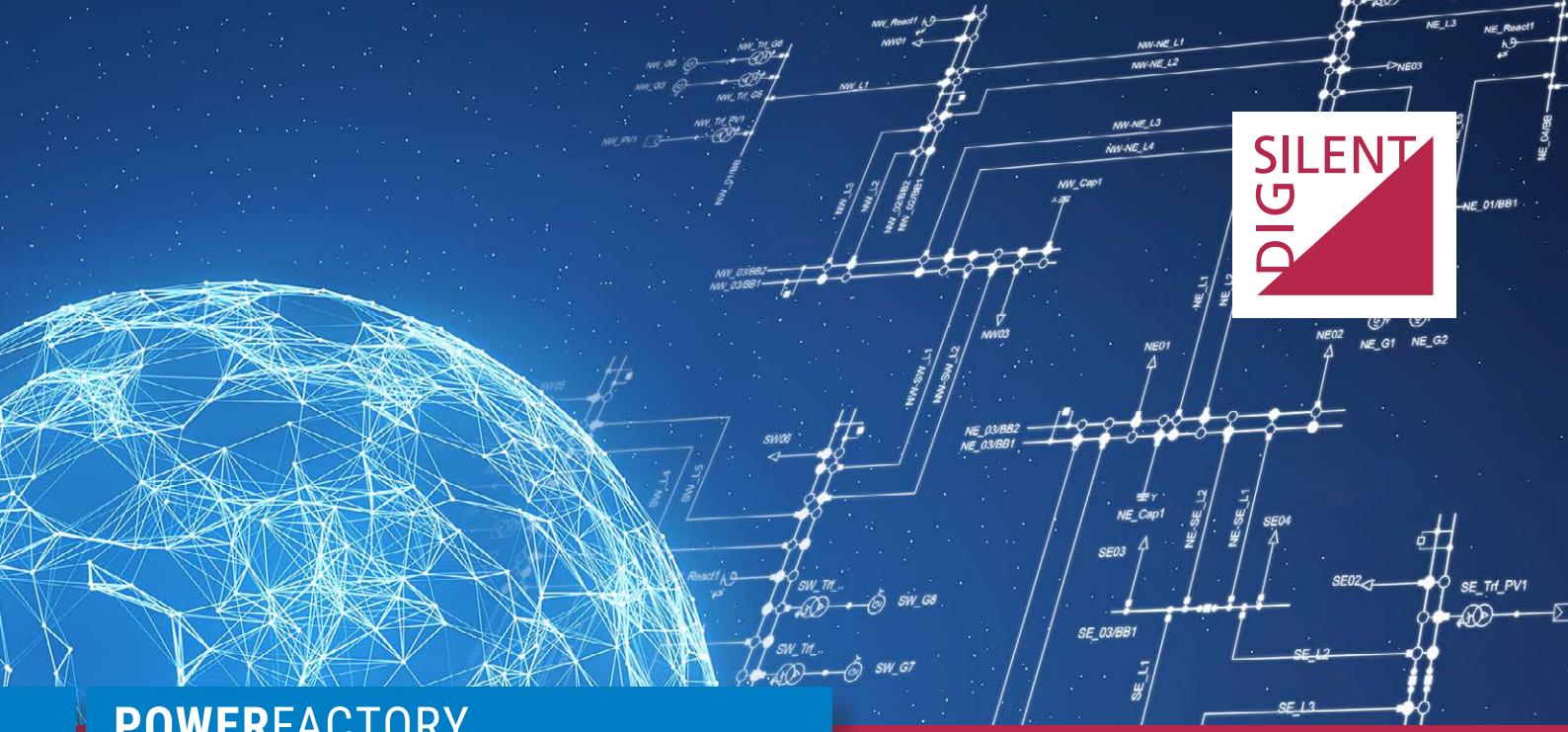

POWERFACTORY

PowerFactory 2021

Technical Reference

DIgSILENT F79 Recloser Generic Relay

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POWER SYSTEM SOLUTIONS

MADE IN GERMANY

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Contents

1 F79 Recloser

1.1 Intent

To add the reclosing feature to the protective features simulated by any other relay.

1.2 Functionality

The *F79 recloser* generic relay models a reclosing logics. No independent measurement features are present inside the model, therefore the trip logics are evaluated by the external devices which provide their trip signals.

It consists of the main relay and of the ”Protective relay a”, and ”Protective relay b”, external devices which are connected the *Reclosing* generic relay by a set of relay slots. All the input signals are provided by the external protective relay.

1.3 Inputs

The ”yout” signal must be provided by the external protective device No other relay input signal is required.

1.4 Available Units

Measurement No measurement unit is present.

Protective elements

- One reclosing element (”Reclosing ” block, [*RelRecl* class]).
- Two external relay slots (”Protective Relay a”, and ”Protective Relay b” block, [*ElmRelay* class]).

The external protective devices must be set in the ”Protective Relay a”, and ”Protective Relay b” slots of the relay (”Protective Relay a”, and ”Protective Relay b” block [*ElmRelay* class]).

Output logic

- One relay close element (”Closing logic” block, *RelLogic* class).

1.5 Outputs

As set of blocking output signals are provided to the external protective device (”Protective Relay a”, and ”Protective Relay b” block [*ElmRelay* class]).

The ”yout” relay output signal is connected to the ”Close logic” block ”yout” output signal.