

dq_to_abc.xce

Attributes

main_vars: d q cost sint a b c

Description

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

$$\alpha = d \cos t - q \sin t,$$

$$\beta = d \sin t + q \cos t,$$

$$a = \frac{2}{3} \alpha,$$

$$b = -\frac{1}{3} \alpha + \frac{1}{\sqrt{3}} \beta,$$

$$c = -\frac{1}{3} \alpha - \frac{1}{\sqrt{3}} \beta.$$

AC behaviour is not implemented.