Protection Testing Library

What´s New in Version 4.30

Compared to Version 4.20

1 New Protection Test Templates

A new PTL application Capacitor Bank is introduced with the *Siemens 7SJ85 V9.30 Capacitor Bank* item.

1.1 ABB REX640 V1.2.2 Line

This item contains a *Protection Test Template* for *Test Universe* and *Protection Test Templates* for *RelaySimTest* for single-end and end-to-end tests.

Features PTT for Test Universe:

> Line Differential
> Distance Protection
> Backup Overcurrent Protection
> Switch-onto Fault

Features PTT for RelaySimTest:

> Autoreclosing, 3-pole

1.1.1 XRIO Converter Parameter Import

Relay settings can be exported from the *ABB PCM600* software and imported into the **XRIO Converter** using the *Filter for ABB PCM600 .xrio Settings*.

1.2 GE MiCOM Agile P442 V91 Line

This item contains a *Protection Test Template* for *Test Universe* and *Protection Test Templates* for *RelaySimTest* for single-end and end-to-end tests.

Features PTT for Test Universe:

> Distance Protection
> Backup Overcurrent Protection
> Switch onto Fault

Features PTT for RelaySimTest:

> Auto-Reclosing, 1-/3-pole
> Aided scheme with distance protection
> Weak infeed protection

1.2.1 XRIO Converter Parameter Import

Relay settings can be exported from the *GE MiCOM S1 Agile* software and imported into the **XRIO Converter** using the *Standard Filter for XRIO Files*.

1.3 Protecta EuroProt+ E2-Line V2.10 Line

This item contains a *Protection Test Template* for *Test Universe.*

Features:

> Line Differential
> Distance Protection
> Backup Overcurrent Protection
> Switch-onto Fault

1.3.1 XRIO Converter Parameter Import

Relay settings can be exported from the *Protecta EuroCAP Parameter Tool* software and imported into the **XRIO Converter** using the *Filter for Protecta/Vivavis EuroCAP .par Settings*.

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1.4 Siemens 7SJ85 V9.30 Capacitor Bank

This item contains a *Protection Test Template* for *Test Universe.*

Features:

- Differential protection
- Voltage differential protection
- Neutral-point voltage-unbalance protection for isolated capacitor banks in star connection
- Peak overvoltage protection for capacitors
- Current-unbalance protection for capacitor banks, 3-phase
- Overcurrent protection, phases – Advanced and Basic
- Overcurrent protection, ground – Advanced and Basic
- Undercurrent protection
- Negative-sequence system overcurrent protection
- Thermal overload protection
- Undervoltage protection, 3-phase
- Overvoltage protection, 3-phase

1.4.1 XRIO Converter Parameter Import

Relay settings can be exported from the *Siemens DIGSI 5* software and imported into the **XRIO Converter** using the *Standard Filter for XRIO files*.

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2 Updated Protection Test Templates

2.1 ABB RED670 V2.2.5 Line

Changes:

> Bugfixing (temporary violation of parameter ranges in the XRIO Converter)

2.2 ABB REX640 V1.2.2 Transformer

Changes:

> Updated to match firmware V1.2.2 (product connectivity level PCL3)
> Bugfixing

2.3 ABB REX640 V1.2.2 Feeder

Changes:

> Updated to match firmware V1.2.2 (product connectivity level PCL3)
> Three-phase directional overcurrent added
> Directional earth-fault added
> Switch-onto-fault protection added

2.4 GE Multilin 869 V2.4 Motor

Changes:

> XRIO Converter parameter import functionality updated to use the importfilter *GE Enervista.csv Settings*
> Minor bugfixing

2.5 GE Multilin 845 V2.6x Transformer

Changes:

> XRIO Converter parameter import functionality updated to use the importfilter *GE Enervista.csv Settings*
> Minor bugfixing

2.6 GE Multilin F60 V8.4x Feeder

Changes:

> Updated to match firmware V8.4x
> XRIO Converter functionality extended – automation of Signal Source and AC Inputs selection
> Delete Inactive Test Modules button added
> Minor bugfixing

2.7 GE Multilin T60 V8.4x Transformer

Changes:

> Updated to match firmware V8.4x
> XRIO Converter functionality extended – automation of AC Inputs selection
> Testing improvements for reference side issues
> Bugfixing

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3 New Relay Types for Available Test Templates

3.1 GE Multilin 859 V4.0x Motor

The PTL-item *GE Multilin 869 V2.4 Motor* can be used to test this relay.

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