

## Section 8.25

### [Generic functions] - [+/- speed]

#### [+/- speed] *u P d* - Menu

##### Access

[Complete settings] → [Generic functions] → [+/- speed]

##### About This Menu

This function can be accessed if reference channel [Ref Freq 2 Config] *F r 2* is set to [Ref Frequency via DI] *u P d t*

**NOTE:** This function cannot be used with some other functions.

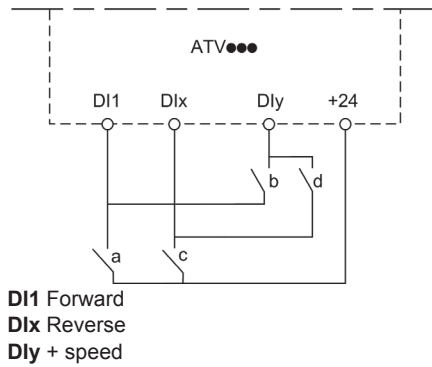
2 types of operations are available:

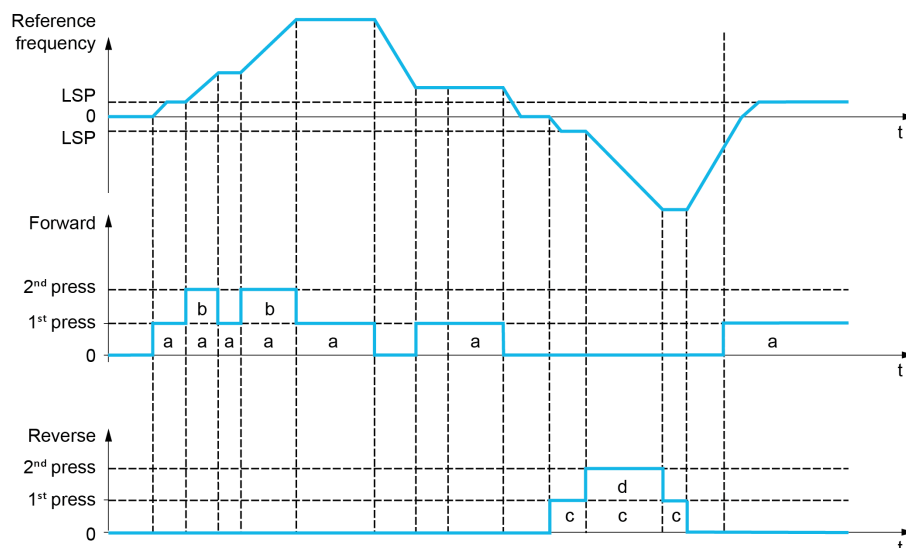
- **Use of single action keys:** 2 digital inputs are required in addition to the operating directions.  
The input assigned to the “+ speed” command increases the speed, the input assigned to the “– speed” command decreases the speed.
- **Use of double action keys:** Only one digital input assigned to “+ speed” is required.

+/- speed with double-press buttons:

Description: 1 button pressed twice (2 steps) for each direction of rotation. A contact closes each time the button is pressed.

Setting	Released (– Speed)	First Press (Speed Maintained)	Second Press (Faster)
Forward button	–	a	a and b
Reverse button	–	c	c and d





Do not use this +/- speed type with a 3-wire control.

Whichever type of operation is selected, the max. speed is set by **[High speed] HSP**.

**NOTE:** If the reference is switched via **[Freq Switch Assign] rFL** from any reference channel to another reference channel with "+/- speed", the value of reference **[Motor Frequency] rFr** (after ramp) may be copied at the same time in accordance with the **[Copy Ch1-Ch2] CcP** parameter.

If the reference is switched via **[Freq Switch Assign] rFL** from one reference channel to any other reference channel with "+/- speed", the value of reference **[Motor Frequency] rFr** (after ramp) is copied at the same time.

This helps to prevent the speed from being incorrectly reset to zero when switching takes place.

**[+ Speed Assign] u5P**

Increase speed input assignment.

Function active if the assigned input or bit is at 1.

Setting	Code / Value	Description
<b>[Not Assigned]</b>	<b>n0</b>	Not assigned <b>Factory setting</b>
<b>[DI1]...[DI8]</b>	<b>L 1 1...L 1 8</b>	Digital input DI1...DI8
<b>[DI11]...[DI16]</b>	<b>L 1 1 1...L 1 1 6</b>	Digital input DI11...DI16 if VW3A3203 I/O extension module has been inserted
<b>[CD00]...[CD10]</b>	<b>C d 0 0...C d 1 0</b>	Virtual digital input CMD.0...CMD.10 in <b>[I/O profile] ,0</b> configuration
<b>[CD11]...[CD15]</b>	<b>C d 1 1...C d 1 5</b>	Virtual digital input CMD.11...CMD.15 regardless of configuration
<b>[C101]...[C110]</b>	<b>C 1 0 1...C 1 1 0</b>	Virtual digital input CMD1.01...CMD1.10 with integrated Modbus Serial in <b>[I/O profile] ,0</b> configuration
<b>[C111]...[C115]</b>	<b>C 1 1 1...C 1 1 5</b>	Virtual digital input CMD1.11...CMD1.15 with integrated Modbus Serial regardless of configuration
<b>[C201]...[C210]</b>	<b>C 2 0 1...C 2 1 0</b>	Virtual digital input CMD2.01...CMD2.10 with CANopen® fieldbus module in <b>[I/O profile] ,0</b> configuration
<b>[C211]...[C215]</b>	<b>C 2 1 1...C 2 1 5</b>	Virtual digital input CMD2.11...CMD2.15 with CANopen® fieldbus module regardless of configuration
<b>[C301]...[C310]</b>	<b>C 3 0 1...C 3 1 0</b>	Virtual digital input CMD3.01...CMD3.10 with a fieldbus module in <b>[I/O profile] ,0</b> configuration
<b>[C311]...[C315]</b>	<b>C 3 1 1...C 3 1 5</b>	Virtual digital input CMD3.11...CMD3.15 with a fieldbus module regardless of configuration
<b>[C501]...[C510]</b>	<b>C 5 0 1...C 5 1 0</b>	Virtual digital input CMD5.01...CMD5.10 with integrated Ethernet in <b>[I/O profile] ,0</b> configuration
<b>[C511]...[C515]</b>	<b>C 5 1 1...C 5 1 5</b>	Virtual digital input CMD5.11...CMD5.15 with integrated Ethernet regardless of configuration

**[- Speed Assign] d 5 P**

Down speed input assignment. See the assignment conditions.

Parameter settings identical to **[+ Speed Assign] u 5 P**.

Function active if the assigned input or bit is at 1.

**[Ref Frequency Save] 5 t r ★**

Reference frequency saves. This parameter can be accessed if **[+ Speed Assign] u 5 P** is not set to **[Not Assigned] n o**.

Associated with the "+/- speed" function, this parameter can be used to save the reference:

- When the run commands disappear (saved to RAM).
- When the supply mains or the run commands disappear (saved to EEPROM).

Therefore, next time the drive starts up, the speed reference is the last reference frequency saved.

Setting	Code / Value	Description
<b>[No save]</b>	n o	Not saved <b>Factory setting</b>
<b>[Save to RAM]</b>	r R P	+/- speed with saving of the reference frequency in RAM
<b>[Save to EEprom]</b>	E E P	+/- speed with saving of the reference frequency in EEPROM