

TOSVERT VF-A7/P7

Instruction Manual for Parameters

F 3 7 4 and *F 3 7 5*

Thank you for purchasing the Toshiba industrial inverter "TOSVERT VF-A7/P7".

This manual describes the functions of the *F 3 7 4* and *F 3 7 5* parameters for the inverter TOSVERT VF-A7/P7.

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting
<i>F 3 7 4</i>	0374	Current control proportional gain	1.0~1000 * 1	0.1/0.1	209.1
<i>F 3 7 5</i>	0375	Current control integral gain	1.0~1250 * 1	0.1/0.1	According to model

*1 These are different before CPU version V312.

Title	Write during running	Vector control			V/f Constant
		Speed control	Torque control	Position control	
<i>F 3 7 4</i> <i>F 3 7 5</i>	Disabled	●/●	●/●	-/●	-

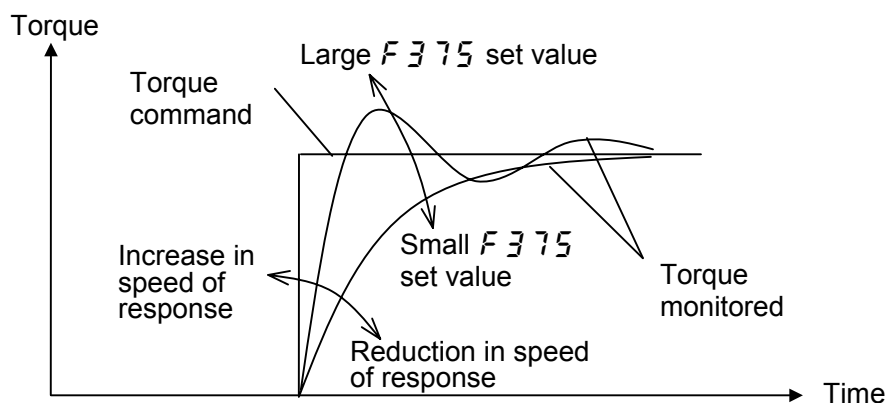
Sensorless vector / Vector with sensor (● : valid, - : invalid)

1. Functions

These parameters are used to change the speed of response to torque fluctuations and to suppress vibrations.

If the default settings present no problem, these parameters will not need to be adjusted.

2. How to adjust the parameter



1) To suppress overshooting:

Specify a smaller value for *F 3 7 5* (current control integral gain).

2) To change the speed of response:

a) To increase the speed of response:

Specify larger values for both *F 3 7 4* (current control proportional gain) and *F 3 7 5* (current control integral gain).

b) To reduce the speed of response:

Specify smaller values for both *F 3 7 4* (current control proportional gain) and *F 3 7 5* (current control integral gain).

* If the settings of *F 3 7 4* and *F 3 7 5* are changed in the same proportion, the adjustment made in 1) will not be affected by this change.