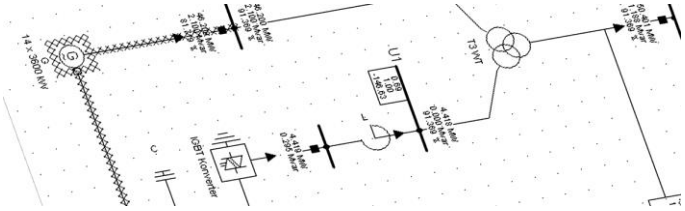

DIgSILENT Technical Documentation

VAMP 135
PowerFactory
Relay model description

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Table of Contents

1 Model general description

The VAMP 135 relay model consists of:

- Two voltage input blocks ("Vt-3P", "Residual Vt" block) connected to
  - One 3 phase VT ("Vt-3P" block).
  - One single phase VT ("Residual Vt" block) which can be used to feed the residual voltage elements. The single phase VT can be enabled using the "Ground voltage selector" block (set the relevant variable in the "Logic" tab page).
- Three phase overvoltage stages ("U>", "U>>" and "U>>>" block).
- Three phase undervoltage stages ("U<", "U<<" and "U<<<" block).
- Two residual overvoltage stages ("U0>" and "U0>>" block).
- Two over frequency stages ("f>" and "f>>" block)
- Two under frequency stages ("f<" and "f<<" block)

2 Relay not supported features

The following features are not supported:

- Circuit breaker failure protection.

3 Reference

The model implementation has been based on the information available in the "VAMP 135 Over, under residual voltage and frequency relay Operation and configuration instructions Technical description VM135.EN005" document.