

TOSHIBA TOSVERT™ VF-AS1 Parameter List (V154)

E6581833

Panel operation frequency setting

Title	Function	Adjustment range	Default setting
<i>FL</i>	Operation frequency of operation panel	<i>LL</i> ~ <i>FH</i> Hz	0

Basic parameters

Title	Function	Adjustment range	Default setting
<i>RUH</i>	History function	-	-
<i>RU1</i>	Automatic acceleration/deceleration	0:Disabled 1:Automatic setting 2:Automatic setting (during acceleration only)	0
<i>RU2</i>	Automatic torque boost	0:Disabled 1:Automatic torque boost + auto-tuning 1 2:Sensorless vector control 1 + auto-tuning 1	0
<i>RU4</i>	Automatic function setting	0:Disabled 1:Frequency setting by means of voltage 2:Frequency setting by means of current 3:Voltage/current switching from external terminal 4:Frequency setting on operation panel and operation by means of terminals 5: Frequency setting and operation on operation panel	0
<i>CR0d</i>	Command mode selection	0:Terminal input enabled 1:Operation panel input enabled (including LED/LCD option input) 2:2-wire RS485 communication input 3:4-wireRS485 communication input 4:Communication option input	0
<i>FR0d</i>	Frequency setting mode selection 1	1:VIII (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:Operation panel input enabled (including LED/LCD option input) 5:2-wire RS485 communication input 6:4-wire RS485 communication input 7:Communication option input 8:Optional AI1 (differential current input) 9:Optional AI2 (voltage/current input) 10:UP/DOWN frequency 11:Optional RP pulse input 12:Optional high-speed pulse input 13:-(Unsupported option)	2
<i>PL</i>	V/f control mode selection	0:Constant torque characteristics 1:Voltage decrease curve 2:Automatic torque boost 3:Sensorless vector control 1 (speed) 4:Sensorless vector control 2 (speed/torque) 5:V/f 5-point setting 6:PM control 7:PG feedback control 8:PG feedback vector control	0
<i>ub</i>	Manual torque boost 1	0.0~30.0%	Depends on capacity
<i>UL</i>	Base frequency 1	25.0~500.0Hz	*2
<i>ULU</i>	Base frequency voltage 1	200V class:50~330V 400V class:50~660V	Depends on type
<i>FH</i>	Maximum frequency	30.0~500.0Hz	80.0
<i>UL</i>	Upper limit frequency	0.0~ <i>FH</i> Hz	*2
<i>LL</i>	Lower limit frequency	0.0~ <i>UL</i> Hz	0.0
<i>ACL</i>	Acceleration time 1	0.1~6000 sec.	Depends on capacity
<i>dEL</i>	Deceleration time 1	0.1~6000 sec.	Depends on capacity
<i>RU2</i>	RR/S4 input point 2 frequency	0.0~ <i>FH</i> Hz	*2
<i>RU1</i>	VIII input point 2 frequency	0.0~ <i>FH</i> Hz	*2
<i>sr1</i>	Preset speed operation frequency 1	<i>LL</i> ~ <i>UL</i> Hz	0.0
<i>sr2</i>	Preset speed operation frequency 2	<i>LL</i> ~ <i>UL</i> Hz	0.0
<i>sr3</i>	Preset speed operation frequency 3	<i>LL</i> ~ <i>UL</i> Hz	0.0
<i>sr4</i>	Preset speed operation frequency 4	<i>LL</i> ~ <i>UL</i> Hz	0.0
<i>sr5</i>	Preset speed operation frequency 5	<i>LL</i> ~ <i>UL</i> Hz	0.0
<i>sr6</i>	Preset speed operation frequency 6	<i>LL</i> ~ <i>UL</i> Hz	0.0

Title	Function	Adjustment range	Default setting																																		
<i>sr1</i>	Preset speed operation frequency 7	<i>LL</i> ~ <i>UL</i> Hz	0.0																																		
<i>Fr</i>	Forward run/reverse run selection (operation panel operation)	0:Forward run 1:Reverse run 2:Forward run (Forward/reverse switchable on operation panel) 3:Reverse run (Forward/reverse switchable on operation panel)	0																																		
<i>THR</i>	Motor electronic thermal protection level 1	10~100%	100																																		
<i>OLN</i>	Electronic thermal protection characteristic selection	<table border="1"> <thead> <tr> <th>Setting</th> <th>Motor type</th> <th>Overload protection</th> <th>OL stall</th> </tr> </thead> <tbody> <tr> <td>0</td> <td rowspan="3">Standard Motor</td> <td>(protect)</td> <td>x (not stall)</td> </tr> <tr> <td>1</td> <td>(protect)</td> <td>(stall)</td> </tr> <tr> <td>2</td> <td>x (not protect)</td> <td>x (not stall)</td> </tr> <tr> <td>3</td> <td rowspan="4">VF Motor</td> <td>x (not protect)</td> <td>(stall)</td> </tr> <tr> <td>4</td> <td>(protect)</td> <td>x (not stall)</td> </tr> <tr> <td>5</td> <td>(protect)</td> <td>(stall)</td> </tr> <tr> <td>6</td> <td>x (not protect)</td> <td>x (not stall)</td> </tr> <tr> <td>7</td> <td></td> <td>x (not protect)</td> <td>(stall)</td> </tr> </tbody> </table>	Setting	Motor type	Overload protection	OL stall	0	Standard Motor	(protect)	x (not stall)	1	(protect)	(stall)	2	x (not protect)	x (not stall)	3	VF Motor	x (not protect)	(stall)	4	(protect)	x (not stall)	5	(protect)	(stall)	6	x (not protect)	x (not stall)	7		x (not protect)	(stall)	0			
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<i>dSPU</i>	Current/voltage unit selection	0:%, 1:A (ampere)/V (volt)	0																																		
<i>FN5L</i>	FM terminal meter selection	0~76	0																																		
<i>FN</i>	FM terminal meter adjustment	-	-																																		
<i>AN5L</i>	AM terminal meter selection	0~76	2																																		
<i>AN</i>	AM terminal meter adjustment	-	-																																		
<i>CF</i>	PWM carrier frequency	1.0~16.0kHz (2.5~8.0kHz) *1	Depends on capacity																																		
<i>UUS</i>	Auto-restart control Selection	0:Disabled 1:At auto-restart after momentary stop 2:When turning ST on or off 3:1+2 4:At start-up	0																																		
<i>URL</i>	Regenerative power ride-through control	0:Disabled 1:Power ride-through 2:Deceleration stop during power failure 3:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal) 4:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal+power failure)	0																																		
<i>Pb</i>	Dynamic braking selection	<table border="1"> <thead> <tr> <th>Setting</th> <th>Braking function</th> <th>ST-off</th> <th>Overload detect</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Disabled</td> <td>-</td> <td>-</td> </tr> <tr> <td>1</td> <td rowspan="4">Enabled (It is effective in trip condition.)</td> <td>Enabled</td> <td>protect</td> </tr> <tr> <td>2</td> <td>Enabled</td> <td>not protect</td> </tr> <tr> <td>3</td> <td>Disabled</td> <td>protect</td> </tr> <tr> <td>4</td> <td>Disabled</td> <td>not protect</td> </tr> <tr> <td>5</td> <td rowspan="4">Enabled (It isn't effective in trip condition.)</td> <td>Enabled</td> <td>protect</td> </tr> <tr> <td>6</td> <td>Enabled</td> <td>not protect</td> </tr> <tr> <td>7</td> <td>Disabled</td> <td>protect</td> </tr> <tr> <td>8</td> <td>Disabled</td> <td>not protect</td> </tr> </tbody> </table>	Setting	Braking function	ST-off	Overload detect	0	Disabled	-	-	1	Enabled (It is effective in trip condition.)	Enabled	protect	2	Enabled	not protect	3	Disabled	protect	4	Disabled	not protect	5	Enabled (It isn't effective in trip condition.)	Enabled	protect	6	Enabled	not protect	7	Disabled	protect	8	Disabled	not protect	0
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<i>Pbr</i>	Dynamic braking resistance	0.5~1000Ω	Depends on capacity																																		
<i>PbLP</i>	Allowable continuous braking resistance	0.01~600.0kW	Depends on capacity																																		
<i>LYP</i>	Factory default setting	0: - 1:50 Hz default setting 2:60 Hz default setting 3:Factory default setting 4:Trip clear 5:Cumulative operation time cleared 6:Initialization of type information 7:Save user-defined parameters 8:Reset of user-defined parameters 9:Cumulative fan operation time record clear 10:Acceleration/deceleration time setting 0.01 sec.~600.0 sec. 11:Acceleration/deceleration time setting 0.1 sec.~6000sec.	0																																		
<i>PSEL</i>	Registered parameter display selection	0:Standard setting mode at time of activation of motor 1:Quick mode at time of activation of motor 2:Quick mode only	0																																		
<i>F1--</i> <i>F2--</i> <i>GrU</i>	Extended parameters	Set detailed parameters shown in the following pages	-																																		
<i>GrU</i>	Automatic edit function	-	-																																		

*1:For 200V-55/75kW/400V-90kW to 280kW models, the carrier frequency is between 2.5 and 8.0kHz inclusive.

*2:Inverter with a model number ending with -WN1, HN:60.0 -WP1:50.0

Extended parameters

- Frequency signal

Title	Function	Adjustment range	Default setting
F 100	Low-speed signal output frequency	0.0~UL Hz	0.0
F 101	Speed reach setting frequency	0.0~UL Hz	0.0
F 102	Speed reach detection band	0.0~UL Hz	2.5

- Input signal selection

Title	Function	Adjustment range	Default setting
F 105	Priority when forward/reverse run commands are entered simultaneously	0:Reverse run 1:Stop	1
F 106	Input terminal priority selection	0:Disabled 1:Enabled	0
F 107	Unsupported	0:- 1:- 2:- 3:- 4:- 5:- 6:- 7:- 8:-	0
F 108	Analog VI/VII voltage/current switching	0:Voltage input 1:Current input	0
F 109	Analog AI2 (optional circuit board) voltage/current switching	0:Voltage input 1:Current input	0

- Terminal function selection

Title	Function	Adjustment range	Default setting
F 110	Always ON function selection 1	0~155	*1
F 111	Input terminal function selection 1 (F)	0~155	2
F 112	Input terminal function selection 2 (R)	0~155	4
F 113	Input terminal function selection 3 (ST) *3	0~155	6
F 114	Input terminal function selection 4 (RES)	0~155	8
F 115	Input terminal function selection 5 (S1)	0~155	10
F 116	Input terminal function selection 6 (S2)	0~155	12
F 117	Input terminal function selection 7 (S3)	0~155	14
F 118	Input terminal function selection 8 (RR/S4)	0~155	16
F 119	Input terminal function selection 9 (L1)	0~155	0
F 120	Input terminal function selection 10 (L12)	0~155	0
F 121	Input terminal selection 11 (L13)	0~155	0
F 122	Input terminal selection 12 (L14)	0~155	0
F 123	Input terminal selection 13 (L15)	0~155	0
F 124	Input terminal selection 14 (L16)	0~155	0
F 125	Input terminal selection 15 (L17)	0~155	0
F 126	Input terminal selection 16 (L18)	0~155	0
F 127	Always ON function selection 2	0~155	0
F 128	Always ON function selection 3	0~155	0
F 130	Output terminal function selection 1 (OUT1)	0~255	4
F 131	Output terminal function selection 2 (OUT2)	0~255	6
F 132	Output terminal function selection 3 (FL)	0~255	10
F 133	Output terminal function selection 4 (OUT3)	0~255	254
F 134	Output terminal function selection 5 (OUT4)	0~255	254
F 135	Output terminal function selection 6 (R1)	0~255	254
F 136	Output terminal function selection 7 (OUT5)	0~255	254
F 137	Output terminal function selection 8 (OUT6)	0~255	254
F 138	Output terminal function selection 9 (R2)	0~255	254

Title	Function	Adjustment range	Default setting
F 140	Input terminal 1 response time selection (F)	2~200ms	8
F 141	Input terminal 2 response time selection (R)	2~200ms	8
F 142	Input terminal 2 response time selection (ST)	2~200ms	-
F 143	Input terminal 4 response time selection (RES)	2~200ms	8
F 144	Input terminal 5~12 response time selection	2~200ms	8
F 145	Input terminal 13~20 response time selection	5~200ms	8
F 154	Input terminal selection 17(B12)	0~155	0
F 155	Input terminal selection 18(B13)	0~155	0
F 156	Input terminal selection 19(B14)	0~155	0
F 157	Input terminal selection 20(B15)	0~155	0
F 158	Output terminal function selection 10 (R3)	0~255	254
F 159	Output terminal function selection 11 (R4)	0~255	254
F 170	Base frequency 2	25.0~500 Hz	*2
F 171	Base frequency voltage 2	50~330V/660V	Depends on type
F 172	Manual torque boost 2	0.0~30.0%	Depends on capacity
F 173	Thermal protection level 2	10~100%	100
F 174	Base frequency 3	25.0~500 Hz	*2
F 175	Base frequency voltage 3	50~330V/660V	Depends on type
F 176	Manual torque boost 3	0.0~30.0%	Depends on capacity
F 177	Thermal protection level 3	10~100%	100
F 178	Base frequency 4	25.0~500 Hz	*2
F 179	Base frequency voltage 4	50~330V/660V	Depends on type
F 180	Manual torque boost 4	0.0~30.0%	Depends on capacity
F 181	Thermal protection level 4	10~100%	100

*1:Inverter with a model number ending with -WN1, HN:0 -WP1:6
 *2:Inverter with a model number ending with -WN1, HN:60.0 -WP1:50.0
 *3:Inverter with a model number ending with -WN1, -WP1:no function

- V/f 5-point setting

Title	Function	Adjustment range	Default setting
F 190	V/f 5-point setting VF1 frequency	0.0~FH Hz	0.0
F 191	V/f 5-point setting VF1 voltage	0.0~100.0%	0.0
F 192	V/f 5-point setting VF2 frequency	0.0~FH Hz	0.0
F 193	V/f 5-point setting VF2 voltage	0.0~100.0%	0.0
F 194	V/f 5-point setting VF3 frequency	0.0~FH Hz	0.0
F 195	V/f 5-point setting VF3 voltage	0.0~100.0%	0.0
F 196	V/f 5-point setting VF4 frequency	0.0~FH Hz	0.0
F 197	V/f 5-point setting VF4 voltage	0.0~100.0%	0.0
F 198	V/f 5-point setting VF5 frequency	0.0~FH Hz	0.0
F 199	V/f 5-point setting VF5 voltage	0.0~100.0%	0.0

- Speed/torque reference gain/bias setup

Title	Function	Adjustment range	Default setting
F 200	Frequency priority selection	0:F 100 d/F 207 terminal switching (input terminal function selection 104, 105) 1:F 100 d/F 207 frequency switching (switching with F 208)	0
F 201	VI/II input point 1 setting	0~100%	0
F 202	VI/II input point 1 frequency	0.0~FH Hz	0.0
F 203	VI/II input point 2 setting	0~100%	100
F 205	VI/II input point 1 rate	0~250% (for torque control etc.)	0
F 206	VI/II input point 2 rate	0~250% (for torque control etc.)	100
F 207	Frequency setting mode selection 2	Same as F 100 d (1~13)	1

Title	Function	Adjustment range	Default setting
F208	Speed command priority switching frequency	0.1~FH Hz	0.1
F209	Analog input filter	0:No filter 1:Filter approx. 10ms 2:Filter approx. 15ms 3:Filter approx. 30ms 4:Filter approx. 60ms	0
F210	RR/S4 input point 1 setting	0~100%	0
F211	RR/S4 input point 1 frequency	0.0~FH Hz	0.0
F212	RR/S4 input point 2 setting	0~100%	100
F214	RR/S4 input point 1 rate	0~250% (for torque control etc.)	0
F215	RR/S4 input point 2 rate	0~250% (for torque control etc.)	100
F216	RX input point 1 setting	-100~100%	0
F217	RX input point 1 frequency	0.0~FH Hz	0.0
F218	RX input point 2 setting	-100~100%	100
F219	RX input point 2 frequency	0.0~FH Hz	*1
F220	RX input point 1 rate	-250~250%(for torque control etc.)	0
F221	RX input point 2 rate	-250~250%(for torque control etc.)	100
F222	AI1 input point 1 setting	-100~100%	0
F223	AI1 input point 1 frequency	0.0~FH Hz	0.0
F224	AI1 input point 2 setting	-100~100%	100
F225	AI1 input point 2 frequency	0.0~FH Hz	*1
F226	AI1 input point 1 rate	-250~250%(for torque control etc.)	0
F227	AI1 input point 2 rate	-250~250%(for torque control etc.)	100
F228	AI2 input point 1 setting	0~100%	0
F229	AI2 input point 1 frequency	0.0~FH Hz	0.0
F230	AI2 input point 2 setting	0~100%	100
F231	AI2 input point 2 frequency	0.0~FH Hz	*1
F234	RP/high speed pulse input point 1 setting	0~100%	0
F235	RP/high speed pulse input point 1 frequency	0.0~FH Hz	0.0
F236	RP/high speed pulse input point 2 setting	0~100%	100
F237	RP/high speed pulse input point 2 frequency	0.0~FH Hz	*1

*1:Inverter with a model number ending with -WN1, HN:60.0 -WVP1:50.0

- Operation frequency

Title	Function	Adjustment range	Default setting
F240	Starting frequency Setting	0.0~10.0Hz	0.1
F241	Operation start frequency	0.0~FH Hz	0.0
F242	Operation start frequency hysteresis	0.0~30.0Hz	0.0
F243	Stop frequency setting	0.0~30.0Hz	0.0
F244	Frequency command dead band	0.0~5.0Hz	0.0
F245	Start frequency / Stop frequency operation selection	0:standard 1:mode 1	0

- DC braking

Title	Function	Adjustment range	Default setting
F250	DC braking start frequency	0.0~120.0Hz	0.0
F251	DC braking current	0~100%	50
F252	DC braking time	0.0~20.0 sec.	1.0
F253	Forward/reverse DC braking priority control	0:Disabled, 1:Enabled	0
F254	Motor shaft fixing control	0:Disabled, 1:Enabled	0
F255	0Hz command output selection	0:Default (DC braking) 1:0Hz command	0
F256	Time limit for lower-limit frequency operation	0.0:Disabled 0.1~600.0 sec.	0.0

- Jogging operation

Title	Function	Adjustment range	Default setting
F260	Jog run frequency	F240~20.0Hz	5.0
F261	Jog run stop pattern	0:Deceleration stop 1:Coast stop 2:DC braking stop	0
F262	Operation panel jog run mode	0:Disabled 1:Operation panel jog run mode enabled	0
F264	Input from external contacts - UP response time	0.0~10.0 sec.	0.1
F265	Input from external contacts - UP frequency step	0.0~FH Hz	0.1
F266	Input from external contacts - DOWN response time	0.0~10.0 sec.	0.1
F267	Input from external contacts - DOWN frequency step	0.0~FH Hz	0.1

Title	Function	Adjustment range	Default setting
F268	Initial UP/DOWN frequency	LL~UL Hz	0.0
F269	Initial up/down frequency rewriting	0:Not changed 1:Setting of F268 changed when power is turned off	1

- Jump frequency

Title	Function	Adjustment range	Default setting
F270	Jump frequency 1	0.0~FH Hz	0.0
F271	Jumping width 1	0.0~30.0Hz	0.0
F272	Jump frequency 2	0.0~FH Hz	0.0
F273	Jumping width 2	0.0~30.0Hz	0.0
F274	Jump frequency 3	0.0~FH Hz	0.0
F275	Jumping width 3	0.0~30.0Hz	0.0

- Preset speed operation frequency (8~15)

Title	Function	Adjustment range	Default setting
F287	Preset speed operation frequency 8	LL~UL Hz	0.0
F288	Preset speed operation frequency 9	LL~UL Hz	0.0
F289	Preset speed operation frequency 10	LL~UL Hz	0.0
F290	Preset speed operation frequency 11	LL~UL Hz	0.0
F291	Preset speed operation frequency 12	LL~UL Hz	0.0
F292	Preset speed operation frequency 13	LL~UL Hz	0.0
F293	Preset speed operation frequency 14	LL~UL Hz	0.0
F294	Preset speed operation frequency15(Forced operation frequency)	LL~UL Hz	0.0

- Tripless intensification setup

Title	Function	Adjustment range	Default setting
F303	Retry selection	0:Deselect, 1 10 times	0
F305	Overvoltage limit Operation	0:Enabled 1:Disabled 2:Enabled (quick deceleration) 3:Enabled (dynamic quick deceleration)	2
F307	Base frequency voltage selection (correction of supply voltage)	0:Without voltage compensation (limitless output voltage) 1:With voltage compensation (limitless output voltage) 2:Without voltage compensation (limited output voltage) 3:With voltage compensation (limited output voltage)	0
F310	Non-stop control time /deceleration time during power failure	0.1~320.0 sec.	2.0
F311	Reverse-run prohibition selection	0:Permit all, 1:Prohibit reverse run 2:Prohibit forward run	0
F312	Random mode	0:Disabled, 1:Enabled	0
F313	Output voltage waveform selection *1	0:PWM carrier frequency control1 1:PWM carrier frequency control2	0
F316	Carrier frequency control mode selection	0:Not decrease carrier frequency automatically 1:Decrease carrier frequency automatically 2:Not decrease carrier frequency automatically, 400V class supported 3:Decrease carrier frequency automatically, 400V class supported 4:Not decrease carrier frequency automatically, with sinusoidal filter 5:Decrease carrier frequency automatically, with sinusoidal filter	Depends on capacity
F317	Synchronized deceleration time (time elapsed between start of deceleration to stop)	0.1~6000 sec.	2.0
F318	Synchronized acceleration time (time elapsed between start of acceleration to achievement of specified speed)	0.1~6000 sec.	2.0
F319	Regenerative over-excitation upper limit	100~160%	140

*1: F313 is available for VFAS1-2550P, VFAS1-4900PC and above.

- Drooping control

Title	Function	Adjustment range	Default setting
F320	Drooping gain	0.0~100.0% (Enabled if P ₁ =3, 4, 7 or 8)	0.0
F321	Speed at drooping gain 0%	0.0~320.0Hz (Enabled if P ₁ =3, 4, 7 or 8)	0.0
F322	Speed at drooping gain F320	0.0~320.0Hz (Enabled if P ₁ =3, 4, 7 or 8)	0.0
F323	Drooping insensitive torque	0~100% (Enabled if P ₁ =3, 4, 7 or 8)	10

- Functions for lift

Title	Function	Adjustment range	Default setting
F324	Drooping output filter	0.1~200.0 rad/s (Enabled if P ₁ =3, 4, 7 or 8)	100.0
F328	Light-load high-speed operation selection	0:Disabled 1:High-speed operation speed set automatically (Power running at F command: Increase) 2:High-speed operation speed set automatically (Power running at R command: Increase) 3:High-speed operation speed set with F330 (Power running at F command: Increase) 4:High-speed operation speed set with F330 (Power running at R command: Increase)	0
F329	Light-load high-speed Learning function	0:No learning 1:Forward run learning 2:Reverse run learning	0
F330	Automatic light-load high-speed operation frequency	30.0~UL Hz	*1
F331	Light-load high-speed operation switching lower limit frequency	5.0~UL Hz	40.0
F332	Light-load high-speed operation load waiting time	0.0~10.0 sec.	0.5
F333	Light-load high-speed operation load detection time	0.0~10.0 sec.	1.0
F334	Light-load high-speed operation heavy load detection time	0.0~10.0 sec.	0.5
F335	Switching load torque during power running	-250~250%	50
F336	Heavy-load torque during power running	-250~250%	100
F337	Heavy-load torque during constant power running	-250~250%	50
F338	Switching load torque during regenerative braking	-250~250%	50
F340	Creeping time1	0.00~2.50sec	0
F341	Braking mode selection	0:Disabled 1:Forward winding up 2:Reverse winding up, 3:Horizontal operation	0
F342	Load portion torque input selection	0:Disabled 1:V/I (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F343 enabled 5:2-wire RS485 communication input 6:4-wire RS485 communication input 7:Communications option input enabled 8:Optional AI1 (differential current input)	4
F343	Hoisting torque bias input (valid only when F342=4)	-250~250%	100
F344	Lowering torque bias multiplier	0~100%	100
F345	Brake release time	0.00~2.50 sec.	0.05
F346	Creeping frequency	F243~20.0 Hz	3.0
F347	Creeping time	0.00~2.50 sec.	0.10
F348	Braking time learning function	0:Disabled 1:Brake signal learning (0 after adjustment)	0
F349	Acceleration/deceleration suspend function	0:Disabled 1:Parameter setting 2:Terminal input	0
F350	Acceleration suspend frequency	0.0~FH Hz	0.0
F351	Acceleration suspend time	0.0~10.0 sec.	0.0
F352	Deceleration suspend frequency	0.0~FH Hz	0.0
F353	Deceleration suspend time	0.0~10.0 sec.	0.0

*1:Inverter with a model number ending with -WN1, HN:60.0 -WP1:50.0

- Commercial/inverter switching function

Title	Function	Adjustment range	Default setting
F354	Commercial power/inverter switching output selection	0:Disabled 1:Automatic switching in the event of a trip 2:Commercial power switching frequency setting 3:Commercial power switching frequency setting + automatic switching in the event of a trip	0
F355	Commercial power /inverter switching frequency	0~UL Hz	*1
F356	Inverter-side switching waiting time	0.10~10.00 sec.	Depends on capacity
F357	Commercial power-side switching waiting time	0.40~10.00 sec.	0.62
F358	Commercial power switching frequency holding time	0.10~10.00 sec.	2.00

*1:Inverter with a model number ending with -WN1, HN:60.0 -WP1:50.0

- PID control

Title	Function	Adjustment range	Default setting
F359	PID control switching	0:No PID control 1:Process type PID control (temp./pressure, etc.) operation 2:Speed type PID control (potentiometer, etc.) operation 3:Stop retaining P control 4:Dancer control	0
F360	PID control feedback control signal selection	0:Deviation input (no feedback input) 1:V/I (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:Optional AI1 (differential current input) 5:Optional AI2 (voltage/current input) 6: PG feedback option	0
F361	Delay filter	0.0~25.0	0.1
F362	Proportional (P) gain	0.01~100.0	0.10
F363	Integral (I) gain	0.01~100.0	0.10
F364	PID deviation upper limit	LL~UL Hz	*1
F365	PID deviation lower limit	LL~UL Hz	*1
F366	Differential (D) gain	0.00~2.55	0.00
F367	Process upper limit	LL~UL Hz	*1
F368	Process lower limit	LL~UL Hz	0.0
F369	PID control waiting time	0~2400 sec.	0
F370	PID output upper limit	LL~UL Hz	*1
F371	PID output lower limit	LL~UL Hz	0.0
F372	Process increasing rate (speed type PID control)	0.1~600.0	10.0
F373	Process decreasing rate (speed type PID control)	0.1~600.0	10.0

*1:Inverter with a model number ending with -WN1, HN:60.0 -WP1:50.0

- Speed feedback/positioning control

Title	Function	Adjustment range	Default setting
F375	Number of PG input pulses	1~9999	500
F376	Selection of number of PG input phases	1:Single-phase input 2:Two-phase input 3:Two-phase input (Inversion of polarity)	2
F377	PG disconnection detection	0:Disabled 1:Enabled (with filter) 2:Enabled (Detection of momentary power failure)	0
F378	Number of RP terminal input pulses	1~9999	500
F379	PID output dead band	0~100%	0
F381	Simple positioning completion range	1~4000	100

- Motor constant

Title	Function	Adjustment range	Default setting
F400	Auto-tuning 1	0:No auto-tuning 1:Initialize motor constant (0 after execution) 2:Continue operation continued after auto-tuning (0 after execution) 3:Auto-tuning by input terminal signal 4:Motor constant auto calculation (0 after execution)	0
F401	Slip frequency gain	0~150%	70
F402	Auto-tuning 2	0:Disabled 1:Self-cooled motor 2:Forced air-cooled motor	0

Title	Function	Adjustment range	Default setting
F405	Motor rated capacity (motor name plate)	0.10~500.0kW	Depends on capacity
F406	Motor rated current (motor name plate)	0.1~2000A	Depends on capacity
F407	Motor rated rotational speed (motor name plate)	100~60000min-1	Depends on capacity
F410	Motor constant 1 (torque boost)	0.0~30.0%	Depends on capacity
F411	Motor constant 2 (no load current)	10~90%	Depends on capacity
F412	Motor constant 3 (leak inductance)	0~250%(x0.1%)	Depends on capacity
F413	Motor constant 4 (rated slip)	0.1~25.0%	Depends on capacity
F415	Exciting strengthening coefficient	100~130%	100
F416	Stall prevention factor	10~250	100

- Torque control

Title	Function	Adjustment range	Default setting
F420	Torque command selection	1:V/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:Operation panel input enabled (including LED/LCD option input) 5:2-wire RS485 communication input 6:4-wire RS485 communication input 7:Communications option input enabled 8:Optional AI1 (differential current input)	3
F421	Torque reference filter	0~1000ms	0
F423	Tension torque bias input selection (torque control)	0:Disabled, 1~8 (same as F420)	0
F424	Load sharing gain input selection	0:Disabled, 1~8 (same as F420)	0
F425	Forward speed limit input selection	0:Disabled 1:V/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F425 enabled	0
F426	Forward speed limit input level	0.0~UL Hz	*1
F427	Reverse speed limit input selection	0:Disabled 1:V/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F427 enabled	0
F428	Reverse speed limit input level	0.0~UL Hz	*1
F430	Speed limit (torque = 0) center value reference selection	0:Disabled 1:V/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F431 enabled	0
F431	Speed limit (torque = 0) center value	0.0~FH Hz	0.0
F432	Speed limit (torque = 0) band	0.0~FH Hz	0.0
F435	Prohibition of rotation in any direction other than the specified one (F or R)	0:Disabled 1:Enabled	0

*1:Inverter with a model number ending with -WN1, HN:60.0 -WP1:50.0

- Torque limit

Title	Function	Adjustment range	Default setting
F440	Power running torque limit 1 selection	1:V/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F441	4
F441	Power running torque limit 1 level	0.0~249.9%, 250.0:Disabled	250.0
F442	Regenerative braking torque limit 1 selection	1:V/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F443	4
F443	Regenerative braking torque limit 1 level	0.0~249.9%, 250.0:Disabled	250.0
F444	Power running torque limit 2 level	0.0~249.9%, 250.0:Disabled	250.0
F445	Regenerative braking torque limit 2 level	0.0~249.9%, 250.0:Disabled	250.0
F446	Power running torque limit 3 level	0.0~249.9%, 250.0:Disabled	250.0
F447	Regenerative braking torque limit 3 level	0.0~249.9%, 250.0:Disabled	250.0

Title	Function	Adjustment range	Default setting
F448	Power running torque limit 4 level	0.0~249.9%, 250.0:Disabled	250.0
F449	Regenerative braking torque limit 4 level	0.0~249.9%, 250.0:Disabled	250.0
F451	Acceleration /deceleration operation after torque limit	0:In sync with acceleration/deceleration 1:In sync with min. time	0
F452	Power running stall continuous trip detection time	0.0~1.0 sec.	0.0
F453	Regenerative braking stall prevention mode selection	0:Stall during regenerative braking 1:Not stall during regenerative braking	0
F454	Constant output zone torque limit selection	0:Constant output limit 1:Constant torque limit	0
F455	Torque reference polarity selection	0:It is interchangeable so far. (When reversing, reverse the polarity.) 1:The polarity doesn't reverse when reversing.	0
F456	Factory specific coefficient 1	-	0

- Adjustment parameters

Title	Function	Adjustment range	Default setting
F458	Current control proportional gain	0.0~1000	0
F460	Speed loop proportional gain	1~9999	12
F461	Speed loop stabilization coefficient	1~9999	100
F462	Moment of inertia of load 1	0~100	35
F463	Second speed loop proportional gain	1~9999	12
F464	Second speed loop stabilization coefficient	1~9999	100
F465	Moment of inertia of load 2	0~100	35
F466	Speed PI switching frequency	0.0~FH Hz	0.0
F467	Motor oscillation control	0:Disabled 1:Enabled (Low gain) 2:Enabled (Middle gain) 3:Enabled (High gain)	0
F468	Stall prevention control switching	0:Stall prevention control 1 1:Stall prevention control 2	0
F469	Overvoltage limit constant	0:Automatic, 1~1000ms	0
F470	V/II input bias	0~255	Depends on each products
F471	V/II input gain	0~255	Depends on each products
F472	RR/S4 input bias	0~255	Depends on each products
F473	RR/S4 input gain	0~255	Depends on each products
F474	RX input bias	0~255	Depends on each products
F475	RX input gain	0~255	Depends on each products
F476	Optional AI1 input bias	0~255	Depends on each products
F477	Optional AI1 input gain	0~255	Depends on each products
F478	Optional AI2 input bias	0~255	Depends on each products
F479	Optional AI2 input gain	0~255	Depends on each products
F490	Factory specific coefficient 2	-	0
F491	Auto-restart method selection	0:Searching speed method 1 (factory setting) 1:Searching speed method 2	
F492	V/f modulation ratio (for switching)	0~100%	
F495	Max output voltage modulation rate	0:Standard 1:Straight 100% 2:102.5% 3:105%	0
F498	PM motor constant 1 (d axis inductance)	0~100%	10.0
F499	PM motor constant 2 (q axis inductance)	0~100%	10.0

- Acceleration/deceleration 2

Title	Function	Adjustment range	Default setting
F500	Acceleration time 2	0.1~6000 sec.	Depends on capacity
F501	Deceleration time 2	0.1~6000 sec.	Depends on capacity
F502	Acceleration/ deceleration 1 pattern	0: Straight, 1:S-pattern 1, 2:S-pattern 2	0
F503	Acceleration/ deceleration 2 pattern	0: Straight, 1:S-pattern 1, 2:S-pattern 2	0
F504	Panel acceleration/ deceleration selection	1: Acceleration/deceleration 1 2: Acceleration/deceleration 2 3: Acceleration/deceleration 3 4: Acceleration/deceleration 4	1
F505	Acceleration/ deceleration switching frequency 1	0.0~FH Hz	0.0
F506	Acceleration S-pattern lower limit adjustment	0~50%	10
F507	Acceleration S-pattern upper limit adjustment	0~50%	10
F508	Deceleration S-pattern lower limit adjustment	0~50%	10
F509	Deceleration S-pattern upper limit adjustment	0~50%	10
F510	Acceleration time 3	0.1~6000 sec.	Depends on capacity
F511	Deceleration time 3	0.1~6000 sec.	Depends on capacity
F512	Acceleration/ deceleration 3 pattern	0: Straight, 1:S-pattern 1, 2:S-pattern 2	0
F513	Acceleration/ deceleration switching frequency 2	0.0~FH Hz	0.0
F514	Acceleration time 4	0.1~6000 sec.	Depends on capacity
F515	Deceleration time 4	0.1~6000 sec.	Depends on capacity
F516	Acceleration/ deceleration 4 pattern	0: Straight, 1:S-pattern 1, 2:S-pattern 2	0
F517	Acceleration/ deceleration switching frequency 3	0.0~FH Hz	0.0

- Pattern operation

Title	Function	Adjustment range	Default setting
F520	Pattern operation selection	0: Disabled 1: Enabled (setting in units of seconds) 2: Enabled (setting in units of minutes)	0
F521	Pattern operation mode	0: Pattern operation reset when system stops operation 1: Pattern operation continued even after system stops operation	0
F522	Number of repetitions of pattern group 1	1~254, 255: Successive	1
F523	Pattern group 1 selection 1	0: Skip, 1~15	0
F524	Pattern group 1 selection 2	0: Skip, 1~15	0
F525	Pattern group 1 selection 3	0: Skip, 1~15	0
F526	Pattern group 1 selection 4	0: Skip, 1~15	0
F527	Pattern group 1 selection 5	0: Skip, 1~15	0
F528	Pattern group 1 selection 6	0: Skip, 1~15	0
F529	Pattern group 1 selection 7	0: Skip, 1~15	0
F530	Pattern group 1 selection 8	0: Skip, 1~15	0
F531	Number of repetitions of pattern group 2	1~254, 255: Successive	1
F532	Pattern group 2 selection 1	0: Skip, 1~15	0
F533	Pattern group 2 selection 2	0: Skip, 1~15	0
F534	Pattern group 2 selection 3	0: Skip, 1~15	0
F535	Pattern group 2 selection 4	0: Skip, 1~15	0
F536	Pattern group 2 selection 5	0: Skip, 1~15	0
F537	Pattern group 2 selection 6	0: Skip, 1~15	0
F538	Pattern group 2 selection 7	0: Skip, 1~15	0
F539	Pattern group 2 selection 8	0: Skip, 1~15	0
F540	Speed 1 operation time	0.1~6000 (The unit depends on the setting of F52B.) 6000: infinite (depends on the stop trigger entered)	5.0
F541	Speed 2 operation time	Ditto	5.0

Title	Function	Adjustment range	Default setting
F542	Speed 3 operation time	Ditto	5.0
F543	Speed 4 operation time	Ditto	5.0
F544	Speed 5 operation time	Ditto	5.0
F545	Speed 6 operation time	Ditto	5.0
F546	Speed 7 operation time	Ditto	5.0
F547	Speed 8 operation time	Ditto	5.0
F548	Speed 9 operation time	Ditto	5.0
F549	Speed 10 operation time	Ditto	5.0
F550	Speed 11 operation time	Ditto	5.0
F551	Speed 12 operation time	Ditto	5.0
F552	Speed 13 operation time	Ditto	5.0
F553	Speed 14 operation time	Ditto	5.0
F554	Speed 15 operation time	Ditto	5.0
F560	Preset speed operation mode selection	0: Preset speed operation with no mode 1: Preset speed operation with mode	0
F561	Preset speed operation frequency 1 operation mode	0: Forward run +1: Reverse run +2: Acceleration/deceleration switching signal 1 +4: Acceleration/deceleration switching signal 2 +8: V/f switching signal 1 +16: V/f switching signal 2 +32: Torque limit switching signal 1 +64: Torque limit switching signal 2	0
F562	Preset speed operation frequency 2 operation mode	Ditto	0
F563	Preset speed operation frequency 3 operation mode	Ditto	0
F564	Preset speed operation frequency 4 operation mode	Ditto	0
F565	Preset speed operation frequency 5 operation mode	Ditto	0
F566	Preset speed operation frequency 6 operation mode	Ditto	0
F567	Preset speed operation frequency 7 operation mode	Ditto	0
F568	Preset speed operation frequency 8 operation mode	Ditto	0
F569	Preset speed operation frequency 9 operation mode	Ditto	0
F570	Preset speed operation frequency 10 operation mode	Ditto	0
F571	Preset speed operation frequency 11 operation mode	Ditto	0
F572	Preset speed operation frequency 12 operation mode	Ditto	0
F573	Preset speed operation frequency 13 operation mode	Ditto	0
F574	Preset speed operation frequency 14 operation mode	Ditto	0
F575	Preset speed operation frequency 15 operation mode	Ditto	0

- Communication function

Title	Function	Adjustment range	Default setting
F576	IP address setting method	0: Manul setting (F577~F580 Enabled) 1: BOOTP 2: DHCP	0
F577	IP card	Data1	0~255
F578		Data2	0~255
F579		Data3	0~255
F580		Data4	0~255
F581	Subnet mask	Data1	0~255
F582		Data2	0~255
F583		Data3	0~255
F584		Data4	0~255
F585	IP gate1	Data1	0~255
F586		Data2	0~255
F587		Data3	0~255
F588		Data4	0~255
F589	IP master	Data1	0~255
F590		Data2	0~255
F591		Data3	0~255
F592		Data4	0~255
F593	IO scan permission	0: Prohibit 1: Permit	0
F594	Communication time-out (Modbus)	0.0~60.0 sec	0

- Protection functions

Title	Function	Adjustment range	Default setting
F601	Stall prevention level	0~164%, 165:Deactivated	150
F602	Inverter trip record retention selection	0:Clear when power is turned off 1:Retain even after power is turned off	0
F603	Emergency stop	0:Coast stop 1:Deceleration stop 2:Emergency DC braking 3:Deceleration stop (deceleration 4)	0
F604	Emergency DC braking control time	0.0~20.0 sec.	1.0
F605	Output phase failure detection mode selection	0:Deselect 1:At starting (only one time after power is turned on) 2:At starting (each time power is turned on) 3:During operation 4:At starting + during operation 5:Output cut-off detection enabled	0
F606	OL reduction starting frequency	0.0~60.0Hz	6.0
F607	Motor150%-overload time Limit	10~2400 sec.	300
F608	Input phase failure detection mode selection	0:Disabled 1:Enabled	1
F609	Low current detection hysteresis width	1~20%	10
F610	Low current trip selection	0:No trip 1:Trip	0
F611	Low current detection current	0~100%	0
F612	Low current detection time	0~255 sec.	0
F613	Selection of short circuit detection at starting	0:Each time (standard pulse) 1:Only one time after power is turned on 2:Each time (short pulse) 3:Only one time after power is turn on (short pulse) 4:Each time (Extremely shot-time pulse) 5:Only one time after power is turn on (Extremely shot-time pulse)	0
F615	Overtorque trip selection	0:No trip 1:Trip	0
F616	Overtorque detection level during power running	0~250%	150
F617	Overtorque detection level during regenerative braking	0~250%	150
F618	Overtorque detection time	0.00~10.00 sec.	0.50
F619	Overtorque detection hysteresis	0~100%	10
F620	Cooling fan control selection	0:Auto 1:Always ON	0
F621	Cumulative operation time alarm setting	0.1~999.9 (x100h)	610.0
F622	Abnormal speed detection time	0.01~100.0 sec.	0.01
F623	Overspeed detection frequency upper band	0.0:Disabled, 0.1~30.0Hz	0.0
F624	Overspeed detection frequency lower band	0.0:Disabled, 0.1~30.0Hz	0.0
F625	Undervoltage detection level	50~79%, 80: (auto mode)	80
F626	Undervoltage limit operation level	100~150%	134
F627	Undervoltage trip selection	0:Disabled 1:Enabled	0
F628	Undervoltage (trip alarm) detection time	0.01~10.00 sec.	0.03
F629	Regenerative power ride-through control level	55~100%	75
F630	Braking answer waiting time	0.0:Disabled, 0.1~10.0 sec.	0.0
F631	Temperature detection	0:Standard (150%-60 sec.) 1:Estimation of temperature	0
F632	V/f modulation ratio (for switching)	0.00 ~ 2.50 s	0.00
F633	V/II analog input wire breakage detection level	0:None 1~100%	0
F634	Annual average ambient Temperature (calculation for part replacement alarms)	1:-10~+10°C 2:+11~+20°C 3:+21~+30°C 4:+31~+40°C 5:+41~+50°C 6:+51~+60°C	3
F635	Rush current suppression relay activation time	0.0~2.5 sec.	0.0
F637	PTC1 thermal selection	0:Deselect 1:Select	0
F638	PTC2 thermal selection	0:Deselect 1:Select	0
F639	Braking resistance overload time (10 times of rated torque)	0.1~600.0 sec.	5.0

Title	Function	Adjustment range	Default setting
F639	Braking resistance overload time (10 times of rated torque)	0.1~600.0 sec.	5.0
F640	Step-out detection current level (for PM motors)	10~150	100
F641	Step-out detection time (for PM motors)	0.0:Not detect 0.1~25.0	0.0
F643	Brake-equipped motor restart condition selection	0:Default (no waiting time for frequencies of 10Hz and less) 1:Conditional (no waiting time for frequencies of 20Hz and less)	0
F647	Control power supply backup option failure monitoring	0:Control power supply not backed up 1:Control power supply backed up (alarm in the event of a failure) 2:Control power supply backed up (tripping in the event of a failure)	0

- Override

Title	Function	Adjustment range	Default setting
F660	Override addition input selection	0:Disabled 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:Operation panel input enabled (including LED/LCD option input) 5:2-wire RS485 input enabled 6:4-wire RS485 input enabled 7:Communications option input enabled 8:Optional AI1 (differential current input) 9:Optional AI2 (voltage/current input) 10:UP/DOWN frequency 11:Optional RP pulse input 12:Optional high-speed pulse input 13:-	0
F661	Override multiplication input selection	0:Disabled, 1:VI/II, 2:RR/S4, 3:RX, 4:F 729, 5:Optional AI1	0
F665	Earth detection selection	0:detection (except in stop) 1:no detection	0
F669	Logic output/pulse output selection (OUT1)	0:Logic output 1:Pulse output	0

- Meter output

Title	Function	Adjustment range	Default setting
F672	MON1 terminal meter selection	0~76	4
F673	MON1 terminal meter adjustment	-	-
F674	MON2 terminal meter selection	0~76	5
F675	MON2 terminal meter adjustment	-	-
F676	Pulse output function selection	0~49	0
F677	Selection of number of pulses	1.00~43.20kHz	3.84
F678	Constant at the time of filtering	4msec, 8msec~100msec	64
F681	FM voltage/current output switching	0:Voltage 0~10V output 1:Current 0~20mA output	0
F682	FM output gradient characteristic	0:Negative gradient (descending) 1:Positive gradient (ascending)	1
F683	FM bias adjustment	-10.0~100.0%	0.0
F684	FM output filter	0:No filter 1:Filter approx. 10ms 2:Filter approx. 15ms 3:Filter approx. 30ms 4:Filter approx. 60ms 5:Filter approx. 120ms 6:Filter approx. 250ms 7:Filter approx. 500ms 8:Filter approx. 1s	0
F685	AM output gradient characteristic	0:Negative inclination (downward slope) 1:Positive inclination (upward slope)	1
F686	AM bias adjustment	-10.0~100.0%	0.0
F688	MON1 voltage/current output switching	0:Voltage ~10~10V output 1:Voltage 0~10V output 2:Current 0~20mA output	1
F689	MON1 output gradient characteristic	0:Negative inclination (downward slope) 1:Positive inclination (upward slope)	1
F690	MON1 bias adjustment	-10.0~100.0%	0.0
F691	MON2 voltage/current output switching	0:Voltage ~10~10V output 1:Voltage 0~10V output 2:Current 0~20mA output	1

Title	Function	Adjustment range	Default setting
F 692	MON2 output gradient characteristic	0:Negative inclination (downward slope) 1:Positive inclination (upward slope)	1
F 693	MON2 bias adjustment	-10.0~100.0%	0.0

- Operation panel parameters

Title	Function	Adjustment range	Default setting
F 700	Parameter write protect selection	0:Permit 1:Prohibit	0
F 702	Frequency free unit display magnification	0.00:OFF, 0.01~200.0	0.00
F 703	Frequency free unit conversion selection	0:All frequencies display free unit conversion 1:PID frequencies free unit conversion	0
F 705	Free unit display gradient characteristic	0:Negative inclination (downward slope) 1:Positive inclination (upward slope)	1
F 706	Free unit display bias	0.00~FH Hz	0.00
F 707	Changing step selection 1	0.00:Disabled, 0.01~FH Hz	0.00
F 708	Changing step selection 2	0:Disabled, 1~255	0
F 709	Standard monitor hold function	0:Real time, 1:Peak hold, 2:Minimum hold	0
F 710	Standard monitor display selection	0~80	0
F 711	Status monitor 1 display selection	Ditto	1
F 712	Status monitor 2 display selection	Ditto	2
F 713	Status monitor 3 display selection	Ditto	3
F 714	Status monitor 4 display selection	Ditto	4
F 715	Status monitor 5 display selection	Ditto	8
F 716	Status monitor 6 display selection	Ditto	16
F 717	Status monitor 7 display selection	Ditto	15
F 718	Status monitor 8 display selection	Ditto	14
F 719	Operation command clear selection	0:When standby terminal (ST) is OFF, clear panel operation command 1:When standby terminal (ST) is OFF, remain operation command 2:When standby terminal (ST) is OFF or under voltage alarm occurs, clear operation command	1
F 721	Operation panel stop pattern selection	0:Deceleration stop 1:Coast stop	0
F 725	Operation panel torque command	-250~250%	0
F 727	Operation panel Tension torque bias	-250~250%	0
F 728	Operation panel load sharing gain	0~250%	100
F 729	Operation panel override multiplication gain	-100~100%	0
F 730	Operation panel frequency setting prohibition selection	0:Permit 1:Prohibit	0
F 731	LED/LCD panel cable breakage detection selection	0:Disconnection detection (Err 9 trip) 1:No disconnection detection (retain operation command)	1
F 734	Operation panel emergency stop operation prohibition selection	0:Permit 1:Prohibit	0
F 735	Operation panel reset operation prohibition selection	0:Permit 1:Prohibit	0
F 736	Prohibition of change of $CNOdIFNOd$ during operation	0:Permit 1:Prohibit	1
F 737	All key operation prohibition	0:Permit 1:Prohibit	0
F 740	Trace selection	0:Deselect, 1:At tripping 2:At triggering	1
F 741	Trace cycle	0:4ms, 1:20ms, 2:100ms, 3:1s, 4:10s	2
F 742	Trace data 1	0~49	0
F 743	Trace data 2	0~49	1
F 744	Trace data 3	0~49	2
F 745	Trace data 4	0~49	3
F 748	Integral output power retention selection	0:Disabled 1:Enabled	0
F 749	Integral output power display unit selection	0:1~1kWh 1:1~10kWh 2:1~100kWh 3:1~1000kWh 4:1~10000kWh	Depends on capacity

Title	Function	Adjustment range	Default setting
F 750	EASY key function selection shortcut key	0:Quick mode/standard setting mode switching function 1:Shortcut key: Pressing for 2 sec to record the parameter, pressing normally to jump to recorded parameter (first jump to the 1st history) 2:Operation panel/remote key 3:Operation panel by ON 3:onitor peak minimum hold Trigger	0
F 751	Quick registration parameter 1	0~999	40 (AU4)
F 752	Quick registration parameter 2	0~999	15 (pt)
F 753	Quick registration parameter 3	0~999	11 (FH)
F 754	Quick registration parameter 4	0~999	9 (ACC)
F 755	Quick registration parameter 5	0~999	10 (dEC)
F 756	Quick registration parameter 6	0~999	600 (tHR)
F 757	Quick registration parameter 7	0~999	6 (FM)
F 758	Quick registration parameter 8	0~999	999
F 759	Quick registration parameter 9	0~999	999
F 760	Quick registration parameter 10	0~999	999
F 761	Quick registration parameter 11	0~999	999
F 762	Quick registration parameter 12	0~999	999
F 763	Quick registration parameter 13	0~999	999
F 764	Quick registration parameter 14	0~999	999
F 765	Quick registration parameter 15	0~999	999
F 766	Quick registration parameter 16	0~999	999
F 767	Quick registration parameter 17	0~999	999
F 768	Quick registration parameter 18	0~999	999
F 769	Quick registration parameter 19	0~999	999
F 770	Quick registration parameter 20	0~999	999
F 771	Quick registration parameter 21	0~999	999
F 772	Quick registration parameter 22	0~999	999
F 773	Quick registration parameter 23	0~999	999
F 774	Quick registration parameter 24	0~999	999
F 775	Quick registration parameter 25	0~999	999
F 776	Quick registration parameter 26	0~999	999
F 777	Quick registration parameter 27	0~999	999
F 778	Quick registration parameter 28	0~999	999
F 779	Quick registration parameter 29	0~999	999
F 780	Quick registration parameter 30	0~999	999
F 781	Quick registration parameter 31	0~999	999
F 782	Quick registration parameter 32	0~999	50 (PSEL)

- Communication function

Title	Function	Adjustment range	Default setting
F 784	MAC address	Date1	0~255
F 785		Date2	0~255
F 786		Date3	0~255
F 787		Date4	0~255
F 788		Date5	0~255
F 789		Date6	0~255
F 792	Device name	Date1	0000~FFFF
F 793		Date2	0000~FFFF
F 794		Date3	0000~FFFF
F 795		Date4	0000~FFFF
F 796		Date5	0000~FFFF
F 797		Date6	0000~FFFF
F 798		Date7	0000~FFFF
F 799		Date8	0000~FFFF
F 800	Communication speed (2-wireRS485)	0:9600 bps 1:19200 bps 2:38400 bps	1
F 801	Parity (2-wireRS485)	0:Non parity 1:Even parity, 2:Odd parity	1
F 802	Inverter number (common)	0~247	0

Title	Function	Adjustment range	Default setting
F803	Communications time-out time (common to 2-wire RS485 and 4-wire RS485)	0:OFF, 1~100 sec.	0
F804	Communication time-out action (common to 2-wire RS485 and 4-wire RS485)	0~8	8
F805	Send waiting time (2-wire RS485)	0.00:Default, 0.01~2.00 sec.	0.00
F806	Master/slave setting for inverter-to-inverter communications (2-wire RS485)	0:Slave (issues a 0Hz command if something goes wrong with the master) 1:Slave (continues operation if something goes wrong with the master) 2:Slave (trips for emergency stop if something goes wrong with the master) 3:Master (sends a frequency command) 4:Master (sends an output frequency) 5:Master (sends a torque command) 6:Master (sends an output torque command)	0
F807	Protocol selection (2-wire RS485)	0:TOSHIBA 1:MODBUS	0
F808	Communication 1 time-out condition selection	0:Disconnection detection 1:When communication mode Enable 2:1+Driving operation	0
F810	Frequency point selection	0:Disabled 1:2-wire RS485 2:4-wire RS485 3:Communication add option	0
F811	Point 1 setting	0~100%	0
F812	Point 1 frequency	0.0~FH Hz	0.0
F813	Point 2 setting	0~100%	100
F814	Point 2 frequency	0.0~FH Hz	*1
F815	Address monitor (Modbus puls)	1~64	1
F816	Command selection (Modbus puls)	0:Prohibit 1:Permit	0
F817	Number of command (Modbus puls)	0~8	0
F818	Number of Monitor (Modbus puls)	0~8	0
F819	Command station (Modbus puls)	0~64	0
F820	Communication Speed (4-wire RS485)	0:9600 bps 1:19200 bps 2:38400 bps	1
F821	Baud rate (Ethernet)	0:Automatic detection 1:10Mbps Full 2:10Mbps Half 3:100Mbps Full 4:100Mbps Half	0
F822	Baud rate monitor right port (Ethernet)	0:Automatic detection 1:10Mbps Full 2:10Mbps Half 3:100Mbps Full 4:100Mbps Half	-
F823	Baud rate monitor right port (Ethernet)	0:Automatic detection 1:10Mbps Full 2:10Mbps Half 3:100Mbps Full 4:100Mbps Half	-
F824	(Reservation)	0:- 1:- 2:- 3:-	0
F825	Send waiting time (4-wire RS485)	0.00:Default, 0.01~2.00 sec.	0.00
F826	Inverter-to-inverter communication setting (4-wire RS485)	0:Slave (issues a 0Hz command if something goes wrong with the master) 1:Slave (continues operation if something goes wrong with the master) 2:Slave (trips for emergency stop if something goes wrong with the master) 3:Master (sends a frequency command) 4:Master (sends an output frequency) 5:Master (sends a torque command) 6:Master (sends an output torque command)	0
F827	Parity (4-wire RS485)	0 : No parity 1 : Even parity 2 : Odd parity	1
F829	Protocol selection (4-wire RS485)	0:TOSHIBA 1:MODBUS	0
F830	Communication option setting 1	0~7	0
F831	Communication option setting 2	0000~FFFF	0000
F832	Communication option setting 3	0000~FFFF	0000
F833	Communication option setting 4	0000~FFFF	0000

*1: Inverter with a model number ending with -WN1, HN:60.0 -WP1:50.0

Title	Function	Adjustment range	Default setting
F834	Communication option setting 5	0000~FFFF	0000
F835	Communication option setting 6	0000~FFFF	0000
F836	Communication option setting 7	0000~FFFF	0000
F837	Communication option setting 8	0000~FFFF	0
F838	Communication option setting 9	0000~FFFF	0
F841	Communication option setting 10	0000~FFFF	0000
F842	Communication option setting 11	0000~FFFF	0000
F843	Communication option setting 12	0000~FFFF	0000
F844	Communication option setting 13	0000~FFFF	0000
F845	Communication option setting 14	0000~FFFF	0000
F846	Communication option setting 15	0000~FFFF	0000
F847	Communication option setting 16	0000~FFFF	0
F848	Communication option setting 17	0000~FFFF	0
F849	Communication 2 time-out condition selection	0:Disconnection detection 1:When communication mode enable 2:1+Driving operation	0
F850	Disconnection detection extended time	0.0~100.0 sec.	0.0
F851	Inverter operation at disconnection	0:Inverter stop, communication command, frequency mode open (by <i>Err d</i> , <i>Frd</i>) 1:None (continued operation) 2:Deceleration stop 3:Coast stop 4:Network error (<i>Err B</i> trip) 5:Preset speed operation (by <i>F52</i> setting)	0
F852	Preset speed operation selection	0:None 1~15:Preset speed operation (by parameter setting)	0
F853	Communication option station address monitor	0~255	0
F854	Communication option speed switch monitor Device Net/CC-Link	0~255	0
F856	Motor pairs of poles for communication	1:2Poles, 2:4Poles 3:6Poles, 4:8Poles 5:10Poles, 6:12Poles 7:14Poles, 8:16Poles	2
F870	Block write data 1	0:Disabled 1:Command information 1 2:Command information 2 3:Frequency command 4:Terminal board output data 5:Communication analog data 6:Rotational speed instruction	0
F871	Block write data 2	Ditto	0
F875	Block read data 1	0:Deselect 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/II terminal board monitor 10:RR/S4 terminal board monitor 11:RX terminal board monitor 12:Input voltage (DC detection) 13:Speed feedback frequency 14:Torque 15:MY monitor 1 16:MY monitor 2 17:MY monitor 3 18:MY monitor 4 19:Free notes 20:rotational speed	0
F876	Block read data 2	Ditto	0
F877	Block read data 3	Ditto	0
F878	Block read data 4	Ditto	0
F879	Block read data 5	Ditto	0
F880	Free notes	0~FFFF	0
F898	Error reset mode selection (for communication option)	0:Only reset trip if the requirement is from communication option, but reset all if the requirement is from the others. 1:Reset all 2:Only reset trip	1
F899	Network option reset Setting	0:None 1:Reset option circuit board and inverter	0

- My function

Title	Function	Adjustment range	Default setting
F900	Input function target 11	Input terminal function number 0:Deselect 1:F terminal 2:R terminal 3:- 4:RES terminal 5:S1 terminal 6:S2 terminal 7:S3 terminal 8:RR/S4 terminal 9:L11 terminal 10:L12 terminal 11:L13 terminal 12:L14 terminal 13:L15 terminal 14:L16 terminal 15:L17 terminal 16:L18 terminal 17:B12 terminal 18:B13 terminal 19:B14 terminal 20:B15 terminal 21:Virtual input terminal 1 22:Virtual input terminal 2 23:Virtual input terminal 3 24:Virtual input terminal 4 25~32:Internal terminal 1~8 918~934:MY function number 1000~1255:Output selection number 2000~2099:FD00~FD99 3000~3099:FE00~FE99	0
F901	Input function command 12	0:NOP (not operation) 1:ST (move) 2:STN 3:AND (logical product) 4:ANDN 5:OR (logical sum) 6:ORN 7:EQ (equal) 8:NE (not equal) 9:GT (greater than) 10:GE (greater or equal) 11:LT (less than) 12:LE (less or equal) 13:ASUB (absolute) 14:ON (on delay timer) 15:OFF (off delay timer) 16:COUNTR 1 (counter 1) 17:COUNTR 2 (counter 2) 18:HOLD (hold) 19:SET (set) 20:RESET (reset) 21:CLR 22:CLRn	0
F902	Input function target 12	Same as F900	0
F903	Input function command 13	Same as F901	0
F904	Input function target 13	Same as F900	0
F905	Output function assigned object 1	Same as F900	0
F906	Input function target 21	Same as F900	0
F907	Input function command 22	Same as F901	0
F908	Input function target 22	Same as F900	0
F909	Input function command 23	Same as F901	0
F910	Input function target 23	Same as F900	0
F911	Output function assigned object 2	Same as F900	0
F912	Input function target 31	Same as F900	0
F913	Input function command 32	Same as F901	0
F914	Input function target 32	Same as F900	0
F915	Input function command 33	Same as F901	0
F916	Input function target 33	Same as F900	0
F917	Output function assigned object 3	Same as F900	0
F918	My output percent data 1	0.00~200.0%	0.00
F919	My output percent data 2	0.00~200.0%	0.00
F920	My output percent data 3	0.00~200.0%	0.00
F921	My output percent data 4	0.00~200.0%	0.00
F922	My output percent data 5	0.00~200.0%	0.00
F923	My output frequency data 1	0.0~500.0Hz	0.0
F924	My output frequency data 2	0.0~500.0Hz	0.0
F925	My output frequency data 3	0.0~500.0Hz	0.0
F926	My output frequency data 4	0.0~500.0Hz	0.0
F927	My output frequency data 5	0.0~500.0Hz	0.0
F928	My output time data 1	0.01~600.0sec	0.01
F929	My output time data 2	0.01~600.0sec	0.01
F930	My output time data 3	0.01~600.0sec	0.01
F931	My output time data 4	0.01~600.0sec	0.01
F932	My output time data 5	0.01~600.0sec	0.01
F933	No. of times of My output data 1	0~9999 times	0
F934	No. of times of My output data 2	0~9999 times	0
F935	Input function target 41	Same as F900	0

Title	Function	Adjustment range	Default setting
F936	Input function command 42	Same as F901	0
F937	Input function target 42	Same as F900	0
F938	Input function command 43	Same as F901	0
F939	Input function target 43	Same as F900	0
F940	Output function assigned object 4	Same as F900	0
F941	Input function target 51	Same as F900	0
F942	Input function command 52	Same as F901	0
F943	Input function target 52	Same as F900	0
F944	Input function command 53	Same as F901	0
F945	Input function target 53	Same as F900	0
F946	Output function assigned object 5	Same as F900	0
F947	Output function target 61	Same as F900	0
F948	Input function command 62	Same as F901	0
F949	Input function target 62	Same as F900	0
F950	Input function command 63	Same as F901	0
F951	Input function target 63	Same as F900	0
F952	Output function assigned object 6	Same as F900	0
F953	Input function target 71	Same as F900	0
F954	Input function command 72	Same as F901	0
F955	Input function target 72	Same as F900	0
F956	Input function command 73	Same as F901	0
F957	Input function target 73	Same as F900	0
F958	Output function assigned object 7	Same as F900	0
F959	Analog input function target 11	0:Disabled 1:V/II 2:RR/S4 3:RX 4:Optional AI1+, Optional AI- 5:Optional AI2 6:Internal memory1	0
F961	Analog function assigned object 11	0:Disabled 1:Acceleration 2:Upper limit frequency (UL) 3:Acceleration multiplication factor 4:Deceleration multiplication factor 5:Manual torque boost (αb) 6:OC stall (F50i) 7:Thermal protection (THC) 8:Speed loop P gain (F460) 9:Drooping gain (F320) 10:PID P gain (F362)	0
F962	Analog input function target 21	0:Disabled 1:V/II 2:RR/S4 3:RX 4:Optional AI1+, Optional AI- 5:Optional AI2 6:Internal memory2	0
F964	Analog function assigned object 21	0~10	0
F965	Monitor output function target 11	2000~2099:FD00~FD99 3000~3099:FE00~FE99	2000
F966	Monitor output function command 11	0:Normal monitor, 1:Max. value, 2:Min. value	0
F967	Monitor output function target 21	2000~2099:FD00~FD99 3000~3099:FE00~FE99	2000
F968	Monitor output function command 21	0:Normal monitor, 1:Max. value, 2:Min. value	0
F969	Monitor output function target 31	2000~2099:FD00~FD99 3000~3099:FE00~FE99	2000
F970	Monitor output function command 31	0:Normal monitor, 1:Max. value, 2:Min. value	0
F971	Monitor output function target 41	2000~2099:FD00~FD99 3000~3099:FE00~FE99	2000
F972	Monitor output function command 41	0:Normal monitor, 1:Max. value, 2:Min. value	0
F973	Virtual input terminal selection 1	0~155	0
F974	Virtual input terminal selection 2	0~155	0
F975	Virtual input terminal selection 3	0~155	0
F976	Virtual input terminal selection 4	0~155	0
F977	My function selection	0:Disabled 1:My function + permission signal 2:My function always ON	0

- Traveririse function

Title	Function	Adjustment range	Default setting
F980	Traverse selection	0:Disabled 1:Enabled	0
F981	Traverse acceleration Time	0.1~120.0 sec.	25.0
F982	Traverse deceleration Time	0.1~120.0 sec.	25.0
F983	Traverse step	0.0~25.0%	10.0
F984	Traverse jump step	0.0~50.0%	10.0

-Monitor FM/AM/pulse output function selection

FM/AM/pulse output	Monitor output	Function
Option No	Option No	
0	0	Output frequency
1	1	Frequency command value
2	2	Output current
3	3	Input voltage (DC detection)
4	4	Output voltage
5	5	Compensated frequency
6	6	Speed feedback (real-time value) *1
7	7	Speed feedback (1-second filter) *1
8	8	Torque
9	9	Torque command
11	11	Torque current
12	12	Exciting current
13	13	PID feedback value
14	14	Motor overload factor (OL2 data)
15	15	Inverter overload factor (OL1 data)
16	16	Regenerative braking resistance overload factor (OLr data)
17	17	Regenerative braking resistor load factor (% ED)
18	18	Input power
19	19	Output power
23	23	Optional AI2 input
24	24	RR/S4 input
25	25	VI/II input
26	26	RX input
27	27	Optional AI1 input
28	28	FM output
29	29	AM output
30	-	Fixed output 1
31	-	Communication data output
32	-	Fixed output 2
33	-	Fixed output 3
-	32	Attached to expansion I/O card 1 CPU version
-	33	Attached to expansion I/O card 2 CPU version
34	34	Integral input power
35	35	Integral output power
45	-	Gain display
46	-	My function monitor 1 (Output of unsigned value)
47	-	My function monitor 2 (Output of unsigned value)
48	-	My function monitor 3 (Output of signed value)
49	-	My function monitor 4 (Output of signed value)
50	50	Signed output frequency
51	51	Signed frequency command value
52	52	Signed compensated frequency
53	53	Signed speed feedback (real-time value)
54	54	Signed speed feedback (1-second filter)
55	55	Signed torque
56	56	Signed torque command
58	58	Signed torque current
59	59	Signed PID feedback value
60	60	Signed RX input
61	61	Signed optional AI1 input
62	-	Signed fixed output 1
63	-	Signed fixed output 2
64	-	Signed fixed output 3
-	64	Light-load high-speed load torque monitor 1
-	65	Light-load high-speed load torque monitor 2
-	66	Pattern operation group number
-	67	Remaining no. of cycles for which pattern operation is continued
-	68	Pattern operation preset speed numbers
-	69	Remaining time for which pattern operation is continued
-	70	Rated voltage
-	71	Rotational speed
-	72	Communication option Abnormal counter
-	73	Communication option Abnormal counter
74	74	MON1
75	75	MON2
76	76	RP
-	77	COUNT1
-	78	COUNT2
-	79	PID result frequency
-	80	Synchronous speed Frequency command

*1: Estimated speed is output if there is no PG feedback. If used as pulse input command with PG feedback option, frequency is displayed as in the PG feedback.

- Input terminal function setting

Positive logic	Negative logic	Function
0	1	No function is assigned
2	3	F: Forward run command
4	5	R: Reverse run command
6	7	ST: Standby
8	9	RES: Reset
10	11	S1: Preset speed 1
12	13	S2: Preset speed 2
14	15	S3: Preset speed 3
16	17	S4: Preset speed 4
18	19	Jog run
20	21	Emergency stop
22	23	DC braking
24	25	Acceleration/deceleration switching 1
26	27	Acceleration/deceleration switching 2
28	29	V/f switching signal 1
30	31	V/f switching signal 2
32	33	Torque limit switching signal 1
34	35	Torque limit switching signal 2
36	37	PID control OFF selection
38	39	Pattern operation selection 1
40	41	Pattern operation selection 2
42	43	Pattern operation continuation signal
44	45	Pattern operation trigger signal
46	47	External thermal error
48	49	Communication priority cancel
50	51	Holding of HD operation (stop of three-wire operation)
52	53	PID differentiation/integration reset
54	55	PID forward/reverse switching
56	57	Forced continuous operation
58	59	Specified speed operation
60	61	Acceleration/deceleration suspend signal
62	63	Power failure synchronized signal
64	65	My function RUN signal
66	67	Auto-tuning signal
68	69	Speed gain switching
70	71	Servo lock signal
72	73	Simple positioning (positioning loop)
74	75	Integrating wattmeter display clear
76	77	Trace back trigger signal
78	79	Light-load high-speed operation prohibitive signal
86	87	Binary data write
88	89	Up/Down frequency (up)
90	91	Up/Down frequency (down)
92	93	Up/Down frequency (clear)
94	95	Dancer correction OFF
98	99	Forward/Reverse selection
100	101	Run/Stop command
102	103	Commercial power/INV switching
104	105	Frequency reference priority switching
106	107	VI/II terminal priority
108	109	Command terminal board priority
110	111	Parameter editing enabling
112	113	Speed/Torque switching
122	123	Rapidest deceleration command
124	125	Preliminary excitation
126	127	Braking request
130	131	Brake answer back input
134	135	Traverse permission signal
136	151	(reservation)
152	153	V/f ratio switching
154	155	Manual torque boost switching signal

- Output terminal function setting

Positive logic	Negative logic	Function
0	1	LL
2	3	UL
4	5	LOW
6	7	Acceleration/deceleration completion
8	9	Specified speed arrival
10	11	Failure FL (all trip)
12	13	Failure FL (except for EF, OCL, EPHO and OL2)
14	15	Overcurrent pre-alarm
16	17	Inverter overload pre-alarm
18	19	Motor overload pre-alarm
20	21	Overheat pre-alarm
22	23	Overvoltage pre-alarm
24	25	Main circuit under voltage alarm
26	27	Low current alarm
28	29	Overtorque alarm
30	31	Braking resistor overload pre-alarm
32	33	In emergency stop
34	35	In course of retry
36	37	Pattern operation switching output
38	39	PID deviation limit
40	41	Run/Stop
42	43	Serious failure (OCA, OCL, EF, phase failure, etc.)
44	45	Light failure (OL, OC1, 2, 3, OP)
46	47	Commercial/INV switching output 1 (for inverter operation output)
48	49	Commercial/INV switching output 2 (for commercial operation output)
50	51	Cooling fan ON/OFF
52	53	In Jog run
54	55	Panel operation/terminal board operation switching
56	57	Cumulative operation time alarm
58	59	PROFIBUS/DeviceNet/CC-Link communication error
60	61	Forward/reverse run
62	63	Ready for operation 1
64	65	Ready for operation 2
68	69	Braking release signal
70	71	In (pre-)alarm status
72	73	Forward speed limit (torque control)
74	75	Reverse speed limit (torque control)
76	77	Inverter healthy output
78	79	RS485 communication error
80	81	Error code output 1 (6-bit output)
82	83	Error code output 2 (6-bit output)
84	85	Error code output 3 (6-bit output)
86	87	Error code output 4 (6-bit output)
88	89	Error code output 5 (6-bit output)
90	91	Error code output 6 (6-bit output)
92	93	Designated data output 1 (7-bit output)
94	95	Designated data output 2 (7-bit output)
96	97	Designated data output 3 (7-bit output)
98	99	Designated data output 4 (7-bit output)
100	101	Designated data output 5 (7-bit output)
102	103	Designated data output 6 (7-bit output)
104	105	Designated data output 7 (7-bit output)
106	107	Light load signal
108	109	Heavy load signal
110	111	Positive torque limit
112	113	Negative torque limit
114	115	Output for external rush suppression relay
118	119	Completion of stop positioning (for simple positioning)
120	121	L-STOP
122	123	Power failure synchronized operation
124	125	Traverse motion
126	127	Traverse deceleration in progress
128	129	Part replacement alarm
130	131	Overtorque pre-alarm
132	133	Operation frequency command 1/2 selection
134	135	Failure FL (except emergency stop)
164	165	Motor oscillation control1(VFA7 Compatibility)
222	223	My function output 1
224	225	My function output 2
226	227	My function output 3
228	229	My function output 4
230	231	My function output 5
232	233	My function output 6
234	235	My function output 7
236	237	My function output 8
238	239	My function output 9
240	241	My function output 10
242	243	My function output 11
244	245	My function output 12
246	247	My function output 13
248	249	My function output 14
250	251	My function output 15
252	253	My function output 16
254	255	Always OFF (for terminal signal tests)

-Standard default settings classified by inverter model (capacity)

(the following table)

Inverter type	Torque boost u b F 172 F 176 F 180	Base frequency voltage u L F 171 F 175 F 179	Acc/dec time R C C d E C F 500 F 501 F 510 F 511 F 514 F 515	PWM Carrier frequency C F	Dynamic braking resistance P b r	Allowable continuous braking resistance P b C P	Carrier frequency control mode selection F 3 16	Inverter side switching waiting time F 356	Motor rated capacity F 405	Motor rated current F 406	Motor rated rotational speed F 407 *1	Motor constant 1 (torque boost) F 4 10	Motor constant 2 (no load current) F 4 11	Motor constant 3 (leak inductance) F 4 12	Motor constant 4 (rated slip) F 4 13	Display unit selection for integral output power F 749
VFAS1-2004PL	8.0	230	10.0	12.0	200.0	0.12	1	0.57	0.40	2.0	1680	7.8	6.1	120	6.67	0
VFAS1-2007PL	8.0	230	10.0	12.0	200.0	0.12	1	0.57	0.75	3.4	1690	7.3	5.4	100	6.11	0
VFAS1-2015PL	6.0	230	10.0	12.0	75.0	0.12	1	0.57	1.50	6.2	1690	7.1	4.5	70	6.11	0
VFAS1-2022PL	6.0	230	10.0	12.0	75.0	0.12	1	0.57	2.20	8.9	1680	5.9	4.1	70	6.67	0
VFAS1-2037PL	6.0	230	10.0	12.0	40.0	0.12	1	0.67	3.70	14.8	1690	4.9	3.6	80	6.11	1
VFAS1-2055PL	4.0	230	10.0	12.0	20.0	0.24	1	0.87	5.50	21.0	1730	3.9	3.4	70	3.89	1
VFAS1-2075PL	4.0	230	10.0	12.0	15.0	0.44	1	0.87	7.50	28.2	1730	3.4	3.3	70	3.89	1
VFAS1-2110PM	3.0	230	10.0	12.0	10.0	0.66	1	1.07	11.0	40.6	1730	2.8	2.7	60	3.89	1
VFAS1-2150PM	3.0	230	10.0	12.0	7.5	0.88	1	1.07	15.0	54.6	1730	2.5	2.7	60	3.89	1
VFAS1-2185PM	3.0	230	30.0	4.0	7.5	0.88	1	1.37	18.5	68.0	1750	2.6	2.7	70	2.78	1
VFAS1-2220PM	3.0	230	30.0	4.0	3.3	1.76	1	1.37	22.0	80.0	1750	2.4	2.7	70	2.78	1
VFAS1-2300PM	3.0	230	30.0	4.0	3.3	1.76	1	1.37	30.0	108.0	1745	2.2	2.6	70	3.06	1
VFAS1-2370PM	3.0	230	30.0	4.0	2.0	2.20	1	1.37	37.0	134.0	1750	1.8	2.6	70	2.78	2
VFAS1-2450PM	3.0	230	30.0	4.0	2.0	2.20	1	1.37	45.0	160.0	1750	1.7	2.6	60	2.78	2
VFAS1-2550P	3.0	230	30.0	2.5	2.0	2.20	1	1.87	55.0	196.0	1755	1.6	2.4	70	2.50	2
VFAS1-2750P	2.0	230	60.0	2.5	1.7	3.40	1	2.37	75.0	258.0	1775	1.5	2.8	50	1.94	2
VFAS1-4007PL	8.0	*2	10.0	12.0	200.0	0.12	1	0.57	0.75	1.7	1690	7.3	5.4	100	6.11	0
VFAS1-4015PL	6.0	*2	10.0	12.0	200.0	0.12	1	0.57	1.50	3.1	1690	7.1	4.5	60	6.11	0
VFAS1-4022PL	6.0	*2	10.0	12.0	200.0	0.12	1	0.57	2.20	4.5	1680	5.9	4.1	70	6.67	0
VFAS1-4037PL	6.0	*2	10.0	12.0	160.0	0.12	1	0.67	3.70	7.4	1690	4.9	3.6	70	6.11	1
VFAS1-4055PL	4.0	*2	10.0	12.0	80.0	0.24	1	0.87	5.50	10.5	1730	3.9	3.4	70	3.89	1
VFAS1-4075PL	4.0	*2	10.0	12.0	60.0	0.44	1	0.87	7.50	14.1	1730	3.4	3.3	70	3.89	1
VFAS1-4110PL	4.0	*2	10.0	12.0	40.0	0.66	1	1.07	11.0	20.3	1730	2.8	2.7	60	3.89	1
VFAS1-4150PL	3.0	*2	10.0	12.0	30.0	0.88	1	1.07	15.0	27.3	1730	2.5	2.7	60	3.89	1
VFAS1-4185PL	3.0	*2	30.0	4.0	30.0	0.88	3	1.37	18.5	34.0	1750	2.6	2.7	70	2.78	1
VFAS1-4220PL	3.0	*2	30.0	4.0	15.0	1.76	3	1.37	22.0	40.0	1750	2.4	2.7	70	2.78	1
VFAS1-4300PL	3.0	*2	30.0	4.0	15.0	1.76	3	1.37	30.0	54.0	1745	2.2	2.6	70	3.06	1
VFAS1-4370PL	3.0	*2	30.0	4.0	8.0	1.76	3	1.37	37.0	67.0	1750	1.8	2.7	70	2.78	2
VFAS1-4450PL	3.0	*2	30.0	4.0	8.0	1.76	3	1.37	45.0	80.0	1750	1.7	2.6	60	2.78	2
VFAS1-4550PL	3.0	*2	30.0	4.0	8.0	1.76	3	1.37	55.0	98.0	1755	1.6	2.4	70	2.50	2
VFAS1-4750PC	2.0	*2	60.0	4.0	8.0	1.76	3	1.37	75.0	129.0	1775	1.5	2.8	50	1.94	2
VFAS1-4900PC	2.0	*2	60.0	2.5	3.7	7.40	3	1.37	90.0	153.0	1775	1.3	2.6	50	1.94	2
VFAS1-4110KPC	2.0	*2	60.0	2.5	3.7	7.40	3	1.37	110.0	183.0	1775	1.5	2.1	30	1.94	2
VFAS1-4132KPC	2.0	*2	60.0	2.5	3.7	7.40	3	1.37	132.0	217.0	1765	0.7	2.0	40	1.94	2
VFAS1-4160KPC	1.5	*2	60.0	2.5	3.7	7.40	3	1.37	160.0	271.0	1765	0.6	2.0	40	1.94	2
VFAS1-4200KPC	1.5	*2	60.0	2.5	1.9	8.70	3	1.37	200.0	333.0	1765	0.6	2.0	40	1.94	2
VFAS1-4220KPC	1.5	*2	60.0	2.5	1.9	8.70	3	1.37	220.0	371.0	1765	0.6	2.0	40	1.94	2
VFAS1-4280KPC	1.0	*2	60.0	2.5	1.4	14.00	3	1.37	280.0	464.0	1765	0.6	2.0	40	1.94	2
VFAS1-4355KPC	1.0	*2	60.0	2.5	0.9	17.40	3	1.37	355.0	614.0	1765	0.6	2.0	30	1.94	3
VFAS1-4400KPC	1.0	*2	60.0	2.5	0.7	28.00	3	1.37	400.0	691.0	1765	0.6	2.0	30	1.94	3
VFAS1-4500KPC	0.5	*2	60.0	2.5	0.7	28.00	3	1.37	500.0	830.0	1765	0.6	2.0	30	1.94	3

*1: Factory default settings when the base frequency (u L) is set at 60Hz (50Hz) *2: Inverter with a model number ending with -WN1: 460 -WP1: 400