IMOTICON DRIVES

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Document number	Imoticon-ID700-006
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Product	Imoticon ID700

Title	Implementing preset speeds with the Imoticon ID700

Summary	This document gives information on how to set the drive up for creating up to 4 preset speeds and 8 preset speeds

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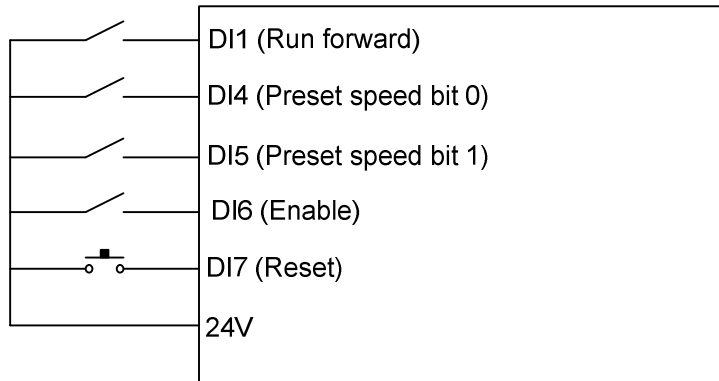
4 Preset speeds

This section gives information on how to set up the Imoticon ID700 to achieve up to 4 preset (fixed) speeds using just 2 terminals to select these speeds.

Parameter settings (from factory default settings)

P00.04 = 1 : Terminal control mode
P00.05 = 2 : Preset speed reference source
P00.23 = 1 : Extended group access
P09.05 = 0 : Preset speed bit 0
P09.06 = 1 : Preset speed bit 1

P04.01 / P00.16 = Customer set : Preset speed 1
P04.02 = Customer set : Preset speed 2
P04.03 = Customer set : Preset speed 3
P04.04 = Customer set : Preset speed 4

Terminal connections

Connect the drives control terminals as per the diagram above.

When the Enable (DI6) and Run forward (DI1) terminal are closed, if DI4 and DI5 are open, the drive will run at preset speed 1.

The drive will run at the preset speed selected by the settings of terminals DI4 and DI5 as in the table below:

DI5	DI4	Preset speed selected
Open	Open	Preset 1 (P00.16 / P04.01)
Open	Closed	Preset 2 (P04.02)
Closed	Open	Preset 3 (P04.03)
Closed	Closed	Preset 4 (P04.04)

Note: The preset speeds can be set to negative values if so desired in parameters P04.0X
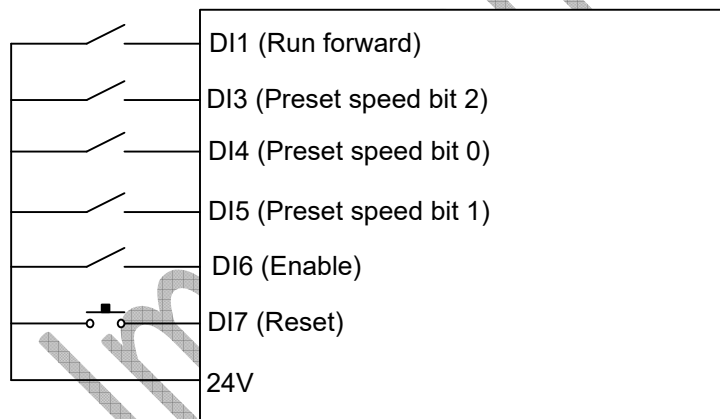
8 Preset speeds

This section gives information on how to set up the Imoticon ID700 to achieve up to 8 preset (fixed) speeds using 3 terminals to select these speeds.

Parameter settings (from factory default settings)

P00.04 = 1 : Terminal control mode
P00.05 = 2 : Preset speed reference source
P00.23 = 1 : Extended group access
P09.01 = 1 : Digital input function level control
P09.04 = 1.17 : Preset speed bit 2
P09.05 = 01.15 : Preset speed bit 0
P09.06 = 01.16 : Preset speed bit 1

P04.01 / P00.16 = Customer set : Preset speed 1
P04.02 = Customer set : Preset speed 2
P04.03 = Customer set : Preset speed 3
P04.04 = Customer set : Preset speed 4
P04.05 = Customer set : Preset speed 5
P04.06 = Customer set : Preset speed 6
P04.07 = Customer set : Preset speed 7
P04.08 = Customer set : Preset speed 8

Terminal connections

Connect the drives control terminals as per the diagram above.

When the Enable (DI6) and Run forward (DI1) terminal are closed, if DI3, DI4 and DI5 are open, the drive will run at preset speed 1.

The drive will run at the preset speed selected by the settings of terminals DI3, DI4 and DI5 as in the table below:

DI3	DI5	DI4	Preset speed selected
Open	Open	Open	Preset 1 (P00.16 / P04.01)
Open	Open	Closed	Preset 2 (P04.02)
Open	Closed	Open	Preset 3 (P04.03)
Open	Closed	Closed	Preset 4 (P04.04)
Closed	Open	Open	Preset 5 (P04.05)
Closed	Open	Closed	Preset 6 (P04.06)
Closed	Closed	Open	Preset 7 (P04.07)
Closed	Closed	Closed	Preset 8 (P04.08)

Note: The preset speeds can be set to negative values if so desired in parameters P04.0X