

abc_to_dq_2.xce

Attributes

main_vars: a b c d q cost sint

Description

abc_to_dq_2.xce employs the following equations to relate the variables a, b, c, cost, sint to d, q:

$$\begin{aligned}\alpha &= \frac{3}{2}a, \\ \beta &= \frac{\sqrt{3}}{2}(b - c), \\ q &= -\alpha \sin t + \beta \cos t, \\ d &= \alpha \cos t + \beta \sin t.\end{aligned}$$

AC behaviour is not implemented.