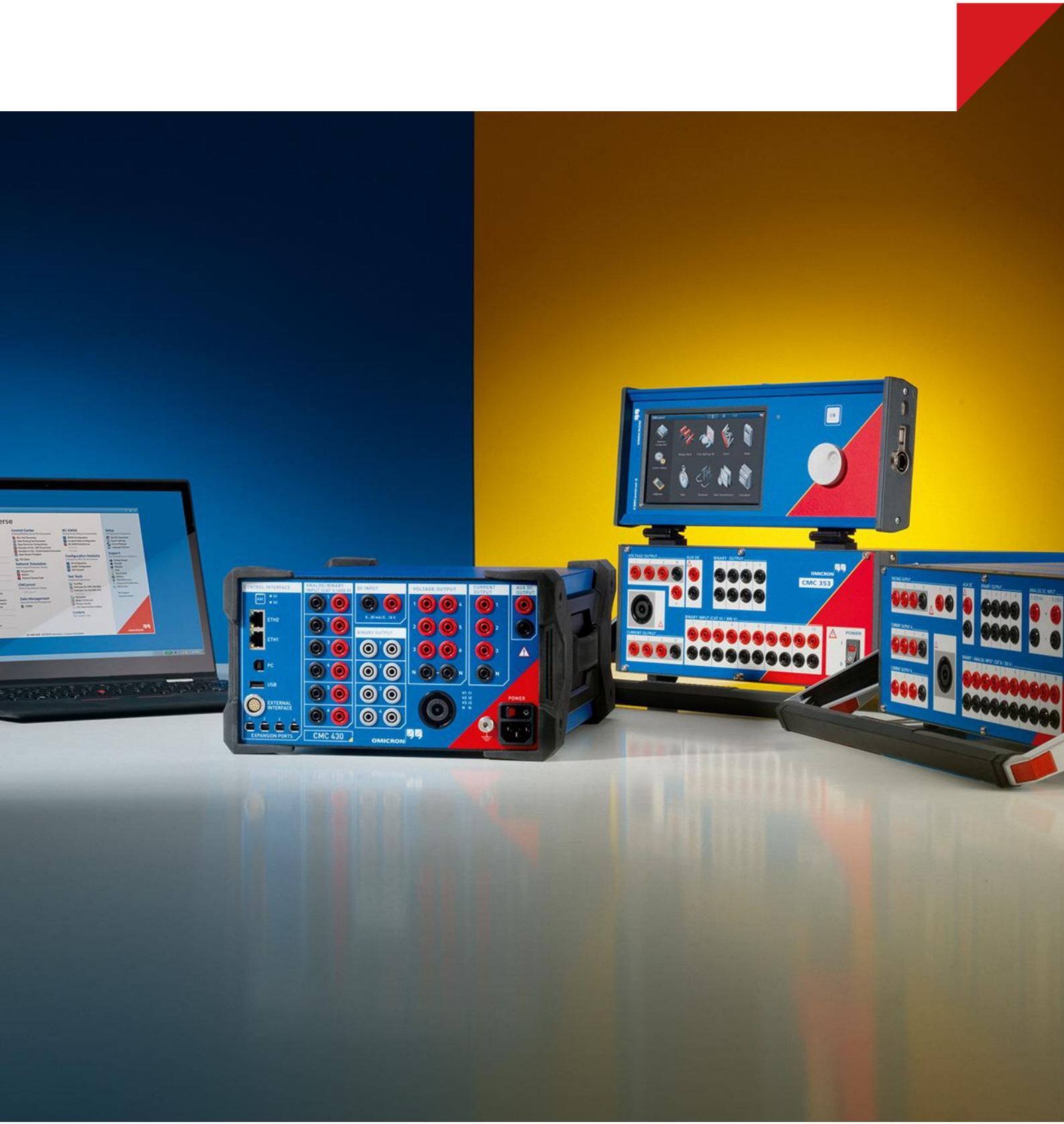


Protection Testing Library

## What's New in Version 4.50

Compared to Version 4.40



# 1 Installer Packages Updated

The updated installer packages create folders for all supported relay types of a PTL item. These folders either contain the documents of the PTL item itself or a reference to the corresponding item. To get this new feature, please reinstall the required items.

**All supported relay types of installed PTL items are then visible in the *Protection Testing Library* on the *Test Universe* start page.**

Please consider when using the complete PTL installer package (Companion software, Complete PTL Package ENU, PTL Installer update check):

If a specific relay type is not available, please check compatible PTL items on the PTL website.

## 2 New Protection Test Templates

### 2.1 ABB RED670 V2.2.5 ZMF 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.

This item replaces the former *ABB RED670 V2.2.5 Line* without changes.

**Features:**

- > Line Differential Overcurrent
- > Distance Protection ZMF, ZMFC
- > Backup Overcurrent
- > Switch On-to-Fault

#### 2.1.1 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*.

### 2.2 ABB RED670 V2.2.5 ZMQ 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:**

- > Line Differential Overcurrent
- > Distance Protection ZMQ
- > Backup Overcurrent
- > Switch On-to-Fault

#### 2.2.1 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*.

## 2.3 ABB REL670 V2.2.5 ZMC 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:

- > Line Differential Overcurrent
- > Distance Protection ZMC
- > Phase Overcurrent
- > Residual Overcurrent
- > Switch On-to-Fault

### 2.3.1 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*.

## 2.4 GE MiCOM Agile P143 V91 Feeder

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

### Features:

- > Directional Phase Overcurrent
- > Directional Earth Fault Overcurrent
- > Negative Phase Sequence Overcurrent

### 2.4.1 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*.

## 2.5 GE MiCOM Agile P14D V70 Feeder

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

### Features:

- > Directional Phase Overcurrent
- > Directional Earth Fault Overcurrent
- > Negative Phase Sequence Overcurrent

### 2.5.1 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*.

## 2.6 Schneider P3L30 V30.205 Line

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

### Features:

- > Line Differential Overcurrent
- > Distance Protection
- > Directional and non-directional phase overcurrent
- > Directional and non-directional ground fault overcurrent
- > Switch on-to-fault

## 2.7 Schneider P3M30 V30.205 Motor

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

### Features:

- > Motor start-up supervision
- > Locked rotor
- > Thermal overload
- > Negative sequence overcurrent
- > Undercurrent protection
- > Directional and non-directional phase overcurrent
- > Directional and non-directional ground fault overcurrent
- > Voltage protection
- > Negative Sequence voltage imbalance
- > Switch on-to-fault

## 2.8 Schneider MiCOM P243 D2 Motor

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

### Features:

- > Stall Detection
- > Thermal Overload
- > Motor Differential
- > Short Circuit
- > Negative Phase Sequence Overcurrent
- > Undervoltage
- > Overvoltage
- > Residual Overvoltage
- > Underfrequency
- > Reverse Power
- > Out of Step
- > Loss of Load
- > Sensitive Earth Fault
- > Derived Earth Fault

### 2.8.1 XRIO Converter Parameter Import

Relay settings can be exported from the *Schneider Electric Easergy Studio* software and imported into the **XRIO Converter** using the *Standard Filter for XRIO Files*.

## 2.9 Schneider MiCOM P430C 606 Line

Found on the attic. This item contains a *Protection Test Template* for *Test Universe*.

### Features:

- > Distance protection
- > Backup overcurrent protection
- > Switch onto Fault

### 2.9.1 XRIO Converter Parameter Import

Relay settings can be exported from the *Schneider Electric Easergy Studio* software and imported into the **XRIO Converter** using the *Standard Filter for XRIO Files*.

## **3 Updated Protection Test Templates**

### **3.1 GE Multilin C70 V8.4x Capacitor Bank**

**Changes:**

- > Phase current unbalance 60P added
- > Bugfixing – Bank voltage differential 87V pickup test instructions

### **3.2 Siemens 7SA86 V9.50 Line**

**Changes:**

- > Updated to match firmware V9.50
- > Minor bugfixing

### **3.3 Siemens 7SA87 V9.50 Line**

**Changes:**

- > Updated to match firmware V9.50
- > Minor bugfixing

### **3.4 Siemens 7SD86 V9.50 Line**

**Changes:**

- > Updated to match firmware V9.50
- > Minor bugfixing

### **3.5 Siemens 7SD87 V9.50 Line**

**Changes:**

- > Updated to match firmware V9.50
- > Minor bugfixing

### **3.6 Siemens 7SJ86 V9.50 Feeder**

**Changes:**

- > Updated to match firmware V9.50
- > Minor bugfixing

### **3.7 Siemens 7SK85 V9.50 Motor**

**Changes:**

- > Updated to match firmware V9.50
- > Bugfixing – special case for differential protection starting characteristic
- > Minor bugfixing

### **3.8 Siemens 7SL86 V9.50 Line**

**Changes:**

- > Updated to match firmware V9.50
- > Minor bugfixing

### **3.9 Siemens 7SL87 V9.50 Line**

**Changes:**

- > Updated to match firmware V9.50
- > Minor bugfixing

### **3.10 Siemens 7UM85 V9.50 Generator**

**Changes:**

- > Updated to match firmware V9.50
- > Bugfixing – special case for differential protection starting characteristic
- > Bugfixing – Advanced Power
- > Minor bugfixing

### **3.11 Siemens 7UT86 V9.50 Transformer**

**Changes:**

- > Updated to match firmware V9.50
- > Minor bugfixing

## **4 Withdrawn Protection Test Templates**

### **4.1 ABB REL670 V2.2.5 Line**

This item was replaced by the *ABB RED670 V2.2.5 ZMF Line*, see section 2.1.

## **5 New Relay Types for Available Test Templates**

### **5.1 GE Multilin L30 V8.4x Line**

The PTL-item *GE Multilin L90 V8.4x Line* can be used to test this relay.

For more information, additional literature,  
and detailed contact information of our  
worldwide offices please visit our website.

[www.omicronenergy.com](http://www.omicronenergy.com)

Subject to change without notice.