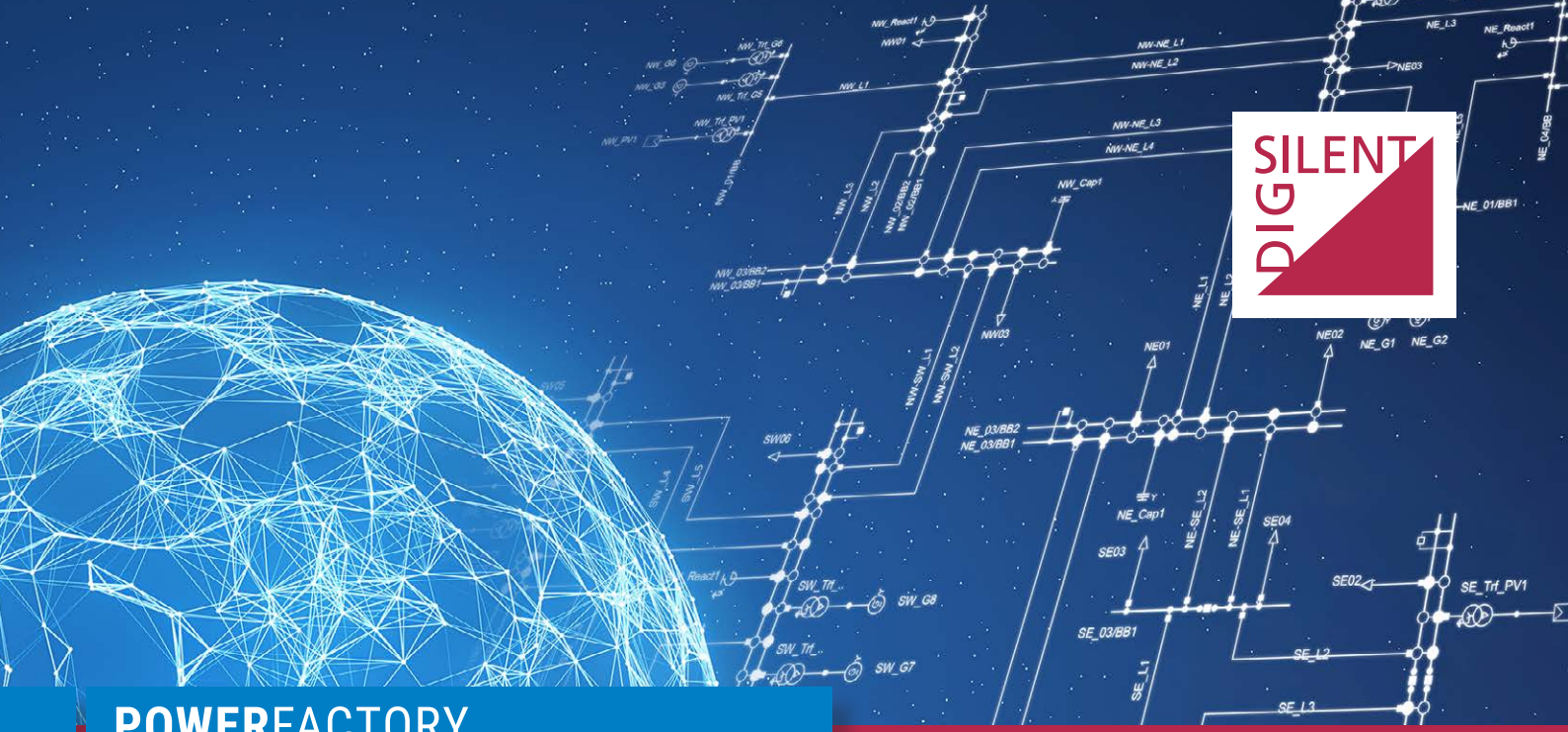

POWERFACTORY

PowerFactory 2021

Technical Reference

DIgSILENT F24 Overflux Generic Relay

PF2021

POWER SYSTEM SOLUTIONS

MADE IN GERMANY

Publisher:
DIgSILENT GmbH
Heinrich-Hertz-Straße 9
72810 Gomaringen / Germany
Tel.: +49 (0) 7072-9168-0
Fax: +49 (0) 7072-9168-88
info@digsilent.de

Please visit our homepage at:
https://www.digsilent.de

November 15, 2019
PowerFactory 2021
Revision 924

Contents

1 F24 Overflux

1.1 Intent

To simulate a set of inverse/definite time overflux elements which can be used to protect any machine (i.e. generators or transformers) .

1.2 Functionality

The *F24 Overflux* generic relay calculates the flux value which is then passed to the definite/inverse time overfluxing elements.

1.3 Inputs

- One 3 phase VT (”Phase Vt” block, *StaVt* class).

1.4 Available Units

Measurement

- One frequency measurement element (”Measurement Freq” block, [RelFmeas class]].
- One 3phase measurement element (”Measurement” block, *RMS Calculation* enabled, *Filter* disabled [RelMeasure class]).
- One flux calculation element (”Measurement Flux” block, [RelLogdip class]).

Protective elements

- Four inverse/definite time overfluxing element (”V/Hz>”, ”V/Hz>>”, ”V/Hz>>>”, and ”V/Hz>>>>”block, [*RelChar* class]).

Output logic

- One output block (”Output logic”, *RelLogdip* class).

1.5 Outputs

- *yout* associated by default to any protective element trip.

The output logic can be configured in the ”Logic” tab page of the ”Output Logic” block.