

# Current Matters

**Siemens Protection Devices Ltd**

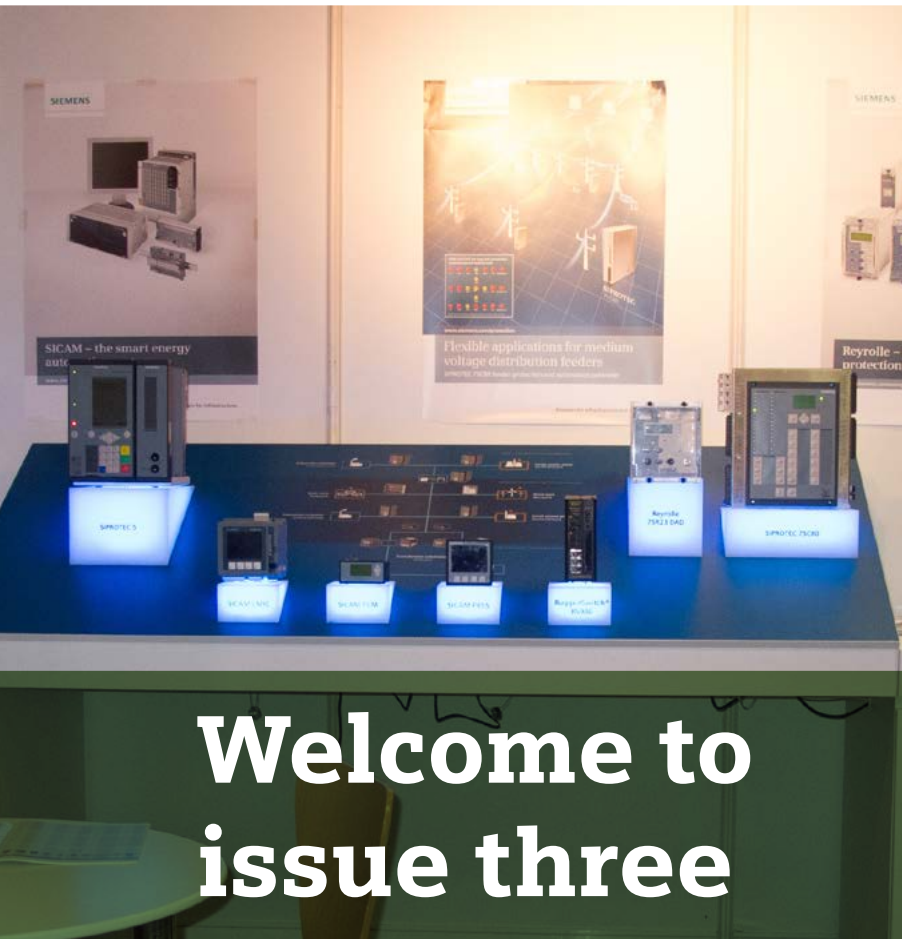
Protecting your electrical  
assets ... today and tomorrow



## The Latest Developments from SPDL

Our new products, training  
opportunities and exhibiting at  
PAC Worlds' 2014 Conference  
in Croatia





# Welcome to issue three

Dear reader,

Welcome to the third edition of "Current Matters". In this edition we have details of important new additions to the Reyrolle portfolio of products: The 7SR191 – Capa protection for application on Medium Voltage capacitor banks, 7SR157 Check and System Synchronising relay and the 7XG225 - 3RMLG Test blocks.

You will also find details of the recent TLQ training that took place in June and I hope that some of you will be able to attend the next planned training in September and November 2014.

I hope you enjoy reading our latest news and if you are interested in receiving more detailed information please contact [John.Leach@siemens.com](mailto:John.Leach@siemens.com)



## Editor

### John Leach

Head of business development  
and marketing

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## Articles

Siemens presents its finest products at the PAC World conference and exhibition

The Siemens EA MF manufacturing facility in GOA receives its audit results

Hungary modernises its tram lines with SPDL products

A hands on look at the latest Test Block system

The newest 7SR191 Capa advert featured in PAC World

A run down of June's Reyrolle product Technical Training day

A sneak peek at the upcoming 7SR157 Argus advert



## Supply approval

The Siemens EA MF manufacturing facility in GOA has recently undergone a quality audit; the audit covered the complete manufacturing process from receipt of component parts to shipping of final products. With the support of Siemens colleagues including John Leach from SPDL the factory was awarded ENA approval to supply complete 7SR relays to the UK market.



## Siemens Protection Devices on show at PAC World exhibition

From the 23rd to 26th June 2014, Siemens Protection Devices Limited took part in the 5th PAC World Protection, Automation & Control Conference and Exhibition at the University of Zagreb in Zagreb, CROATIA.

The conference continues to be one of the most important international Protection & Control events of its kind and attracts in excess of 150 delegates, protection experts and academics from around the world alongside over 20 international leading-technology exhibitors from the industry.

The new Reyrolle 7SR191 Capa capacitor bank protection and 7SR23 DAD high impedance protection relays were exhibited alongside the SIPROTEC 5 and SICAM PAS ranges as an integral part of the Siemens Energy Automation display stand. The relays were well received and generated a high level of interest from a number of major Utilities and Customers.



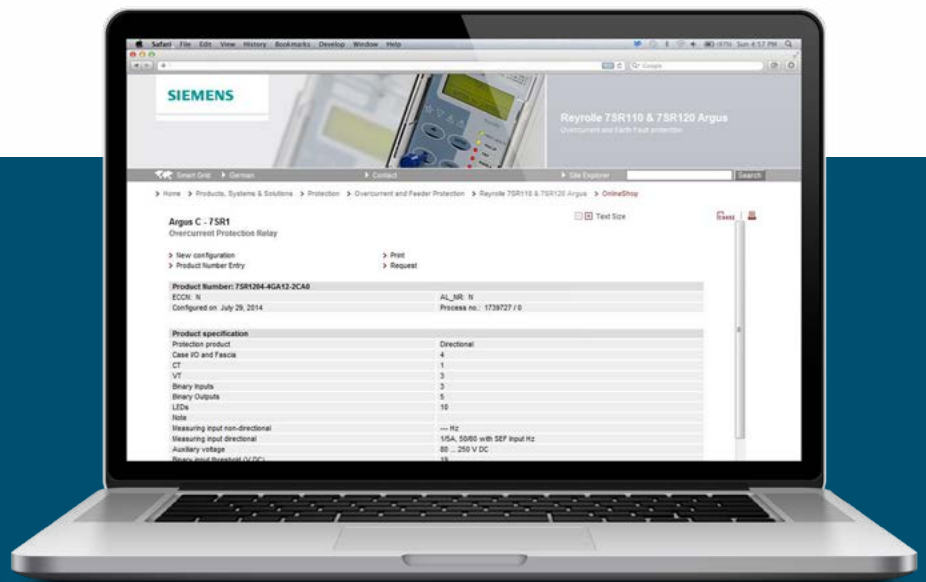
## Modernisation project

Siemens has been awarded an important strategic project in Hungary for the modernisation of tram lines. The project incorporates overcurrent protection relays from the Reyrolle and SIPROTEC 4 families, used in the medium voltage substations for traction drives. Over the past few years Michael Shiel from SPDL provided excellent customer support for this project; assisting the local Siemens colleagues to meet the high and special Hungarian technical requirements.



## Did you know?

SPDL has a New Configuration tool, making the product selection process easier for you. Find this on our website [www.siemens.com/reyrolle](http://www.siemens.com/reyrolle)



## 7XG225 - 3RMLG The New addition to Our long established Test Block system

*A Flexible and high performance test block system with a focus on operator safety. Suitable for application on a wide range of protection relay panels.*

Complementing our existing range, the 3RMLG provides:

- Injection points for up to 28 test circuits
- Automatic shorting of CT circuits completed in the test block - No test links or operator intervention required
- Isolation plug provides sequential circuit isolation timing in three (3) stages
- 'Finger safe' test sockets suit standard or shrouded type 4mm banana plugs for direct access to the protection or measurement scheme
- Clear and concise front panel circuit identification
- Test plug fitted with insertion handle and thumb screw retention system to enhance operator safety and system security
- Side label instructions on test plug for changing from normal service to the test condition

Our well known Test Block systems are designed as a general-purpose isolation and test signal injection point. There are a number of advantages in performing injection tests at the protection relay panel:

- Reduction in down time of the equipment under test
- Testing does not cause disturbance to wiring, terminals or equipment settings
- Existing auxiliary supply to the equipment under test may be isolated



Test blocks enable test technicians to quickly and safely isolate protection relays so that test signals may be injected and system performance verified.

**SIEMENS**



# 7SR191 – Capa Capacitor Bank Protection

Protecting your electrical assets, today and tomorrow

## Introducing the 7SR191 Capacitor Protection relay from Siemens

The 7SR191 Capa relay is designed to fulfil all of the necessary protection functionality for use on shunt connected distribution capacitor banks arranged in all of the common connection configurations:

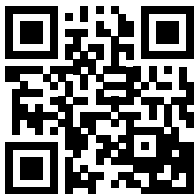
Single Star

Double Star

Delta

H Configuration

This highly comprehensive protection IED includes a range of integral application functions aimed at reducing installation, commissioning, wiring and engineering time and associated costs.



The Capa is the newest addition to the 7SR1x platform of numerical protection devices and utilises the universal, free-of-charge Reydisp configuration software package.

The Reyrolle brand offers a wide range of familiar, easy-to-use and fully withdrawable protection products that are designed to meet customers' application requirements worldwide. Scan for more information.

**Answers for infrastructure and cities.**

# Reyrolle Product Technical Training

## 9th to 13th June

SPDL invited colleagues from around the world to participate in a week long training on the Reyrolle product family. The training was held in the Hebburn factory and was fully subscribed, with colleagues from Germany, Singapore, Malaysia, UK and Kazakhstan participating.

The training included both tutorials and practical 'hands on' workshops, carried out by the product managers, in our training facility.

The following topics were included in the agenda:

### Electro – mechanical relays and their applications

#### 7SR product platform

*Argus – Overcurrent and Voltage*

*Rho - Motor*

*Capa – Capacitor Bank*

*DAD – High Impedance*

*Duobias – Transformer Differential*

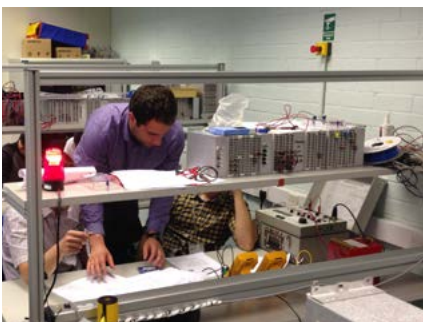
#### 7PG21 Solkor

#### Reydisp Evolution

#### Reydisp Manager – IEC61850 Configuration



Our next training sessions will be held in September (Hebburn) and November (Goa).





# 7SR157 Argus - New Check and System Synchronising Relay from Siemens

Protecting your electrical assets, today and tomorrow

7SR157 Argus is designed to re-connect two parts of a power system network. It compares line and bus voltages and will prevent closure of the circuit breaker if differences in voltage magnitude, frequency and phase angle fall outside prescribed limits.

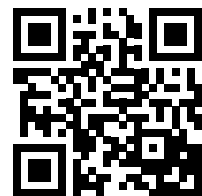
This highly comprehensive IED has all the functionality required for controlled closing of a circuit breaker – either directly or in conjunction with an autoreclose scheme:

- Check Synchronising
- System Synchronising
- Close On Zero Synchronising
- Synchronising Bypass
- Integrated Manual Close Guard Function
- Two Options to Determine Live/Dead Status of Line and Bus

Built on the proven 7SR1x platform, the 7SR157 Argus inherits the common features aimed at reducing engineering time, installation, commissioning and associated costs:

- Withdrawable relay design
- Option to program the relay from fascia
- User friendly interface
- Multiple communication protocols
- Free of charge universal software
- Extensive data monitoring and storage

For more information about the “Reyrolle” range of relays please visit [www.siemens.com/reyrolle](http://www.siemens.com/reyrolle) or scan.



Answers for infrastructure and cities.

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