Medium Voltage switchgear. It has been designed with environmental care in mind and has been awarded the ISO 14001 standard certification. It also conforms to our ISO 9001 quality assurance standards – therefore offering a high quality product that is already well established and used in several product ranges world-wide.



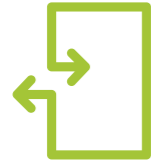
## The offer

- > Modular engineered 'roll-out' 'roll-in' unit
- > Fully engineered KEMA tested solutions
- > We offer installation and commissioning upon request
- > Optional protection upgrade to replace the existing electromechanical and older type solid state protection relays, with technologically advanced integrated microprocessor-based Sepam digital relays. The performance, accuracy and longevity of your system can be significantly improved
- > Optional remote control is useful for system automation or for situations where no access is allowed to an MV switchroom when breakers are switched
- > Take advantage of the latest technology through increased functionality incorporated in today's circuit breakers, such as metering and communication for use in energy efficiency initiatives
- > Disposal of replaced YSF6 circuit breaker
- > YSF6 is still commercially available (as a refurbished unit) and can be supplied to suit applications where the retrofit is not suitable – i.e. 40kA, 22kV and 40kA



## Applicable panels

Panel type	Feeder, Incomer and Bus-section
Nominal current	630A / 1250A
Highest system voltage	12kV
Rated voltage	11kV
Service voltage	3.3, 6.6, 11kV
Rated BIL	74kV (95kV available shortly)
Rated breaking capacity	25kA



## Low voltage retrofits

Upgrade and extend the life of your power distribution devices, without the disruption of removing and replacing your entire switchboard and disturbing existing cabling.

The LV Air Circuit Breaker (ACB) retrofit has been designed and engineered to fit into an existing switchgear compartment, with minimal modification to upgrade your LV system and switchboards.

### Why replace your switchgear?

When it becomes:

- > unserviceable
- > no longer commercially available
- > impossible to obtain spare parts
- > expensive to maintain
- > no longer suitable for the application



## A service to suit you

Dependent on the device to be retrofitted, Schneider Electric can offer several solutions:

- > LV Engineered Solutions – A custom made solution using either pre-engineered components, onsite fabrication, or a combination of both
- > LV Kitted Retrofits – This solution applies mainly to Merlin Gerin devices, where a kit for the entire device is available enabling simple installation on site without the need for fabrication. This is also available for Klockner Moeller IZM devices
- > LV Plug and Play – An innovative solution developed exclusively for Schneider Electric Masterpact M and Klockner Moeller IZM circuit breakers. The original chassis is retained, allowing the retrofit to be completed in less than one hour, with minimal disruption





We can also retrofit circuit breakers from other manufacturers. These include:

- > All Merlin Gerin devices, Masterpact, DA, Selpact, Compact
  - > Ottermill
  - > Ellison
  - > Terasaki
  - > ABB/SACE
  - > Mitsubishi
  - > Siemens
  - > AEG
  - > Vickers
  - > GEC
- (Other manufacturers by consultation via an engineered solution)

## Get more from the experts

### Associated services

The Schneider Electric Services and Projects team can provide a comprehensive range of associated services to complement our retrofit services, these include:

- > 'Prevent' – Electrical distribution support contracts
- > Workshop maintenance and repair services
- > Installation audits and network studies

