	Sienci Labs	This for the 110V	2.2KW Water Cooled Spindle w/ 400HZ+2.2	KW VFD 110V Single to 3 Phase H100 VFD
Eunotion	Spindle Kit	Factory value		
Function code	Default Values	after reset	Name of parameter	Setting range and data content
	Highlighted values are modified from factory values	using F013		
	after reset using F013			
	parameters should nev	er be changed		
Basic				
			s which must match the spindle, and acceleration,	O: Disabled
F000	0	0	Parameter locking	1: Enabled
F001	2	0	Control mode	0: Keyboard 1: External input terminals 2: Communication interface
F002	2	3	Frequency setting selection	0: Set by F003 1: Al1 (signal type set by F070) 2: Communication interface (frequency set by 0201h register value) 3: Potentiometer on keyboard 4: Al2 (signal type set by F070) 5: PFI (frequency set by pulse frequency of the X5 terminal input pulse) 6: Al1+Al2 7: PID (frequency set by output of PID regulator)
F003	400	50	Main frequency	0.0 ~ 1000.0 Hz
F004	400	50	Reference frequency	0.1 ~ 1000.0 Hz
F005	400	50	Maximum operating frequency	10.0 ~ 1000.0 Hz
F006	10	10	Intermediate frequency	0.1 ~ 1000.0 Hz
F007	0.5	0.5	Starting frequency	0.1 ~ 20.0 Hz
F008	380	380	Maximum voltage	0.1V ~ *
F009	14	14	Intermediate voltage	F010 ~ 30.0% voltage corresponding to 10% fundamental frequency
F010	5	5	Low-frequency torque boost voltage	0.0 ~ 9.0% voltage corresponding to 1% fundamental frequency
F011	125	0	Lower frequency limit	0.0 ~ 1000.0 Hz
F012	1	1	Drive control mode	0: VF 1: Vector control 2: V2F 3: VF separation
F013	0	0	Parameter resetting	8: Restore ex-factory value
F014	10	5	Acceleration time I	0.1 ~ 650.00s
F015	10	5	Deceleration time I	0.1 ~ 650.00s
F016	5	5	Acceleration time II	0.1 ~ 650.00s
F017	5	5	Deceleration time II	0.1 ~ 650.00s
F018	5	5	Acceleration time III	0.1 ~ 650.00s
F019 F020	5 5	5 5	Deceleration time III	0.1 ~ 650.00s 0.1 ~ 650.00s
F020	5	5	Acceleration time IV (jogging acceleration time) Deceleration time IV (jogging acceleration time)	0.1 ~ 650.00s
F022	0	0	Emergency stop (digital input terminal 13)	0.1 ~ 650.00s
Application			deceleration time	O: Emergency stop by coasting
	e largely unused, but de	etermine some charac	teristics of spindle control	
F023	1	1	Reverse prohibit	0: Prohibited 1: Allowed
F024	1	1	Stop key enabled	0: Disabled 1: Enabled Parameter only works if F001 = 1 or 2
F025	0	0	Start mode	O: Start from starting frequency (when F029 is non-zero, DC brake first then start) 1: Frequency tracking start (used for high inertia loads, F033 generally set ~100)
F026	0	0	Stop mode	O: Ramp (if F030 = 0 then will still coast, otherwise after inverter decelerates to stop frequency then DC braking will take over which can cause motor heating) 1: Coast (no DC braking)
F027	0	0	Dead time of positive and negative rotation	0.0 ~ 50.0s
F028	0	0	Stop frequency	0.1 ~ 30.0 Hz
F029	0	0	DC braking time when starting	0.0 ~ 25.0s
F030	0	0	DC braking time when stopping	0.0 ~ 25.0s
F031	30	30	DC braking level	0.0 ~ 100.0%
F032	5	5	Frequency tracking time	0.1 ~ 20.0s
F033	150	150	Frequency tracking current level	0 ~ 200%

F034	0	0	Voltage rise time during frequency tracking	0.1 ~ 10.0s
F035	0	0	Percentage of start voltage during frequency tracking	1 ~ 20%
F036	5	5	Voltage increment during frequency tracking	1 ~ 20V
F037 - F038			Voltage merement daring frequency tracking	Reserved
F039	4	4	Starting frequency of DC braking	0 ~ 15.0 Hz
F040	0	0	F/R key function selection	0: F/R 1: Control channel mandatory for keyboard 2: Count value clear 0 (see F065) When F040 is set to 1 and the F/R light is on, the control channel is forced to be the keyboard and the frequency is forced to be given by the keyboard potentiometer
F041	5	5	Carrier frequency	0~15
F042	5	5	Jog frequency	0.0 ~ 1000.0 Hz
F043	0	0	S curve time	0.0 ~ 6500.0s (valid when F014 is smaller than F043, provided that the actual acceleration is (F014+F043)/2) 0: Disabled
Input/output	Terminals			
These settings de	etermine functionality	of the various control I	/O on the VFD	
F044	2	2	FOR (X1) function	0: Disabled 1: Run 2: Forward rotate 3: Reverse rotate 4: Stop
F045	3	3	REV (X2) function	- 5: Forward/reverse switching (can also be done with three-wire connection to terminals) 6: Jog 7: Jog forward (see F020, F021, F042) 8: Jog reverse (see F020, F021, F042) 9: External control timer I 10: External control timer II
F046	14	14	RST (X3) function	11: Set frequency to F003 value 12: Radiator or motor overheating 13: Emergency stop 14: Reset (after fault elimination) 15: Set frequency to Al2 value 16: Touch run/stop control
F047	22	22	SPH (X4) function	17: Acceleration/deceleration time selection I 18: Acceleration/deceleration time selection II 19: Multi-segment speed I 20: Multi-segment speed II 21: Multi-segment speed III 22: High speed (set by frequency II)
F048	23	23	SPM (X5) function	23: Medium speed (set by frequency III) 24: Low speed (set by frequency IV) 25: PID allowed 26: Multi-segment speed IV 27: UP function (increase frequency) 28: DOWN function (decrease frequency) 29: Draft actuation allowed 30: PF I (pulse counter <250 Hz, only available for X5)
F049	24	24	SPL (X6) function	31: Reserved 32: Pulse counter reset 33: Stop the machine if the yarn is broken (only available for X4) The counter trigger pulse corresponding to F064 and F065 is only available for X5 input
F050	1	1	Y1 output function	Outputs will contact to indicate 0: Disabled 1: Inverter running 2: Zero-speed (output frequency < start-up frequency) 3: Fault 4: DC braking 5: Set frequency arrival 6: Acceleration underway 7: Deceleration underway 8: Frequency consistency I (F060) arrival 9: Frequency consistency II (F061) arrival
F051	5	5	Y2 output function	11: Over-torque 12: Inverter overload 13: Pulse set counter (F065) arrival 14: Pulse middle counter (F066) arrival 15: External control timer I arrival 16: Reserved 17: Low-voltage 18: Internally controlled multi-segment speed stage completion 19: Internally controlled multi-segment speed process completion 20: 4 ~ 20mA offline (Al input if F070 > 2) 21: Ready for operation

F052	0	0	Output function (KA & KC terminals)	22: Reserved 23: Valid indication run command signal 24: EDO 25: Auxiliary pump 1 control 26: Auxiliary pump 2 control 27: Draft completed (resets when inverter stops) 28: PID lower limit alarm (see F162) 29: PID upper limit alarm (see F161) 30: Braking resistance underway 31: Relay control
F053	3	3	Output function (FA, FB & FC terminals)	32: Fan control (when temp is high or inverter is on)
F054	0	0		0: Output frequency, 0 - max operating frequency 1: Output current, 0 - x2 rated current of inverter 2: DC bus voltage , 0 - 1000V 3: Output voltage, 0 - 255/510V
F055	100	100	AO analog output gain	0 ~ 100%
F056	0	0	Swing frequency amplitude	5.10 ~ 60.0% of center frequency 0: Swing frequency function is disabled
F057	10	10	Jump amplitude	0.0 ~ 50% of swing amplitude
F058	10	10	Swing frequency cycle	0.0 ~ 100.0s
F059	50	50	Swing frequency rise time	0.1 ~ 99.9% of swing cycle
F060	0	0	Frequency consistency I (constant pressure water supply high speed frequency)	0.0 ~ 1000.0 Hz
F061	0	0	Frequency consistency II (constant pressure water supply low speed frequency)	0.0 ~ 1000.0 Hz
F062	0.5	0.5	Frequency Consistency range setting	0.1 ~ 10.0 Hz
F063 F064	5	1 5	Timer I (continues even during fault) Monostable pulse width setting	0.1 ~ 999.9s 0.1 ~ 65.0s
F004	5	5	Monostable pulse width setting	0.1 ~ 65.0s 0 ~ 65500
F065	0	0	Counter reference value	Pulse number unit: 1 Length unit: 0.01
F066	O	0		Units digit 0: Length 1: Count pulses Tens digit 0: Stop when the count reaches the set value 1: Keep running when the count reaches the set value Hundreds digit 0: Monostable pulse output is not started when the count reaches the set value 1: Monostable pulse output is started when the count reaches the set value 1: Monostable pulse output is started when the count reaches the set value Thousands digit 0: If the count reaches the set value, it will not be cleared automatically 1: If the count reaches the set value, it will be cleared automatically
F067	0	0	jumper J2)	0: Positive logic, NPN wiring 1: Negative logic, PNP wiring
F068	20	20	Digital input terminal dithering elimination time	0 ~ 60000ms
F069	10	10	PFI/PFO maximum frequency	1.0 ~ 10.0 kHz
Analog Input/	Output Parameter	rs		
These settings co	onfigure the characteris	tics of the analog con	rol I/O of the VFD (such as PWM control)	
F070	O	0	Input channel selection for analog quantity (can also be selected by channel 2 through jumper J3)	Units digit (AI1) 0: 0 ~ 10V 1: 0 ~ 5V Tens digit (AI2) 0: 0 ~ 20mA / 0 ~ 10V 1: 4 ~ 20mA / 2 ~ 10V (500Ω) 2: 4 ~ 20mA / 1 ~ 5V (250Ω)
F071	20	20	Filtering time of analog quantity	0 ~ 1000ms
F072	100	100		0.0 ~ 500.0 %
F073	100	100	Al2 channel gain	0.0 ~ 500.0 %
F074	0	0	Al1 channel offset	-50.0 ~ 50.0 %
F075	0	0	Al2 channel offset	-50.0 ~ 50.0 %
F076	0	0	Negative bias reverse of analog quantity	0: Irreversible 1: Reversible
F077	0	0	UP/DOWN value memory after stop	0: Don't remember 1: Remember If F117 also on, will recall value after power off
F078	1	1	UP/DOWN increment selection	0: 0.1 Hz 1: 1.0 Hz
F079	1	1	UP/DOWN increment multiple	1 ~ 250
Multi-segmer	nt Speed			

P081 O	These settings ar	a not used			
P081 0			2		1: Internally controlled 16-segment speed 2: Externally controlled 4-segment speed 3: Externally controlled 16-segment speed 4: Externally controlled 4-segment speed (run command valid automatically) 5: Externally controlled 16-segment speed (run command valid automatically)
Pi082 0	F081	0	0		O: Stop after one cycle 1: Circulating 2: One cycle automatic running (stop interval) 3: Circulating automatic running (stop interval)
F083	F082	0	0	controlled 8	0: Forward 1: Reverse
F084	F083	0	0	controlled 8	0: Forward 1: Reverse
F085	F084	0	0	internally controlled	
F086	F085	0	0	internally	
F087	F086	15	15	-	
F088	F087			1 1	
F089	F088	25	25		
F090					
F091	F090		35		
F092					
F093					
F094					0.0 1000 0 Hz
F095 20 20 Frequency XI setting					0.0 ~ 1000.0 112
F096					
F097 30 30 Frequency XIII setting					
F098 35 35 Frequency XIV setting					
F099					
F100				. , ,	
F101				1 , 9	
F102 10 10 10 Internally controlled multi-segment speed timer II II Internally controlled multi-segment speed timer III II Internally controlled multi-segment speed timer IV II INTERNAL INTERN		45		Frequency XVI setting	
F102	F101	10	10	, , , , , , , , , , , , , , , , , , , ,	
F104 0 0 0 Internally controlled multi-segment speed timer VIII F106 0 0 0 Internally controlled multi-segment speed timer VIII F107 0 0 0 Internally controlled multi-segment speed timer VIII F108 0 0 0 Internally controlled multi-segment speed timer VIII F109 0 0 Internally controlled multi-segment speed timer VIII F109 0 0 Internally controlled multi-segment speed timer VIII F110 0 0 Internally controlled multi-segment speed timer XII F111 0 0 0 Internally controlled multi-segment speed timer XII F112 0 0 0 Internally controlled multi-segment speed timer XIII F113 0 0 0 Internally controlled multi-segment speed timer XIII F114 0 0 0 Internally controlled multi-segment speed timer XIII F115 0 0 0 Internally controlled multi-segment speed timer XIII F116 0 0 Internally controlled multi-segment speed timer XIII F117 0 0 0 Internally controlled multi-segment speed timer XIII F119 0 0 0 Internally controlled multi-segment speed timer XIII F110 0 0 Internally controlled multi-segment speed timer XIII F111 0 0 0 Internally controlled multi-segment speed timer XIII	F102	10	10	ıı .	
F105 0 0 Internally controlled multi-segment speed timer VI F106 0 0 0 Internally controlled multi-segment speed timer VI F107 0 0 Internally controlled multi-segment speed timer VII F108 0 0 Internally controlled multi-segment speed timer VIII F109 0 0 Internally controlled multi-segment speed timer VIII F109 0 0 Internally controlled multi-segment speed timer IX F110 0 0 Internally controlled multi-segment speed timer X F111 0 0 Internally controlled multi-segment speed timer XI F112 0 0 Internally controlled multi-segment speed timer XI F113 0 0 Internally controlled multi-segment speed timer XIII F114 0 0 0 Internally controlled multi-segment speed timer XIII F115 0 0 Internally controlled multi-segment speed timer XIV				III	
F106 0 0 Internally controlled multi-segment speed timer VI F107 0 0 0 Internally controlled multi-segment speed timer VII F108 0 0 Internally controlled multi-segment speed timer VIII F109 0 0 Internally controlled multi-segment speed timer VIII F110 0 0 Internally controlled multi-segment speed timer XI F111 0 0 0 Internally controlled multi-segment speed timer XI F112 0 0 Internally controlled multi-segment speed timer XI F113 0 0 Internally controlled multi-segment speed timer XIII F114 0 0 0 Internally controlled multi-segment speed timer XIII F115 0 0 Internally controlled multi-segment speed timer XIII F115 0 0 Internally controlled multi-segment speed timer XIV F115 0 Internally controlled multi-segment speed timer XIV	F104	0	0	IV	
F107 0 0 Internally controlled multi-segment speed timer VII F108 0 0 Internally controlled multi-segment speed timer VIII F109 0 0 Internally controlled multi-segment speed timer IX F110 0 0 Internally controlled multi-segment speed timer X F111 0 0 0 Internally controlled multi-segment speed timer X F112 0 0 0 Internally controlled multi-segment speed timer XIII F113 0 0 Internally controlled multi-segment speed timer XIII F114 0 0 0 Internally controlled multi-segment speed timer XIII F115 0 0 Internally controlled multi-segment speed timer XIV F115 0 0 Internally controlled multi-segment speed timer XV Internally controlled multi-segment speed timer XIV Internally controlled multi-segment speed timer XV Internally controlled multi-segment speed timer XV	F105			V	
F108 0 0 Internally controlled multi-segment speed timer VIII F109 0 0 Internally controlled multi-segment speed timer IX F110 0 0 Internally controlled multi-segment speed timer IX F111 0 0 0 Internally controlled multi-segment speed timer XI F112 0 0 Internally controlled multi-segment speed timer XI F113 0 0 Internally controlled multi-segment speed timer XII F114 0 0 Internally controlled multi-segment speed timer XIII F115 0 0 Internally controlled multi-segment speed timer XIII F115 0 0 Internally controlled multi-segment speed timer XIV				VI	
F109 0 0 Internally controlled multi-segment speed timer X				VII	
F110 0 0 0 Internally controlled multi-segment speed timer X Internally controlled multi-segment				VIII Internally controlled multi-segment speed timer	0.0 ~ 6500.0s
F111 0 0 Internally controlled multi-segment speed timer XI F112 0 0 Internally controlled multi-segment speed timer XII F113 0 0 0 Internally controlled multi-segment speed timer XIII F114 0 0 0 Internally controlled multi-segment speed timer XIV F115 0 0 0 Internally controlled multi-segment speed timer XIV				Internally controlled multi-segment speed timer	
F112 0 0 Internally controlled multi-segment speed timer XII F113 0 0 Internally controlled multi-segment speed timer XIII F114 0 0 0 Internally controlled multi-segment speed timer XIV F115 0 0 0 Internally controlled multi-segment speed timer XV	F111	0	0	Internally controlled multi-segment speed timer	
F114 0 0 Internally controlled multi-segment speed timer XIV F115 0 0 Internally controlled multi-segment speed timer XV	F112	0	0	Internally controlled multi-segment speed timer	
F115 0 0 XIV Internally controlled multi-segment speed timer XV	F113	0	0	XIII	
XV XV	F114	0	0	XIV	
	F115	0	0	XV	O. Dan't remainder
F116 0 Internally controlled multi-segment speed timer XVI	F116	0	0	XVI	
F117 0 0 Internally controlled multi-segment speed 0: Don't remember 1: Rememb	F117	0	0	memory function (UP/DOWN power fault	1: Remember

Protection					
These settings control electrical protection of the VFD and spindle in case of an issue or overloading of the spindle					
F118	1	1	Over-voltage stall prevention	0: Disabled 1: Enabled	
F119	155	155	Stall level during acceleration	0 ~ 200% 0: Disabled	
F120	150	150	Stall level during constant speed	0 ~ 200%	
F121	5	5	Deceleration time for stall prevention during constant speed	0.1 ~ 25.5s	
F122	370	720	Prevent of over-voltage stalling level	200 ~ 800V	
F123	1	1	Over-torque detection mode	O: At speed, start detecting over torque but continue after detecting 1: At speed, start detecting over torque and stop after detecting 2: While running, detect over torque but continue after detecting 3: While running, detect over torque and stop after detecting	
F124	0	0	Over-torque detection level	0 ~ 200% 0: Disabled	
F125	1	1	Over-torque detection time	0.1 ~ 20.0s At half the set time, the multi-function output terminal will actuate with an over-torque alarm	
F126	0	0	Counter memory after power failure	0: Not memorized 1: Memorized	
F127			Pulse counter memory	0 ~ 65000	
F128	1	1	Cooling fan control	0: Always running 1: Controlled by running command, delayed 30s after turning off	
F129	360	360	Dynamic braking voltage	0 ~ 800V	
Constant-pre	ssure water supply	,			
These settings ar	re not used				
F130	0	0	Number of auxiliary pumps	0~2	
F131	60	60	Continuous time of auxiliary pump	1 ~ 9000min Time before alternate to other pump if there are 2	
F132	5	5	Interlocking time of auxiliary pump	1 ~ 250s Time delay while switching pumps	
F133	60	60	High-speed operating time	1 ~ 250s Alongside F060	
F134	60	60	Low-speed operating time	1 ~ 250s Alongside F061	
F135	98	98	Sleep pressure threshold	1 ~ 120% This value is a percent of the given pressure Sleep needs the hundreds digit of F160 to be on	
F136	30	30	Sleep delay	1 ~ 250s	
F137	85	85	Wake-up threshold	1 ~ 150% This value is a percent of the given pressure	
F138	10	10	Sleep frequency	0.0 ~ 1000.0 Hz 1 ~ 250s	
F139 Motor	2	2	Wake-up delay	1~2505	
	re used to match the VE	D with the specificati	ons of the spindle motor		
F140	2.2	1.5	Rated power of motor	kW set as per motor nameplate	
F141	110	220	Rated voltage of motor	V set as per motor nameplate	
F142	12.5	7	Rated current of motor	A set as per motor nameplate	
F143	2	4	Number of motor poles	2 ~ 22	
F144	2400	1450	Rated rotating speed of motor	0 ~ 60000 r/min Set according to the rotating speed at 50Hz	
F145	2	2	Automatic torque compensation	0.0 ~ 10.0%	
F146	40	40	Motor no-load current	0 ~ 100%	
F147	0	0	Motor slip compensation	0 ~ 1.0	
F148	4	4	Motor slip compensation maximum frequency	0.0 ~ 20.0 Hz	
F149	100	100	Motor slip compensation filtering time	0 ~ 200ms	
F150	2	2	AVR function (automatic voltage regulation)	0: Disabled 1: Enabled	
F151	0	0	Automatic energy-saving function	0.0 ~ 20.0% 0: Disabled	
F152	1	1	Fault restart time	0.2 ~ 25.0s 0: Disabled (won't restart after momentary outage)	
F153	0.5	0.5	Power failure restart Allowable outage duration	1: Frequency tracking startup (see F025) 0.1 ~ 5.0s	
F154	0.5	0.5	Times of fault restart	0.1 ~ 5.05 0 ~ 99 0: Disabled 99: Infinite restart	
PID					
These settings ar	re not used				
F156	10	10	Proportional constant (P, error value gain)	0.0 ~ 1000.0%	
F157	2	2	Integration time (I, inverse response speed)	0.1 ~ 3600.0s	
. 157	_			0: Disabled	

				0.04 40.00-
F158	0	0	Derivation time (D, attenuation)	0.01 ~ 10.00s 0: Disabled
F159	50	50	Target value	0.0 ~ 100.0% See manual for deeper explanation
F160	10	10	PID channel setting	Units digit (PID set by) 0: Value of F159 1: Al1 (analog 0-10V) 2: Al2 (analog 0-10V) Tens digit (PID feedback channel) 0: Al1 (analog 0-10V) 1: Al2 (analog 0-10V) 2: PFI Hundreds digit (PID sleep function) 0: Sleep function is prohibited 1: Enable sleep mode 1 (frequency mode) 2: Enable sleep mode 2 (pressure mode) Thousands digit (PID action direction) 0: Positive 1: Negative
F161	100	100	PID feedback upper limit (actuate multi-function output)	0 ~ 100%
F162	0	0	PID feedback lower limit (actuate multi-function output)	0 ~ 100%
RS485 Comm	unication Paramet	ers		
	ntrol the setup of RS48		the VFD	
F163	2	1	Communication address	0 ~ 250
1 103	2	<u> </u>	Communication address	0: Disabled
F164	2	2	Communication transmission speed	0: 4800 bit/s 1: 9600 bit/s 2: 19200 bit/s 3: 38400 bit/s
F165	3	3	Communication data mode	0: 8N1 for ASCII 1: 8E1 for ACSII 2: 8O1 for ACSII 3: 8N1 for RTU 4: 8E1 for RTU 5: 8O1 for RTU
F166				Reserved
F167	0			Reserved
F168	0			Reserved
F169	0	0	Given decimal point of communication frequency	Communication 0201H register adopts 1 bit decimal Communication 0201H register adopts 2 bit decimal See manual for much deeper explanation
Monitoring				
These settings co	ntrol the display functi	onality on the VFD of	various statuses	
F170	4	4	Selection of extension display 1	0: Disabled 1: PID feedback value 2: Running speed 3: PID target value
F171	5	5	Selection of extension display 2	4: DC bus voltage 5: Heat sink temperature 6: Counter value 7: Output torque 8: Input terminal status 9: Al1 10: Al2 11: PFI
F172	0	-	Fault clearing	00-10 01: Clear fault (all others reserved for factory use)
F173	220	220	Rated voltage of inverter	Set in factory according to inverter model
F174	7	7	Rated current of inverter	Set in factory according to inverter model
F175	0	0	Inverter type	0: Constant torque 1: Fan model
F176	0	0	Inverter frequency standard	0: 50 Hz 1: 60 Hz
F177 F178	-	-	Unexpected error 1 Unexpected error 2	
F178 F179	-	-	Unexpected error 2 Unexpected error 3	Check fault display, "-" means no fault record
F1/9 F180	-	-	Unexpected error 4	-
F180	1.77	-	Software version number	0 ~ 2.55
F181	0	-	Running time	0 ~ 3600s
F183	10	-	Cumulative running time	0 ~ 65535h
F184	1	1	RPM display factor	0.000 ~ 9.999 Set F170 or F171 = 2 to display running speed
				, , , , ,

F185	0	0	Start up preset display selection PID automatic display enable	0: Output frequency 1: Setting frequency 2: Output current 3: Output voltage 4: Set by F170 5: Set by F171 0: Display output frequency and set frequency 1: Display PID feedback value and PID set value 2: Display output frequency and PID set value
F187	1	1	PID display selection	O: Original percentage 1-bit decimal 1: Display 1 bits after decimal point according to F188 2: Display 2 bits after decimal point according to F188
F188	100	100	Display number corresponding to PID value	1 ~ 1000
F189	1.01	-	Motor CPU software version number	
Advanced Ext	ended			
Advanced setting	s pertaining to motor o	control		
F190	0	0	Magnetic flux braking enable	0: Disabled 1: Enabled Can shorten deceleration time with a large inertia
F191	115	115	Magnetic flux braking strength	100 ~ 200%
F192	30	30	Motor oscillation compensation factor	0 ~ 500
F193	0	0	Output open-phase protection	O: Inverter output allowed when the load is out of phase (required for single-phase motors) 1: Inverter output prohibited when the load is out of phase
F194	0	0	0 Hz inverter output	0: Inverter output allowed at 0 Hz 1: Inverter output prohibited at 0 Hz
F195	1	1	VF separation voltage control	0: Reserved 1: Al1 2: Reserved 3: Potentiometer on keyboard 4: Al2 5-7: Reserved
F196	300	300	Acceleration and deceleration time of VF separation voltage	1 ~ 100.00s
F197	0	0	Motor reverse operation enable when PID output negative value	0: Disabled 1: Enabled
F198	0	0	LSD compensation enable	0: Disabled 1: Enabled
F199	0	0	Keyboard UP.DOWN memory function selection	0: Not memorized 1: Memorized
F200	0			Reserved