efesotomasyon.com -Toshiba inverter,drive,servo,plc

VF-nC3 Parameter List

Setting Date	
Customer	
End user	
Application	
Application No/Serial No	
Inverter's Type-Form	
Quantity	
Inverter's Serial No	
Motor's capacity	

If user's setting value is same as shipping value, entry column is blank.

-Terminal stand use state

	Terminal Name	Use state
Main terminal block	PA/+	
	PC/-	
	PO	
	R/L1	
	S/L2	
	T/L3	
	U/T1	
	V/T2	
	W/T3	
	E/G	
Control terminal block	FLA	
	FLB	
	FLC	
	CC	
	VI	
	P5	
	FM	
	F	
	R	
	S1	
	S2	
	CC	
	OUT	
	NO	
	P24	

efesotomasyon.com -Toshiba inverter,drive,servo,plc

1 User parameters

Title	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
FC	Operation frequency of operation panel	Hz	0.1/0.01	LL-UL	0.0		3.2.2

2 Basic parameters

- Four automatic functions or basic parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
AUH	-	History function	-	-	Displays parameters in groups of five in the reverse order to that in which their settings were changed. * (Possible to edit)	-		4.3 5.1
AUF	0093	Guidance function	-	-	0: - 1: - 2: Preset speed guidance 3: Analog signal operation guidance 4: Motor 1/2 switching operation guidance 5: Motor constant setting guidance	0		4.3 5.2
AU1	0000	Automatic acceleration/ deceleration	-	-	0: Disabled (manual setting) 1: Automatic 2: Automatic (only at acceleration)	0		5.3
AU2	0001	Torque boost setting macro function	-	-	0: Disabled 1: Automatic torque boost + auto-tuning 2: Vector control + auto-tuning 3: Energy saving + auto-tuning	0		5.4

efesotomasyon.com -Toshiba inverter,drive,servo,plc

• Basic parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
CMOd	0003	Command mode selection	-	-	0: Terminal board 1: Panel keypad (including remote keypad) 2: RS485 communication	1		3 5.5 7.3
FMOd	0004	Frequency setting mode selection	-	-	0: Terminal board VI 1: Setting dial 1 (press in center to save) 2: Setting dial 2 (save even if power is off) 3: RS485 communication 4: - 5: UP/DOWN from external logic input	2		3 5.5 6.5.1 7.3
FMSL	0005	Meter selection	-	-	0:Output frequency 1:Output current 2:Frequency reference 3:Input voltage (DC detection) 4:Output voltage (command value) 5 to 11: - 12:Frequency setting value 1 (after compensation) 13:VI input value 14:- 15:Fixed output 1 (output current 100% equivalent) 16:Fixed output 2 (output current 50% equivalent) 17:Fixed output 3 (Other than the output current) 18:RS-485 communications data 19:For adjustments (FM set value is displayed.) 20 to 22: -	0		3.4
FM	0006	Meter adjustment gain	-	-	-	-		
Fr	0008	Forward/ reverse run selection (Panel keypad)	-	-	0: Forward run 1: Reverse run 2: Forward run (F/R switching on remote keypad) 3: Reverse run(F/R switching on remote keypad)	0		5.7
ACC	0009	Acceleration time 1	S	0.1/0.1	0.0-3000	10.0		5.3
dEC	0010	Deceleration time 1	S	0.1/0.1	0.0-3000	10.0		
FH	0011	Maximum frequency	Hz	0.1/0.01	30.0-400.0	*1		5.8

*1: Depends upon the setup menu settings, See the table of last page

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
UL	0012	Upper limit frequency	Hz	0.1/0.01	0.5-FH	*1		5.9
LL	0013	Lower limit frequency	Hz	0.1/0.01	0.0-UL	0.0		
uL	0014	Base frequency 1	Hz	0.1/0.01	20.0-400.0	*1		5.10
uLu	0409	Base frequency voltage 1	V	1/0.1	50-330	*1		5.10 6.12.5
Pt	0015	V/F control mode selection	-	-	0: V/F constant 1: Variable torque 2: Automatic torque boost control 3: Vector control 4: Energy-saving	0		5.11
ub	0016	Torque boost value 1	%	0.1/0.1	0.0-30.0	* 2		5.12
tHr	0600	Motor electronic-thermal protection level 1	% (A)	1/1	10-100	100		3.5 6.16.1
OLn	0017	Electronic-thermal protection characteristic selection	-	-	Set / OL protect / OL stall 0 Standard motor: on / off 1 Standard motor: on / on 2 Standard motor: off / off 3 Standard motor: off / on 4 VF motor: on / off 5 VF motor: on / on 6 VF motor: off / off 7 VF motor: off / on	0		3.5
Sr1	0018	Preset-speed operation frequency 1	Hz	0.1/0.01	LL-UL	0.0		3.6
Sr2	0019	Preset-speed operation frequency 2	Hz	0.1/0.01	LL-UL	0.0		
Sr3	0020	Preset-speed operation frequency 3	Hz	0.1/0.01	LL-UL	0.0		
Sr4	0021	Preset-speed operation frequency 4	Hz	0.1/0.01	LL-UL	0.0		
Sr5	0022	Preset-speed operation frequency 5	Hz	0.1/0.01	LL-UL	0.0		
Sr6	0023	Preset-speed operation frequency 6	Hz	0.1/0.01	LL-UL	0.0		
Sr7	0024	Preset-speed operation frequency 7	Hz	0.1/0.01	LL-UL	0.0		

*1: Depends upon the setup menu settings. See the table of last page.
*2: Parameter values vary depending on the capacity. See the table of last page.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
tYP	0007	Default setting	-	-	0:- 1:50Hz default setting 2:60Hz default setting 3:Default setting(Initialization) 4:Trip record clear 5:Cumulative operation time clear 6:Initialization of type information 7:Save user setting parameters 8:Load user setting parameters 9:Cumulative fan operation time record clears 10 to 12: - 13:Default setting 2 (Complete initialization)	0		4.3 4.3.2
SEt	009	Checking the region setting	-	-	0:Start setup menu 1:Japan(read only) 2:North America(read only) 3:Asia (read only) 4:Europe (read only)	*1		4.4
PSEL	0050	Registered parameters display selection	-	-	0:Standard setting mode at power on 1:Easy setting mode at power on 2:Easy setting mode only	0		4.5
F1--	-	Extended parameter starting at 100	-	-	-	-	-	4.2.2
F2--	-	Extended parameter starting at 200	-	-	-	-	-	
F3--	-	Extended parameter starting at 300	-	-	-	-	-	
F4--	-	Extended parameter starting at 400	-	-	-	-	-	
F5--	-	Extended parameter starting at 500	-	-	-	-	-	
F6--	-	Extended parameter starting at 600	-	-	-	-	-	
F7--	-	Extended parameter starting at 700	-	-	-	-	-	
F8--	-	Extended parameter starting at 800	-	-	-	-	-	
Gr.U	-	Automatic edit function	-	-	-	-	-	4.3.1

*1:Depends upon the setup menu settings. See the table of last page.
The region is set to 1 to 4 when parameter SEt is read. To re-select a region, set "0" to start up the setup menu.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

3 Extended parameters

- Input/output parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F100	0100	Low-speed signal output frequency	Hz	0.1/0.01	0.0-FH	0.0		6.1.1
F101	0101	Speed reach setting frequency	Hz	0.1/0.01	0.0-FH	0.0		6.1.3
F102	0102	Speed reach detection band	Hz	0.1/0.01	0.0-FH	2.5		6.1.2 6.1.3
F105	0105	Priority selection (Both F and R are ON)	-	-	0: Reverse 1: Slowdown Stop	1		6.2.1
F108	0108	Always active function selection 1	-	-	0-123	0 (No function)		6.3.2
F109	0109	Analog/logic input Selection (VI terminal)	-	-	0: Voltage signal input (0-10V) 1: Current signal input (4-20mA) 2: Logic input 3: Voltage signal input (0-5V)	0		6.2.2 6.3.3 6.5.2 7.2.1 7.3
F110	0110	Always active function selection 2	-	-	0-123	6 (ST)		6.3.2
F111	0111	Input terminal selection1A (F)	-	-	0-201	2 (F)		6.3.3 6.5.1 7.2.1
F112	0112	Input terminal selection 2A (R)	-	-	0-201	4 (R)		
F113	0113	Input terminal selection 3A (S1)	-	-	0-201	10 (SS1)		
F114	0114	Input terminal selection4A (S2)	-	-	0-201	12 (SS2)		
F115	0115	Input terminal selection 5 (VI)	-	-	8-55	14 (SS3)		
F127	0127	Sink/source switching	-	-	0: Sink, 100: Source 1-99, 101-255: invalid	*1		6.3.1

* 1: Depends upon the setup menu settings. See the table of last page.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communi caton No.	Function	Unit	Minimum setting unit Panel/Com munication	Adjustment range	Default setting	User setting	Reference
F130	0130	Output terminal selection 1A (OUT)	-	-	0-255	4 (LOW)		6.3.4 7.2.2
F132	0132	Output terminal selection 2(FL)	-	-	0-255	10 (FL)		
F137	0137	Output terminal selection 1B (OUT)	-	-	0-255	255 (always ON)		
F139	0139	Output terminal logic selection (OUT)	-	-	0: F130 and F137 1: F130 or F137	0		6.3.4 7.2.2
F144	0144	Factory specific coefficient 1A	-	-	-	-		*1
F151	0151	Input terminal selection 1B (F)	-	-	0-201	0		6.3.3 6.5.1 7.2.1
F152	0152	Input terminal selection 2B (R)	-	-	0-201	0		
F153	0153	Input terminal selection 3B (S1)	-	-	0-201	0		
F154	0154	Input terminal selection 4B (S2)	-	-	0-201	0		
F155	0155	Input terminal selection 1C (F)	-	-	0-201	0		
F156	0156	Input terminal selection 2C (R)	-	-	0-201	0		

*1: Factory specific coefficients are parameters exclusively for manufacturer settings. Do not change these parameters.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

• Basic parameter 2

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F170	0170	Base frequency 2	Hz	0.1/0.01	20.0-400.0	* 1		6.4.1
F171	0170	Base frequency voltage 2	Hz	1/0.1	50-330	* 1		
F172	0172	Torque boost value 2	%	0.1/0.1	0.0-30.0	* 2		
F173	0173	Motor electronic -thermal protection level 2	% (A)	1/1	10-100	100		5.13 6.4.1 6.16.1
F185	0185	Stall prevention level 2	% (A)	1/1	10-199 200 (disabled)	150		6.4.1 6.19.2

• Frequency parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F201	0201	VI Setting of Input point 1	%	1/1	0-100	0		6.5.2 7.3
F202	0202	Frequency VI input point 1	Hz	0.1/0.01	0.0-400.0	0.0		
F203	0203	Setting of VI input point 2	%	1/1	0-100	100		
F204	0204	Frequency of VI input point 2	Hz	0.1/0.01	0.0-400.0	*1		
F209	0209	Analog input filter	ms	1/1	4-1000	64		
F240	0240	Starting frequency setting	Hz	0.1/0.01	0.1-10.0	0.5		6.6.1
F241	0241	Operation starting frequency	Hz	0.1/0.01	0.0-FH	0.0		6.6.2
F242	0242	Operation starting frequency hysteresis	Hz	0.1/0.01	0.0-FH	0.0		
F249	0249	Factory specific coefficient 2A	-	-	-	-		*3
F250	0250	DC braking starting frequency	Hz	0.1/0.01	0.0-FH	0.0		6.7.1

*1 : Depends upon the setup menu settings. See the table of last page.
*2 : Parameter values vary depending on the capacity. See the table of last page.
*3 : Factory specific coefficients are parameters exclusively for manufacturer settings.
Do not change these parameters.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F251	0251	DC braking current	% (A)	1/1	0-100	50		6.7.1
F252	0252	DC braking time	s	0.1/0.1	0.0-25.5	1.0		
F256	0256	Time limit for lower-limit Frequency operation	s	0.1/0.1	0:Disabled 0.1-600.0	0.0		6.81
F264	0264	External logic Input-UP response time	s	0.1/0.1	0.0-10.0	0.1		6.5.3
F265	0265	External logic input - UP frequency steps	Hz	0.1/0.01	0.0-FH	0.1		
F266	0266	External logic Input-DOWN response time	s	0.1/0.01	0.0-10.0	0.1		
F267	0267	External logic Input-DOWN frequency steps	Hz	0.1/0.1	0.0-FH	0.1		
F268	0268	Initial value of UP/DOWN frequency	Hz	0.1/0.01	LL-UL	0.0		
F269	0269	Change of the initial value of UP/DOWN frequency	-	-	0: Not changed 1: Setting of F268 changed when power is turned off	1		
F270	0270	Jump frequency	Hz	0.1/0.01	0.0-FH	0.0		6.9
F271	0271	Jumping width	Hz	0.1/0.01	0.0-30.0	0.0		
F287	0287	Preset-speed frequency 8	Hz	0.1/0.01	LL-UL	0.0		3.6 6.10
F288	0288	Preset-speed frequency 9	Hz	0.1/0.01	LL-UL	0.0		
F289	0289	Preset-speed frequency 10	Hz	0.1/0.01	LL-UL	0.0		
F290	0290	Preset-speed frequency 11	Hz	0.1/0.01	LL-UL	0.0		
F291	0291	Preset-speed frequency 12	Hz	0.1/0.01	LL-UL	0.0		
F292	0292	Preset-speed frequency 13	Hz	0.1/0.01	LL-UL	0.0		
F293	0293	Preset-speed frequency 14	Hz	0.1/0.01	LL-UL	0.0		
F294	0294	Preset-speed frequency 1	Hz	0.1/0.01	LL-UL	0.0		

efesotomasyon.com -Toshiba inverter,drive,servo,plc

- Operation mode parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F300	0300	PWM carrier frequency	kHz	1/1	2 - 16	12		6.11
F301	0301	Auto-restart control selection	-	-	0: Disabled 1: At auto-restart after momentary stop 2: At ST terminal off and on 3: 1+2 4: At start-up	0		6.12.1
F302	0302	Regenerative power ride-through control (Deceleration stop)	-	-	0: Disabled 1: Automatic setting 2: Slowdown stop	0		6.12.2
F303	0303	Retry selection (number of times)	Times	1/1	0: Disabled 1-10	0		6.12.3
F305	0305	Overvoltage limit operation (Slowdown stop mode selection)	-	-	0: Automatic setting 1: Disabled 2: Enabled (Quick deceleration) 3: Enabled (Dynamic quick deceleration)	2		6.12.4
F307	0307	Supply voltage correction (limitation of output voltage)	-	-	0: Supply voltage uncorrected, output voltage limited 1: Supply voltage corrected, output voltage limited 2: Supply voltage uncorrected, output voltage unlimited 3: Supply voltage corrected, output voltage unlimited	* 1		6.12.5
F311	0311	Reverse-run prohibition	-	-	0:Forward/reverse run permitted 1:Reverse run prohibited 2:Forward run prohibited	0		6.12.6
F312	0312	Random mode	-	-	0:Disabled 1:Automatic setting	0		6.11
F316	0316	Carrier frequency control mode selection	-	-	0: Carrier frequency without reduction 1: Carrier frequency with automatic reduction	1		6.11

*1 : Default values vary depending on the capacity. See the table of last page.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F359	0359	PID control waiting time	s	1/1	0-2400	0		6.13
F360	0360	PID control	-	-	0: Disabled, 1: Enabled	0		
F362	0362	Proportional gain	-	0.01/0.01	0.01-100.0	0.30		
F363	0363	Integral gain	-	0.01/0.01	0.01-100.0	0.20		
F366	0366	Differential gain	-	0.01/0.01	0.00-2.55	0.00		
F380	0380	PID forward/ reverse characteristics selection	-	-	0: Forward 1: Reverse	0		
F391	0391	Auto-stop hysteresis in case of lower-limit frequency continuous operation	Hz	0.1/0.01	0.0-UL	0.2		6.8.1

- Torque boost parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F400	0400	Auto-tuning	-	-	0: Auto-tuning disabled 1: Initialization of F402 (reset to 0) 2: Auto-tuning enabled (after execution: 0)	0		6.14
F401	0401	Slip frequency gain	%	1/1	0-150	50		
F402	0402	Automatic torque boost value	%	0.1/0.1	0.0-30.0	* 1		
F405	0405	Motor rated capacity	kW	0.01/0.01	0.01-5.50	* 1		
F412	0412	Motor specific coefficient 1	-	-	-	-		* 3
F415	0415	Motor rated current	A	0.1/0.1	0.1-30.0	* 1		6.14
F416	0416	Motor no-load current	%	1/1	10-90	* 1		
F417	0417	Rated motor speed	min^{-1}	1/1	100-32000	* 2		

*1: Parameter values vary depending on the capacity. See the table of last page.
*2: Depends upon the setup menu settings. See the table of last page.
*3: Motor specific coefficient 1 to 9 are parameters exclusively for manufacturer settings. Do not change these parameter.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F458	0458	Motor specific coefficient 2	-	-	-	-		* 1
F459	0459	Load inertia moment ratio	Times	0.1/0.1	0.1-100.0	1.0		6.14
F460	0460	Motor specific coefficient 3	-	-	-	-		* 1
F461	0461	Motor specific coefficient 4	-	-	-	-		
F462	0462	Motor specific coefficient 5	-	-	-	-		
F467	0467	Motor specific coefficient 6	-	-	-	-		

*1: Motor specific coefficient 1 to 9 are parameters exclusively for manufacturer settings. Do not change these parameter.

- Input/output parameters2

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F470	0470	VI input bias	-	1/1	0-255	128		6.5.4
F471	0471	VI input gain	-	1/1	0-255	128		

- Torque boost parameters2

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F480	0480	Motor specific coefficient 7	-	-	-	-		* 1
F485	0485	Motor specific coefficient 8	-	-	-	-		
F495	0495	Motor specific coefficient 9	-	-	-	-		

*1 : Motor specific coefficient 1 to 9 are parameters exclusively for manufacturer settings. Do not change these parameter.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

- Acceleration/deceleration time parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F500	0500	Acceleration time 2	s	0.1/0.1	0.0-3000	10.0		6.15
F501	0501	Deceleration time 2	s	0.1/0.1	0.0-3000	10.0		
F502	0502	Acceleration/ deceleration 1 pattern	-	-	0: Linear 1: S-pattern 1 2: S-pattern 2	0		
F503	0503	Acceleration/ deceleration 2 pattern	-	-		0		
F505	0505	Acceleration/ deceleration 1 and 2 switching frequency	Hz	0.1/0.01	0.0(disabled) 0.1-UL	0.0		

- Protection parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F601	0601	Stall prevention level 1	% (A)	1/1	10-199, 200 (disabled)	150		6.16.2
F602	0602	Inverter trip retention selection	-	-	0:Cleared with the power off 1:Retained with the power off	0		6.16.3
F603	0603	Emergency stop selection	-	-	0:Coast stop 1:Slowdown stop 2:Emergency DC braking	0		6.16.4
F605	0605	Output phase failure detection selection	-	-	0:Disabled 1:At start-up(only one time after power on) 2:At start-up(each time)	0		6.16.5
F607	0607	Motor150%-overload detection time	s	1/1	10-2400	300		3.5 6.16.1
F608	0608	Input phase failure detection selection	-	-	0: Disabled, 1: Enabled	1		6.16.6
F609	0609	Small current detection hysteresis	%	1/1	1-20	10		6.16.7
F610	0610	Small current trip/alarm selection	-	-	0: Alarm only 1: Tripping	0		
F611	0611	Small current detection current	% (A)	1/1	0-150	0		
F612	0612	Small current detection time	s	1/1	0-255	0		

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F613	0613	Detection of output short-circuit at start-up	-	-	0: Each time(standard pulse) 1: Only one time after power on(standard pulse) 2: Each time(short-time pulse) 3: Only one time after power on(short pulse)	0		6.16.8
F615	0615	Over-torque trip/alarm selection	-	-	0: Alarm only 1: Tripping	0		6.16.9
F616	0616	Over-torque detection level	%	1/1	0(disabled) 1-200	150		
F618	0618	Over-torque detection time	s	0.1/0.1	0.0-10.0	0.5		
F619	0619	Over-torque detection hysteresis	%	1/1	0-100	10		
F620	0620	cooling fan ON/OFF control	-	-	0:ON/OFF control 1:Always ON	0		6.16.10
F621	0621	Cumulative operation time alarm setting	100 Time	0.1/0.1 (=10 hours)	0.0-999.9	610		6.16.11
F627	0627	Under-voltage trip/alarm selection	-	-	0: Alarm only (detection level below 64%) 1: Tripping (detection level below 64%) 2: Alarm only (detection level below 50%, or AC reactor required)	0		6.16.12
F631	0631	Factory specific coefficient 6A	-	-	-	-		* 1
F632	0632	Electronic thermal memory	-	-	0:Deselect 1:Enabled	0		5.13 6.16.1
F633	0633	VI analog input break detection level	%	1/1	0: Disabled, 1-100	0		6.16.13
F634	0634	Annual average ambient temperature (parts replacement alarms)	-	-	1: -10 to +10℃ 2: 11-20℃ 3: 21-30℃ 4: 31-40℃ 5: 41-50℃ 6: 51-60℃	3		6.16.14

*1: Factory specific coefficients are parameters exclusively for manufacturer settings.
Do not change these parameters.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

• Output parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F669	0669	Logic output/pulse train output selection (OUT-NO)	-	-	0: Logic output 1: Pulse train output	0		6.17.1
F676	0676	Pulse train output function selection (OUT-NO)	-	-	0:Output frequency 1:Output current 2:Frequency reference 3:Input voltage (DC detection) 4:Output voltage (command value) 5-11:- 12:Frequency setting value (after compensation) 13:VI Input value 14:- 15:Fixed output 1 (output current: 100% equivalent) 16:Fixed output 2 (output current: 50% equivalent) 17: Fixed output 3 (other than the output current) 18:Communication data 19 to 22	0		6.17.1
F677	0677	Maximum numbers of pulse train	kpps	0.01/0.01	0.5-1.60	0.8		
F678	0678	Factory Specific coefficient 6B	-	-	-	-		* 1
F681	0681	Analog output signal selection	-	-	0:Meter option (0 to 1 mA) 1:Current (0 to 20 mA) output 2:Voltage (0 to 10V) output	0		6.17.2
F684	0864	Factory specific coefficient 6C	-	-	-	-		* 1
F691	0691	Inclination characteristic of analog output	-	-	0: Negative inclination (downward slope) 1: Positive inclination (upward slope)	1		6.17.2
F692	0692	Analog output bias	%	0.1/0.1	-1.0－+100.0	0		
F693	0693	Factory specific coefficient 6D	-	-	-			* 1

*1: Factory specific coefficients are parameters exclusively for manufacturer settings. Do not change these parameters

efesotomasyon.com -Toshiba inverter,drive,servo,plc

• Operation panel parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F700	0700	Parameter write protection selection	-	-	0: Permitted 1: Panel and extension panel inhibited 2:1+RS485communications inhibited	0		6.18 .1
F701	0701	Current/ voltage unit selection	-	-	0:% 1:A (ampere)/V (volt)	0		6.18.2
F702	0702	Free unit display scale	Times	0.01/0.01	0.00: Disabled (display of frequency) 0.01-200.0	0.00		6.18.3
F707	0707	Free step 1 (1-step rotation of setting dial)	Hz	0.01/0.01	0.00: Disabled 0.01-FH	0.00		6.18.4
F710	0710	Initial panel display selection	-	-	0:Operation frequency (Hz/free unit) 1:Output current(%/A) 2:Frequency setting value (Hz/free unit) 3 to 17:- 18:Arbitary display according to communications	0		6.18.5 8.2.1
F711	0711	Status monitor 1	-	-	0:Operation frequency (Hz/free unit) 1:Output current(%/A) 2:Frequency setting Value (Hz/free unit) 3:Input voltage(DC detection) (%/V) 4:Output voltage (command value)(%/V) 5:Input power(kW) 6:Output power(kW) 7:Torque(%) 8:Torque current(%/A) 9 to 11:- 12:Frequency setting value (after compensation) 13 to 22:- 23:PID feedback value (Hz/free unit) 24 to 26:- 27:Drive load factor (%)	2		8.2.1 8.3.2
F712	0712	Status monitor 2	-	-		1		
F713	0713	Status monitor 3	-	-		3		
F714	0714	Status monitor 4	-	-		4		
F715	0715	Status monitor 5	-	-		27		
F716	0716	Status monitor 6	-	-		0		
F720	0720	Initial remote keypad display selection	-	-	0:Operation frequency (Hz/free unit) 1:Output current(%/A) 2:Frequency setting value (Hz/free unit) 3 to 17:- 18:Arbitrary display according to communications	0		6.18.5 8.2.1

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F730	0730	Panel frequency setting prohibition(FC)	-	-	0: Permitted 1: Prohibited	0		6.18.1
F732	0732	Local/remote operation prohibition for remote keypad	-	-	0:Permitted 1:Prohibited	1		
F733	0733	Panel operation prohibition (RUN/STOP keys)	-	-	0: Permitted 1: Prohibited	0		
F734	0734	Prohibition of panel emergency stop operation	-	-	0: Permitted 1: Prohibited	0		
F735	0735	Prohibition of panel reset operation	-	-	0: Permitted 1: Prohibited	0		
F736	0736	CMOd/ FMOd change prohibition during operation	-	-	0: Permitted 1: Prohibited	1		
F738	0738	Password setting (F700)	-	-	0:No password set 1-9998,9999:password set	0		
F739	0739	Password examination	-	-	0:No password set 1-9998,9999:Password set	0		
F746	0746	Factory specific coefficient 7A	-	-	-	-		* 1
F751	0751	Easy setting mode parameter 1	-	-	0-999 (Set by communication number)	3		4.5
F752	0752	Easy setting mode parameter 2	-	-		4		
F753	0753	Easy setting mode parameter 3	-	-		9		
F754	0754	Easy setting mode parameter 4	-	-		10		
F755	0755	Easy setting mode parameter 5	-	-		600		
F756	0756	Easy setting mode parameter 6	-	-		6		
F757	0757	Easy setting mode parameter 7	-	-		999		

*1: Factory specific coefficients are parameters exclusively for manufacturer settings. Do not change these parameters.

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F758	0758	Easy setting mode parameter 8	-	-	0-999 (Set by communication number)	999		4.5
F759	0759	Easy setting mode parameter 9	-	-		999		
F760	0760	Easy setting mode parameter 10	-	-		999		
F761	0761	Easy setting mode parameter 11	-	-		999		
F762	0762	Easy setting mode parameter 12	-	-		999		
F763	0763	Easy setting mode parameter 13	-	-		999		
F764	0764	Easy setting mode parameter 14	-	-		999		
F765	0765	Easy setting mode parameter 15	-	-		999		
F766	0766	Easy setting mode parameter 16	-	-		999		
F767	0767	Easy setting mode parameter 17	-	-		999		
F768	0768	Easy setting mode parameter 18	-	-		999		
F769	0769	Easy setting mode parameter 19	-	-		999		
F770	0770	Easy setting mode parameter 20	-	-		999		
F771	0771	Easy setting mode parameter 21	-	-		999		
F772	0772	Easy setting mode parameter 22	-	-		999		
F773	0773	Easy setting mode parameter 23	-	-		999		
F774	0774	Easy setting mode parameter 24	-	-		999		

efesotomasyon.com -Toshiba inverter,drive,servo,plc

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F799	0799	Factory specific coefficient 7B	-	-	-	-		* 1

*1: Factory specific coefficients are parameters exclusively for manufacturer settings. Do not change these parameters.

• Communication parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F800	0800	Baud rate	-	-	3: 9600bps 4: 19200bps 5: 38400bps	4		6.19
F801	0801	Parity	-	-	0: NON (No parity) 1: EVEN (Even parity) 2: ODD (Odd parity)	1		
F802	0802	Inverter number	-	1/1	0-247	0		
F803	0803	Communication time-out time	s	1/1	0: (disabled) 1-100	0		
F804	0804	Communication time-out action	-	-	0:Alam only 1:Trip(Coast stop) 2:Trip(Slowdown stop)	0		
F808	0808	Communication time-out detection condition	-	-	0:Always 1:When FNOd or CNOd communication is selected 2:1+during operation	1		
F829	0829	Selection of communication protocol	-	-	0: Toshiba inverter protocol 1: Modbus RTU protocol	0		
F870	0870	Block write data 1	-	-	0: No selection 1: Command information 2: - 3: Frequency setting 4: Output data on the terminal board 5: Analog output for communications	0		
F871	0871	Block write data 2	-	-		0		
F875	0875	Block read data 1	-	-	0: No selection 1: Status information 2: Output frequency 3: Output current 4: Output voltage 5: Alarm information 6: PID feedback value 7: Input terminal board monitor 8: Output terminal board monitor 9: VI terminal board monitor	0		
F876	0876	Block read data 2	-	-		0		
F877	0877	Block read data 3	-	-		0		
F878	0878	Block read data 4	-	-		0		
F879	0879	Block read data 5	-	-		0		
F880	0880	Free notes	-	1/1	0-65535	0		6.20

efesotomasyon.com -Toshiba inverter,drive,servo,plc

- Default settings by inverter rating

Inverter type	Torque boost value	Automatic Torque boost value	Motor rated current	Motor rated current	Motor no-load current
	ub/F 172 (%)	F402 (%))	F405 (kW)	F415 (A)	F416 (%)
VFnC3S-1001P	6.0	10.3	0.10	0.6	75
VFnC3S-1002P	6.0	8.3	0.20	1.2	70
VFnC3S-1004P	6.0	6.2	0.40	2.0	65
VFnC3S-1007P	6.0	5.8	0.75	3.4	60
VFnC3S-2001PL	6.0	10.3	0.10	0.6	75
VFnC3S-2002PL	6.0	8.3	0.20	1.2	70
VFnC3S-2004PL	6.0	6.2	0.40	2.0	65
VFnC3S-2007PL	6.0	5.8	0.75	3.4	60
VFnC3S-2015PL	6.0	4.3	1.50	6.2	55
VFnC3S-2022PL	5.0	4.1	2.20	8.9	52
VFnC3-2001P	6.0	10.3	0.10	0.6	75
VFnC3-2002P	6.0	8.3	0.20	1.2	70
VFnC3-2004P	6.0	6.2	0.40	2.0	65
VFnC3-2007P	6.0	5.8	0.75	3.4	60
VFnC3-2015P	6.0	4.3	1.50	6.2	55
VFnC3-2022P	5.0	4.1	2.20	8.9	52
VFnC3-2037P	5.0	3.4	4.00	14.8	48

Default settings by setup menu

Setting	Main regions	Max. frequency	Frequency	Base frequency voltage	Sink/source switching	Supply voltage correction (output voltage limitation)	Motor rated speed
		FH (Hz)	UL/uL/ F170/F204 (Hz)	uLu/F171 (V)	F127	F307	F417 (min^{-1})
JP	Japan	80.0	60.0	200	0 (Sink)	3	1710
USA	North America	60.0	60.0	230	0 (Sink)	3	1710
ASIA	Asia	50.0	50.0	230	0 (Sink)	2	1410
EU	Europe	50.0	50.0	230	100 (Source)	2	1410