

```
In [ ]: from OMPython import ModelicaSystem
import matplotlib.pyplot as plt
import pandas as pd

modelname='A4'
mod=ModelicaSystem(modelname+'.mo',modelname,['./ModSimBib/package.mo'])
mod.setSimulationOptions('stopTime=0.040')
mod.simulate()
```

Notification: Automatically loaded package Modelica 3.2.3 due to uses annotation from A4.

Notification: Automatically loaded package Complex 4.0.0 due to uses annotation from Modelica.

Notification: Automatically loaded package ModelicaServices 4.0.0 due to uses annotation from Modelica.

Notification: ModSimBib requested package Modelica of version 3.2.2. Modelica 3.2.3 is used instead which states that it is fully compatible without conversion script needed.

Notification: A4 requested package Modelica of version 3.2.2. Modelica 3.2.3 is used instead which states that it is fully compatible without conversion script needed.

Notification: Modelica requested package Complex of version 3.2.3. Complex 4.0.0 is used instead which states that it is fully compatible without conversion script needed.

Notification: Modelica requested package ModelicaServices of version 3.2.3. ModelicaServices 4.0.0 is used instead which states that it is fully compatible without conversion script needed.

Notification: ModSimBib requested package Modelica of version 3.2.2. Modelica 3.2.3 is used instead which states that it is fully compatible without conversion script needed.

Warning: The initial conditions are not fully specified. For more information set -d=initialization. In OMEdit Tools->Options->Simulation->Show additional information from the initialization process, in OMNotebook call setCommandLineOptions("-d=initialization").

```
In [ ]: task = pd.DataFrame({
    "time in s" : mod.getSolutions('time').ravel(),
    "Strom in A" : mod.getSolutions('inductor1.i').ravel(),
    "Spannung in V" : mod.getSolutions('vierqst1.u_out').ravel(),
})
task = task.set_index("time in s")

# task.plot(title=("Vierquadrantensteller"))
task.plot(subplots=True, title=("Vierquadrantensteller"))
```

```
Out[ ]: array([<Axes: xlabel='time in s'>, <Axes: xlabel='time in s'>],
      dtype=object)
```

## Vierquadrantensteller

