

# TOSVERT VF-A7/P7

## Instruction Manual for Parameter *F633*

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

This manual describes the functions of the *F633* parameter for the inverter TOSVERT VF-A7/P7.

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting
<i>F633</i>	0633	Trip at VI/II low level input mode	0 : Not monitored 1~100%	1/1	0

Title	Write during running	Vector control			V/f Constant
		Speed control	Torque control	Position control	
<i>F633</i>	Enabled	●/●	●/●	-/●	●

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

### 1. Functions

This parameter has the function of monitoring the frequency command input terminals (VI: 0 to 10V or II: 4 to 20 mA) to see if the input signal to them is equal to or above the value set with *F633*, and tripping the inverter (*E - 1B* trip: VI/II input error) in case the input signal drops below the level set with *F633* because of the breaking of a wire or for any other reason. This function is provided as a means of preventing the inverter from going out of control because of the breaking of a wire and continuing operation under abnormal conditions.

### 2. Parameter setting

Title	Function	Adjustment range	Setting value
<i>F004</i>	Speed setting mode selection	1~11	1(VI/II)
<i>F201</i>	VI/II reference point #1	0~100 %	Set to specified value
<i>F202</i>	VI/II reference point #1 frequency	0~ <i>FH</i>	Frequency set for <i>F201</i>
<i>F203</i>	VI/II reference point #2	0~100 %	Set to specified value
<i>F204</i>	VI/II reference point #2 frequency	0~ <i>FH</i>	Frequency set for <i>F203</i>
<i>F633</i>	Trip at VI/II low level input mode	0 : Not monitored 1~100%	1~100

3. Example of operation

To trip the inverter (*E - IB* trip) in case a cable breaks (0 mA), although operation is continued at 80 Hz when a signal of 20% (4 mA) is sent to the frequency command input terminals (II: 4 to 20 mA).  
 (Parameter settings:  $FH = 80$  Hz,  $F\text{nod} = 1$ ,  $F201 = 20\%$ ,  $F202 = 80$  Hz,  $F203 = 100\%$ ,  $F204 = 0$  Hz,  $F633 = 10\%$ )

