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<b>Document number</b>	Imoticon-ID700-002
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<b>Product</b>	Imoticon ID700
<b>Title</b>	Imoticon ID700 DC Injection Braking
<b>Summary</b>	This document gives information on the set up of the DC injection braking.

**NOTE:** Please read this document in conjunction with the Imoticon ID700 Easy Start Guide and Imoticon ID700 Advanced User Manual.

DC injection braking is a method of slowing down and stopping an AC motor. The ID700 injects a DC current at a specified level for a specified time in order to slow and stop the motor.

'DC injection braking on stop' can be used to slow down and stop a motor that has been running at nominal speed. It is usually used on an inertia load (for example: fan, flywheel) in order to 'lock' the motor shaft and stop it rotating.

Also DC injection braking on start can be used to stop a motor that is already spinning before the drive output ramp starts. An example would be a cooling fan which is free-wheeling because of air flowing up a chimney and over the fan blades.

## DC Injection braking on stop

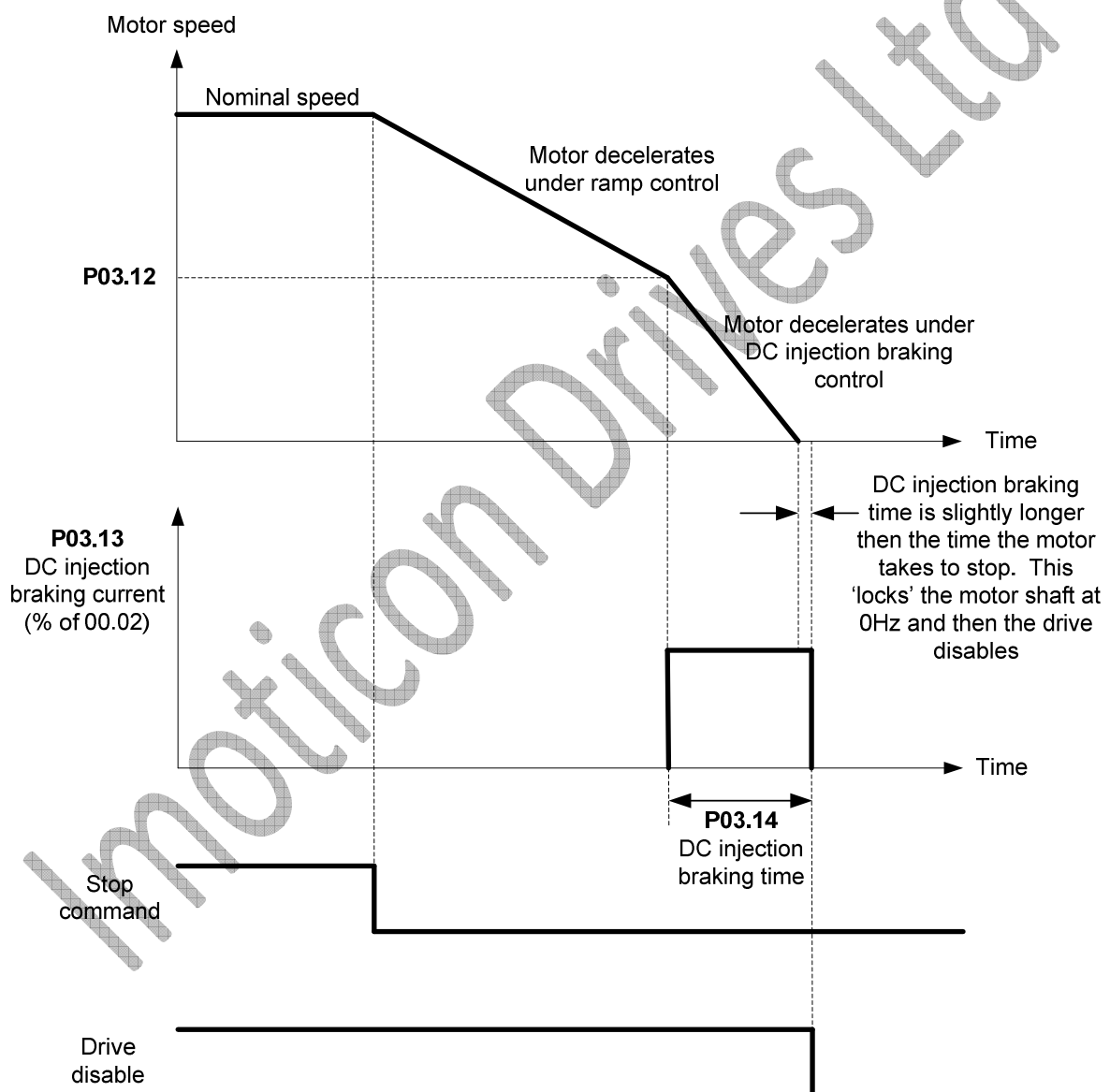
Parameter set up:

Set parameter **P03.10** to **2** : Ramp stop with DC injection braking

Set parameter **P03.12** to the desired frequency where DC injection braking starts (0.0 to 20.0Hz)

Set parameter **P03.13** to the desired DC injection braking current (0.0 to 100.0% of motor rated current)

Set parameter **P03.14** to the desired DC injection braking time (0.0 to 60.0 seconds)



## DC Injection braking on start

Parameter set up:

Set parameter **P03.05** to **1** : DC injection braking then start ramp

Set parameter **P03.08** to the desired DC injection braking current (0.0 to 100.0% of motor rated current)

Set parameter **P03.09** to the desired DC injection braking time (0.0 to 60.0 seconds)

