HITACHI
Inspire the Next

VARIABLE FREQUENCY DRIVE

SJ700&L700 series

POWERFUL INVERTER





@ Hitachi Industrial Equipment Systems Co., Ltd.

High performance, powerful

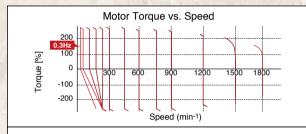
High starting Torque, Powerful Drive and easy setting

High starting Torque



Improved Sensorless Vector Control and Auto Tuning produce high starting torque of 200% or more at 0.3Hz.*1 Easy setup of motor constants

Ideal for applications which need high torque, such as cranes, extruders and lifts.



*1	Starting	torque

Series	Applicable motor	Starting torque				
	0.4 to 55kW	0.3Hz/200%				
SJ700	75 to 132kW	0.3Hz/180%				
	185 to 400kW	0.3Hz/150%				
L700	11 to 75kW	0.5Hz/150%				
L/00	90 to 160kW	0.5Hz/120%				

Hitachi exclusive **0Hz Domain sensorless** vector control



Develops 150%*2 torque at 0Hz speed reference

Ideal for cranes and other applications that require high torque at starting.

*2 when inverter is one frame size larger than motor.



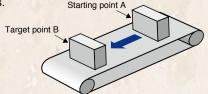
Position Control Function 51



The SJ700, with optional feedback board installed, together with an encoder-equipped motor can perform position

For many applications, suitable performance can be achieved at a lower cost than servo systems.

Based on your four motion parameters (position command, speed command, acceleration time and deceleration time), the SJ700 will move an object from original position A to target position B. After the movement, the inverter keeps servo lock status.

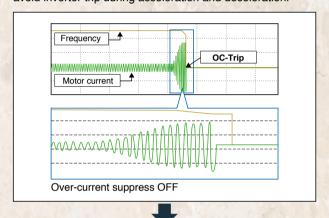


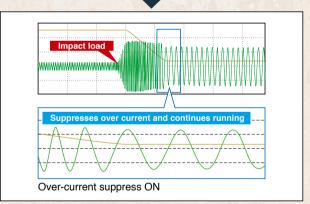
Trip avoidance function

Over current & voltage suppress function

Higher internal calculation speed improves current control performance.

Over-current suppress and Over-voltage suppress functions avoid inverter trip during acceleration and deceleration.

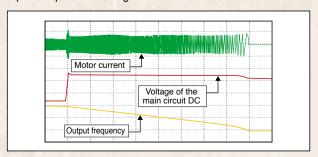




DC Bus AVR Function During Deceleration



The SJ700 controls deceleration time so that the DC bus voltage does not exceed the over-voltage trip level, providing trip-less operation during deceleration.



functions, yet user friendly.



Programming [EzSQ: Easy Sequence] function

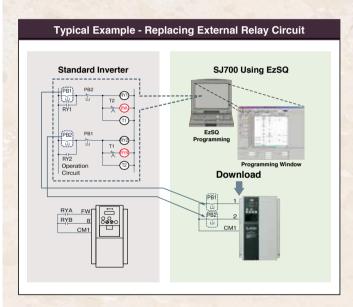
Inverter control by Built-in Programming function

Sequence operation is realized by downloading to an inverter a program created with Hitachi's Pro Drive Next software.

Tailor inverter operation to meet changing process requirements, and replace separate PLCs in some cases.

By simplifying or eliminating external hardware, signficant cost savings can be achieved.

Password function is incorporated to provide security for proprietary program data against loss or unauthorized modification.



ī	•	Item		Description						
ı		Language type	BASIC Like							
1	o	Supported Device	Windows(DOS/V	Vindows(DOS/V)OS:Windows2000, WindowsXP)						
	anguage Spec	Memory area	1,024 steps or 6k	byte	d in internal of inverter.					
	nag		Editor(Windows)	, Display(Windows	3)					
	ang	Programming environment	Grammar check(Windows)						
ı	_	environment	Program downloa	ad/upload, All clea	r					
1		Executable format	Interpreter 2.0ms	command (Sub re	outine supported. 8 nested)					
					pen collector signal input power supply available)					
			External digital contact input	Program RUN command	FW terminal is reserved					
	on	External input		General-purpose input	Maximum of 8 point(X(00)-X(07))					
١	ncti		Estamal analys	XA(0): 0-10V (O	terminal)					
ı	/O function		External analog input	XA(1): 4-20mA ((OI terminal)					
	\leq		·	XA(2): 0-10V (O	2 terminal)					
			General-purpose output terminal	Maximum of 8 po	pint(Y(00)-Y(05))					
ı		External output	Estamal analas	YA(0) : Setup for	FM terminal is possible.					
ı			External analog output	YA(1) : Setup for AM terminal is possible.						
				YA(2): Setup for AMI terminal is possible.						
				ow control <loop, conditional="" jump,="" jump<br="" unconditional="">b routine, Others></loop,>						
۱			Operation comm	and <+,-,,*, /, subs	stitution, mod, abs>					
ı		Command	I/O control(Bit inp	out, Word input, Bi	t output, Word output)					
ı				n delay, off delay>						
			Inverter parameter	er setting						
1			User	U(00)-U(31)/32	point					
1			Timer	UL(00)-UL(07)/8	3 point					
۱			Set frequency	SET-Freq						
۱	/ord		Acceleration time	ACCEL						
ı	S S		Deceleration time	DECEL						
	Reserved word	Variable	Monitor	PID feedback, Co	, Output current, Rotative direction, inverted frequency, Output torque, ower, Cumulative RUN time, r-on time, trip					
			General-purpose input contact	X(00)-X(07)/8 p	pint					
			General-purpose output contact	Y(00)-Y(05)/6 p	oint(1 point is relay output)					
			Internal user	UB(00)-UB(07)/	8 point					
			Internal timer contact	TD(0)-TD(7)/8 p	oint					
			Inverter input and output	In a remote ope	rator display code.					

^{*} Windows® is a registered trademark of Microsoft Corporation.U.S.A and other countries

EMC Filter & Brake circuit integrated as Standard

Built-in EMC Filter up to 150kW*

Cost and space reduction compared with external EMC Filter. Reduces electromagnetic noise.

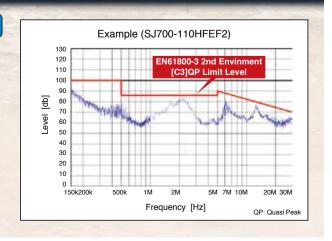
Meets EN61800-3 2nd-Environment

* SJ700: European Version and Japanese Version does not have 150 kW L700: All models

Brake circuit up to 22kW*

Cost and Space reduction compared with external Braking Controller.

* L700: Up to 30kW



Ease of Maintenance

Easy-removable construction for maintenance

Field replacement of cooling fan(s) and DC bus capacitors can be accomplished in a fraction of the time.

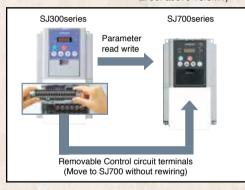
Using Logic terminal move to SJ700 without wiring change. Read SJ300 Parameter by WOP remote operator and write them in to SJ700







Easy-removable DC bus Capacitors (SJ700: above 15kW L700: above 18.5kW)



*1 Control circui	t terminals comparison table	•
Series	Input terminals	Output terminals
SJ700	9terminals	5terminals
L700	(Intelligent 8terminals,FW)	
SJ300	(Intelligent oterminals, W)	(Open collector outputs)
L300P	6terminals (Intelligent 5terminals,FW)	2terminals (Relay outputs)

Long life time components & Life time warning function [5]

Long life time components

Design lifetime 10 Years or more for DC bus capacitors & Cooling Fan.

Cooling Fan ON/OFF control function for longer fan life.

*Ambient temperature: Average 40 deg C (L700: 30 deg C) (no corrosive gases, oil mist or dust)

Design lifetime is calculated, and not guaranteed.

Life time warning function

Perform preventive maintenance before a failure occurs using the Lifetime Warning function.

DC bus capacitor, cooling fan, heat sink temperature and motor temperature can be monitored in order to replace components prior to failure.

Easy Operation

User selection of Displayed Parameters

Data comparison function

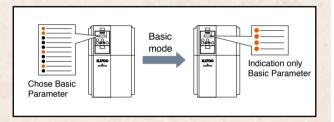
Allows display of only parameters changed from default.

User selected function

Display of up to 12 User Defined Parameters U001 to U012.

Basic mode (default)

Basic display mode for commonly used parameters.



Other Functions

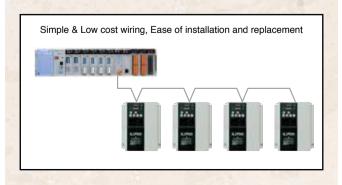
- -The direct input of function code selection is possible rather than scrolling through the list.
- -Holding down the function key for 3 seconds, causes the display to jump to output frequency monitor (d001) mode from any menu location.

Network compatibility

A serial RS-485 Modbus-RTU port is standard. The SJ700 can communicate with DeviceNet, PROFIBUS-DP, and other networks with communication



- -DeviceNet is a trade mark of Open DeviceNet Vender Association, Inc. -PROFIBUS-DP is a registered trade mark of PROFIBUS Nutzer
- Organization



Global standards

Conformity to global standards [5]

CE, UL, c-UL, RCM approvals.







Logic input & output Terminal [5] apply sink & source logic



Wide Input power voltage range

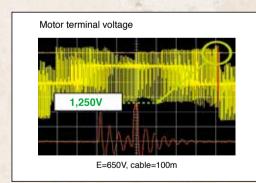
Input voltage 240V for 200V class and 480V for 400V class as standard.



Environmental Friendliness

Micro Surge Voltage suppress function

Hitachi original PWM control method limits motor terminal voltage to less than two of inverter DC bus voltage. Lower than Hitachi motor Max. insulation voltage (1,250V) (During regeneration, the motor terminal voltage may exceed the motor maximum insulation voltage (1,250V))



EU RoHS compliant



EU RoHS compliant (except solder in power module)

Improvement of environment



Varnish coating of internal PC board & plating of main circuit copper bus bar are standard.

Versatile Functions

Instantaneous Power Failure **Disregard Function**



The SJ700 ignores instantaneous power failure when power fluctuation happens frequently, as long as DC bus voltage remains higher than under-voltage trip level.

Emergency stop



Shuts down the inverter by hardware, bypassing the CPU, to achieve a reliable, emergency stop function.

Intelligent input terminal and output [5] terminal ON/OFF delay function

Helps simplify external circuits.

Active frequency matching function



Motor frequency match restart function operates effectively even without motor residual voltage.

Controlled deceleration and stop on power loss



Analog Input Disconnection Detection Function



The SJ700 (L700) outputs a disconnection signal when frequency command through analog input is lost.

Acceleration/Deceleration curve functions



The curve shape (five kinds, such as S-curve, etc.) can be chosen according to the application requirements.

Analog Command Holding Function (AHD)



Output frequency can be changed with UP/DOWN Function, or with an analog signal as reference value. The set frequency at power shutdown can be saved, too.

Pulse train input function



Pulse train input for Frequency reference or PID feed back signal, with SJ-FB (speed feed back card option).

Integrated Input Electric Power monitor



Input electric power (kW) and Integrated input electric power for monitoring energy saving.

Automatic Carrier Frequency Adjustment Function



The SJ700 detects motor current and automatically reduces carrier frequency according to the current.

The resolution of analog outputs (voltage, current) is improved to 10 bits





JQA-EM6974

Hitachi Industrial Equipment Systems Co., Ltd. NARASHINO division is certified for ISO 14001 (standard of environmental management system) and ISO 9001 (standard of quality assurance management system).

STANDARD SPECIFICATIONS

SJ700 Series

● 3-phase 200V class

Madal 0 1700		US Version	004LFUF2	007LFUF2	015LFUF2	022LFUF2	037LFUF2	055LFUF2	075LFUF2	110LFUF2	150LFUF2	185LFUF2	220LFUF2	300LFUF2	370LFUF2	450LFUF2	550LFUF2
Model SJ700-		JP Version	004LFF2	007LFF2	015LFF2	022LFF2	037LFF2	055LFF2	075LFF2	110LFF2	150LFF2	185LFF2	220LFF2	300LFF2	370LFF2	450LFF2	550LFF2
Enclosure (*1)				IP20													
Applicable motor	2)	0.4(1/2)	0.75(1)	1.5(2)	2.2(3)	3.7(5)	5.5(7.5)	7.5(10)	11(15)	15(20)	18.5(25)	22(30)	30(40)	37(50)	45(60)	55(75)	
	Rated capacity	200V	1.0	1.7	2.5	3.6	5.7	8.3	11.0	15.9	22.1	26.3	32.9	41.9	50.2	63.0	76.2
	(kVA)	240V	1.2	2.0	3.1	4.3	6.8	9.9	13.3	19.1	26.6	31.5	39.4	50.2	60.2	75.6	91.4
Output Ratings	Rated output currer	nt (A)	3	5	7.5	10.5	16.5	24	32	46	64	76	95	121	145	182	220
	Overload capacity(output current)	150%,60sec., 200%,3sec.														
	Rated output voltag	e (*3)		3-phase (3-wire) 200 to 240V (corresponding to input voltage)													
Input Rating	Rated input voltage	(V)					3-pl	nase 200	to 240V+	10%, -15	5%, 50/60	Hz±5%					
input rating	Rated input current	(A)	3.3	5.5	8.3	12	18	26	35	51	70	84	105	133	160	200	242
Dunking	Dynamic braking (S	Short-time) (*4)	Built-in BRD circuit (optional resistor) External dynamic braking unit (opt								it (option)						
Braking	Minimum value of re	esistor (Ω)	50	50	35	35	35	16	10	10	7.5	7.5	5			-	
Vibration (*5) 5.9m/s ² (0.6G), 10-55Hz						5.9m/s²(0.6G), 10-55Hz 2.9m/s²(0.3G), 10-55Hz											
EMC filter				Built-in (EN61800-3 category C3						C3)							
Zero-phase Rea	ctor									Built-in							
Weight [kg] ([lbs.])				3.5(7.7)	3.5(7.7)	3.5(7.7)	3.5(7.7)	6(13.2)	6(13.2)	6(13.2)	14(30.8)	14(30.8)	14(30.8)	22(48.4)	30(66)	30(66)	43(94.6)

● 3-phase 400V class

		European Version	007HFEF2	015HFEF2	022HFEF2	040HFEF2	055HFEF2	075HFEF2	110HFEF2	150HFEF2	185HFEF2	220HFEF2	300HFEF2	370HFEF2	450HFEF2	550HFEF2
Model SJ700-		US Version	007HFUF2	015HFUF2	022HFUF2	040HFUF2	055HFUF2	075HFUF2	110HFUF2	150HFUF2	185HFUF2	220HFUF2	300HFUF2	370HFUF2	450HFUF2	550HFUF2
	JP Version	007HFF2	015HFF2	022HFF2	037HFF2	055HFF2	075HFF2	110HFF2	150HFF2	185HFF2	220HFF2	300HFF2	370HFF2	450HFF2	550HFF2	
Enclosure (*1)									IP	20						
Applicable motor	(4-pole, kW(HP))	(*2)	0.75(1)	1.5(2)	2.2(3)	3.7(5) 4.0(5)	5.5(7.5)	7.5(10)	11(15)	15(20)	18.5(25)	22(30)	30(40)	37(50)	45(60)	55(75)
	Rated capacity	400V	1.7	2.6	3.6	6.2	9.6	13.1	17.3	22.1	26.3	33.2	40.1	51.9	63.0	77.6
	(kVA)	480V	2.0	3.1	4.4	7.4	11.6	15.7	20.7	26.6	31.5	39.9	48.2	62.3	75.6	93.1
Output Ratings	Rated output cur	rent (A)	2.5	3.8	5.3	9.0	14	19	25	32	38	48	58	75	91	112
	Overload capaci	ty(output current)		150%,60sec., 200%,3sec.												
	Rated output vol	tage (*3)		3-phase (3-wire) 380 to 480V (corresponding to input voltage)												
Input Rating	Rated input volta	age (V)		3-phase 380 to 480V +10%, -15%, 50/60Hz±5%												
iliput hatilig	Rated input curre	ent (A)	2.8	4.2	5.8	9.9	17	23	30	35	42	53	64	83	100	123
Drokina	Dynamic braking	(Short-time) (*4)	Built-in BRD circuit (optional resistor) External dynamic braking unit (option)													
Braking	Minimum value o	of resistor (Ω)	100	100	100	70	70	35	35	24	24	20		-	-	
Vibration (*5)			5.9m/s²(0.6G), 10-55Hz 2.9m/s²(0.3G), 10-55Hz													
EMC filter						Built-in (EN61800-3 category C3)										
Zero-phase Rea	ctor								Bui	lt-in						
Weight (kg) ((lb	s.])		3.5(7.7)	3.5(7.7)	3.5(7.7)	3.5(7.7)	6(13.2)	6(13.2)	6(13.2)	14(30.8)	14(30.8)	14(30.8)	22(48.4)	30(66)	30(66)	30(66)
														t/DOI	LL 400\ f	

		European Version	750HFEF2	900HFEF2	1100HFEF2	1320HFEF2	1850HFE2	2200HFE2	3150HFE2	4000HFE2		
Model SJ700-		US Version	750HFUF2	900HFUF2	1100HFUF2	1500HFUF2	1850HFU2	2200HFU2	3150HFU2	4000HFU2		
	JP Version			900HFF2	1100HFF2	1320HFF2	1850HF2	2200HF2	3150HF2	4000HF2		
Enclosure (*1)						IP	00					
Applicable motor	r (4-pole, kW(HP))	(*2)	75(100)	90(125)	110(150)	132(175)	185(250)	220(300)	315(400)	400(550)		
	Rated capacity	400V	103.2	121.9	150.3	180.1	256	305	416	554		
	(kVA)	480V	123.8	146.3	180.4	216.1	308	366	499	665		
Output Ratings	Rated output cui	rrent (A)	149	176	217	260	370	440	600	800		
	Overload capaci	ty(output current)	1509	%,60sec.,	200%,0.5	isec.	150°	%,60sec.,	180%,0.5	sec.		
	Rated output vol	tage (*3)	3-	phase (3-	wire) 380	to 480V (d	correspon	ding to in	out voltag	e)		
Input Rating	Rated input volta	age (V)		3-phase 380 to 480V +10%, -15%, 50/60Hz±5%								
input Hating	Rated input curre	ent (A)	164	164 194 239 286 389 455 630 840								
Broking	Dynamic braking	g (Short-time) (*4)	External dynamic braking unit (option)									
Draking	Braking Minimum value of resistor (Ω)			-								
Vibration (*5)	2.	9m/s²(0.3	G), 10-55	Hz	1.9	6m/s ² (0.2	(G), 10-55	БHz				
EMC filter	Built-in	(EN6180	0-3 categ	ory C3)		Externa	l Option					
Zero-phase Reactor				Bui	lt-in			Externa	l Option			
Weight (kg) ((lb	s.])		60(132)	60(132)	80(176)	80(176)	140(308)	145(319)	210(462)	360(792)		

(note) You need to use DC-Reactor(DCL-H-400) for SJ700-4000HF(E,U)2 inverter.

STANDARD SPECIFICATIONS

L700 Series

● 3-phase 200V class

-												
Model L700-			110LFF	150LFF	185LFF	220LFF	300LFF	370LFF	450LFF	550LFF	750LFF	
Enclosure (*1)			IP20									
Applicable motor	(4-pole, kW(HP)) (*	2)	11(15)	15(20)	18.5(25)	22(30)	30(40)	37(50)	45(60)	55(75)	75(100)	
	Rated capacity	200V	15.2	20.0	25.2	29.4	39.1	48.4	58.5	72.7	93.5	
	(kVA)	240V	18.2	24.1	30.3	35.3	46.9	58.1	70.2	87.2	112.2	
Output Ratings	Rated output curre	nt (A)	44	58	73	85	113	140	169	210	270	
	Overload capacity(c	utput current)		120%,60sec								
	Rated output voltage	ge (*3)	3-phase (3-wire) 200 to 240V (corresponding to input voltage)									
Input Rating	Rated input voltage	e (V)		3-phase 200 to 240V+10%, -15%, 50/60Hz±5%								
input nating	Rated input curren	t (A)	48	64	80	94	120	150 186 240				
Drokina	Dynamic braking (S	hort-time) (*4)	Bu	Built-in BRD circuit (optional resistor) External dynamic braking unit ((option)	
Braking	Minimum value of I	esistor (Ω)	10	10	7.5	7.5	5	-				
Vibration (*5)		5.9m/s ² (0.6G), 10-55Hz 2.9m/s ² (0.3G), 10-55Hz										
EMC filter	Built-in (EN61800-3 category C3)											
Zero-phase Rea					Built-in							
Weight (kg) ((lb	6(13.2)	6(13.2)	14(30.8)	14(30.8)	14(30.8)	22(48.4)	30(66)	30(66)	43(94.6)			

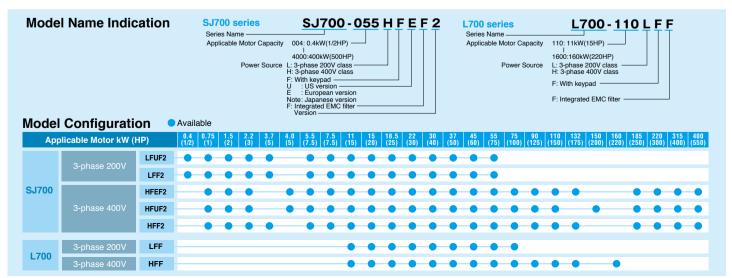
3-phase 400V class

- •															
Model L700-			110HFF	150HFF	185HFF	220HFF	300HFF	370HFF	450HFF	550HFF	750HFF	900HFF	1100HFF	1320HFF	1600HFF
Enclosure (*1)				IP20 IP00							00				
Applicable motor	(4-pole, kW(HP)) (*2	2)	11(15)	15(20)	18.5(25)	22(30)	30(40)	37(50)	45(60)	55(75)	75(100)	90(125)	110(150)	132(150)	160(220)
	Rated capacity	400V	15.2	20.0	25.6	29.7	39.4	48.4	58.8	72.7	93.5	110.8	135.0	159.3	200.9
	(kVA)	480V	18.2	24.1	30.7	35.7	47.3	58.1	70.6	87.2	112.2	133.0	162.1	191.2	241.1
Output Ratings	Rated output currer	nt (A)	22	29	37	43	57	70	85	105	135	160	195	230	290
	Overload capacity(o	utput current)		120%,60sec											
	Rated output voltag	je (*3)		3-phase (3-wire) 380 to 480V (corresponding to input voltage)											
Input Rating	Rated input voltage	· (V)	3-phase 380 to 480V +10%, -15%, 50/60Hz±5%												
input hatting	Rated input current	(A)	24	32	41	47	63	77	94	116	149	176	199	253	300
Drokina	Dynamic braking (Sh	nort-time) (*4)	Bu	Built-in BRD circuit (optional resistor) External dynamic braking unit (option)											
Braking	Minimum value of r	esistor (Ω)	35	35	24	24	24 20 -								
Vibration (*5)		5.9m/s ² (0.6G), 10-55Hz 2.9m/s ² (0.3G), 10-55Hz													
EMC filter Built-in (EN61800-3 category C3)															
Zero-phase Read	ctor								Built-in						
Weight (kg) ((lb	s.])		6(13.2)	6(13.2)	14(30.8)	14(30.8)	14(30.8)	22(48.4)	30(66)	30(66)	30(66)	55(121)	55(121)	70(154)	70(154)

- *1: The protection method conforms to JIS C 0920(IEC60529).
 *2: The applicable motor refers to Hitachi standard 3-phase motor (4-pole).To use other motors, be sure to prevent the rated motor current (50Hz) from exceeding the rated output current of the inverter.
- *3: The output voltage decreases as the main power supply voltage decreases except for the use of AVR function.

 *4: Braking resistor is not integrated in the inverter. Please install optional braking resistor or dynamic braking unit when large braking torque is required.

 *5: Conforms to the test method specified in JIS C 60068-2-6: 2010 (IEC 60068-2-6: 2007).
- *6: To operate the motor beyond 50/60Hz, please consult with the motor manufacturer about the maximum allowable rotation speed.
- *7: Storage temperature refers to the temperature in transportation.
- 18: The frequency command is the maximum frequency at 9.8V for input voltage 0 to 10VDC, or at 19.6mA for input current 4 to 20mA.If this characteristic is not satisfactory for your application, contact your Hitachi representative.



SPECIFICATIONS

General Specifications

Control	Control method Output frequency rac Frequency accurate Frequency resolutio V/f characteristics Speed fluctuation Acceleration/decele Starting Torque	у	Line to line sine wave pulse-width modulation (PWM) control 0.1-400.0Hz(400kW:0.1-120Hz) Digital: ±0.01% of the maximum frequency, Analog: ±0.2%(25±10°C) Digital setting: 0.01Hz, Analog setting: (Maximum frequency)/4,000 (O terminal: 12bit 0-10V, O2 terminal: 12bit -10-+10V) Vif optionally variable (30-400Hz of base frequency), Vif control (constant torque, reduced torque), Sensorless vector control, 0Hz domain sensorless vector					
Control	Frequency accurac Frequency resolution V/f characteristics Speed fluctuation Acceleration/decele	у	Digital: ±0.01% of the maximum frequency, Analog: ±0.2%(25±10°C) Digital setting: 0.01Hz, Analog setting: (Maximum frequency)/4,000 (O terminal: 12bit 0-10V, O2 terminal: 12bit -10-+10V)					
Control	Frequency resolution V/f characteristics Speed fluctuation Acceleration/decele	-	Digital setting: 0.01Hz, Analog setting: (Maximum frequency)/4,000 (O terminal: 12bit 0-10V, O2 terminal: 12bit -10-+10V)					
Control	Frequency resolution V/f characteristics Speed fluctuation Acceleration/decele	-	Digital setting: 0.01Hz, Analog setting: (Maximum frequency)/4,000 (O terminal: 12bit 0-10V, O2 terminal: 12bit -10-+10V)					
Control	Speed fluctuation Acceleration/decele		V/f optionally variable (30-400Hz of base frequency), V/f control (constant torque, reduced torque), Sensorless vector control, 0Hz domain sensorless vector					
	Acceleration/decele		control(*9), vector control (SJ-FB card option)(*9)					
	Acceleration/decele		±0.5% (sensorless vector control)					
:		eration time	0.01-3,600sec. (Linear/curve, accel./decel. selection), Two-stage accel./decel.					
	Starting Torque		SJ700 (Sensorless vector control): 200% at 0.3Hz/75 to 132kW :180% at 0.3Hz/185kW and over:150% at 0.3Hz					
	Starting Torque Carrier frequency range		L700 (Sensorless vector control): 150% at 0.5Hz/ 90kW and over:120% at 0.3Hz, SJ700 (0Hz domain with motor one frame size down):150% at around 0Hz/ 75kW and over: 130% at around 0Hz.					
		ange	SJ700: 0.5-15.0kHz(185kW and over:0.5-3.0kHz)/L700: 0.5-12.0kHz(90kW and over:0.5-8.0kHz)					
	DC braking		Performs at start: under set frequency at deceleration, via an external input (braking force, time, and operating frequency).					
	Eroguenav	Operator	Up and Down keys					
	Frequency setting	External signal*8	DC 0-10V, -10-+10V (input impedance $10k\Omega$), 4-20mA (input impedance 100Ω)					
	Setting	External port	Setting via RS485 communication					
		Operator	Start/stop commands (forward/reverse switching by parameter setting)					
	Forward /reverse		Forward-operation start/stop commands (reverse-operation start/stop possible when relevant commands are assigned to intelligent input terminals)3-wire					
	Start /stop	External signal	input possible (when relevant commands are assigned to control circuit terminals)					
		External port	Setting via RS485 communication					
		Terminals	8 terminals, NO/NC switchable, sink logic/source logic switchable					
	Intelligent input terminals	Functions	Reverse operation (RV), Multi-speed 1 setting (CF1), Multi-speed 2 setting (CF2), Multi-speed 3 setting (CF3), Multi-speed 4 setting (CF4), Jogging (JG), external DC braking (DB), 2nd motor control (SET), 2-stage acceleration/deceleration (2CH), free-run stop (FRS), external trip (EXT), unattended start protection (USP), commercial power supply switching (CS), software lock (SFT), analog input switching (AT), 3rd motor control (SET3), reset (RS), starting by 3-wire input (STA), stopping by 3-wire input (STP), forward/reverse switching by 3-wire input (F/R), PID disable (PID), PID integration reset (PIDC), control gain switching (CAS), acceleration by remote control (UP), deceleration by remote control (DWN), data clearance by remote control (UDC), forcible operation (OPE), Multi-speed bit 1 (SF1), Multi-speed bit 2 (SF2), Multi-speed bit 3 (SF3), Multi-speed bit 4 (SF4), Multi-speed bit 5 (SF5), Multi-speed bit 6 (SF6), Multi-speed bit 7 (SF7), overload restriction selection (OLR), torque limit selection (enabling/disabling) (TL), torque limit 1 (TRQ1), torque limit 2 (TRQ2), P/PI switching (PPI), braking confirmation (BOK)(*9), orientation (ORT)(*9), LAD cancellation (LAC), clearance of position deviation (PCLR)(*9), permission of 90'shift phase (STAT)(*9), trigger for frequency addition (A145) (ADD), forcible-terminal operation (F-TM), permission of torque command input (ATR)(*9), cumulative power clearance (KHC), servo-on (SON)(*9), pre-excitation (FOC)(*9), general-purpose input 1 (MI1), general-purpose input 2 (MI2), general-purpose input 3 (MI3), general-purpose input 4 (MI4), general-purpose input 5 (MI5), general-purpose input 6 (MI6), general-purpose input 7 (MI7), general-purpose input 8 (MI8), analog command holding (AHD), Multistage position settings selection 1 (CP1)(*9), Multistage position settings selection 2 (CP2)(*9), Multistage position settings selection 2 (CP2)(*9), Mu					
	Thermistor input		1 terminal (PTC characteristics)					
		Terminals	5 open-collector output terminals, NO/NC switchable, sink logic/source logic switchable 1 relay (1c-contact) output terminal: NO/NC switchable					
Juthut Signal	Intelligent output terminals	Functions	Running (RUN), constant-speed reached (FA1), set frequency overreached (FA2), overload notice advance signal (1) (OL), output deviation for PID contro (OD), alarm signal (AL), set frequency reached (FA3), over-torque (OTQ), instantaneous power failure (IP), undervoltage (UV), torque limited (TRQ), operation time over (RNT), plug-in time over (ONT), thermal alarm signal (THM), brake release (BRK)(*9), braking error (BER)(*9), OLD detection signal (2S), speed deviation maximum (DSE)(*9), positioning completed (POK)(*9), set frequency overreached 2 (FA4), set frequency reached 2 (FA5), overload notice advance signal (2) (OL2), PID feedback comparison (FBV), communication line disconnection (NDc), logical operation result 1 (LOG1), logical operation result 2 (LOG2), logical operation result 3 (LOG3), logical operation result 4 (LOG4), logical operation result 5 (LOG5), logical operation result 6 (LOG6), capacitor life warning (WAC)(*12), cooling-fan speed drop (WAF), starting contact signal (FR), heat sink overheat warning (OHF), low-current indication signal (LOC), general-purpose output 1 (M01), general-purpose output 2 (M02), general-purpose output 3 (M03), general-purpose output 4 (M04), general-purpose output 5 (M05), general-purpose output 5 (M05), invertor ready (IRDY), forward rotation (FWR), reverse rotation (FWR), major failure (MJA), window comparator O (WCO), window comparator O (WCO), window comparator O (WCO), alarm code 0 to 3 (AC0 to AC3)					
		Monitor output terminals	Analog voltage output, analog current output, pulse-string output (e.g., A-F, D-F [n-fold, pulse output only], A, T, V, P)					
Monitoring on dis	splay		Output frequency, output current, output torque, frequency conversion data, trip history, input/output terminal status, electric power, and others					
Other functions			Free V/f setting (7 breakpoints), frequency upper/lower limit, jump (center) frequency, acceleration/deceleration according to characteristic curve, manual torque boost level/breakpoint, energy-saving operation, analog meter adjustment, start frequency setting, carrier frequency adjustment, electronic thermal function (available also for free setting), external start/end frequency/frequency rate, analog input selection, retry after trip, restart after instantaneous power failure, output of various signals, starting with reduced voltage, overload restriction, initial-value setting, automatic deceleration at power failure, AVR function, fuzzy acceleration/deceleration(*9), online/offline auto-tuning, high-torque multi-motor operation(*12) (sensorless vector control of two motors by one inverter)					
Protective function	ons		Overcurrent protection, overvoltage protection, undervoltage protection, electronic thermal protection, temperature error protection, instantaneous power failure protection, phase loss input protection, braking-resistor overload protection, ground-fault current detection at power-on, USP error, external trip, emergency stop trip, CT error, communication error, option board error, and others					
Environmental	Ambient operating/ temperature(*7)/ hi		-10-50°C(*10) / -20-65°C / 20-90%RH (No condensation)					
onditions –	Location		Altitude 1,000m or less, indoors (no corrosive gases or dust)					
	Digital input expan	sion card	SJ-DG (4digits BCD, 16bits binary)					
	Feedback expansion		SJ-FB (vector control loop speed sensor)					
Options –	Network interface							
-	Others	ou. u	SJ-DN2(DeviceNet(TM)), SJ-PBT(PROFIBUS) EMI filters, input/output reactors, radio noize filters, braking resistors, braking units, LCR filter, communication cables					

- *1: The protection method conforms to JIS C 0920(IEC60529).
 *2: The applicable motor refers to Hitachi standard 3-phase motor (4-pole).
 To use other motors, be sure to prevent the rated motor current (50Hz) from exceeding the rated output current of the inverter.
- *3: The output voltage decreases as the main power supply voltage decreases except for the use of AVR function.
- *4: Braking resistor is not integrated in the inverter. Please install optional braking resistor or dynamic braking unit when large braking torque is required.
 *5: Conforms to the test method specified in JIS C 60068-2-6:2010 (IEC 60068-2-6:2007).

- *6: To operate the motor beyond 50/60Hz, please consult with the motor manufacturer about the maximum allowable rotation speed.

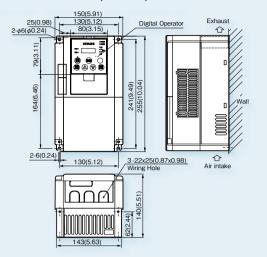
 *7: Storage temperature refers to the temperature in transportation.

 *8: The frequency command is the maximum frequency at 9.8V for input voltage 0 to 10VDC, or at 19.6mA for input current 4 to 20mA.If this characteristic is not satisfactory for your application, contact your Hitachi representative.
- *9: L700 series:The function is not provided.

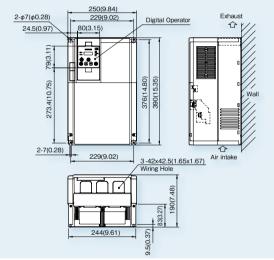
- *10: L700 series is -10 to 40°C.
 *11: Please be sure to connect DC reactor attached to 4000HF.
 *12: 1850HF,2200HF,3150HF and 4000HF: The function is not provided.

DIMENSIONS

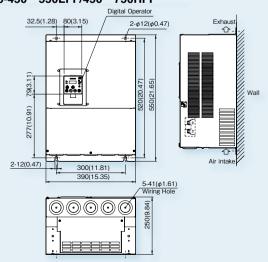
- •SJ700-004~037 LFUF2, LFF2
- *SJ700-007~040HFEF2, HFUF2, 007~037HFF2



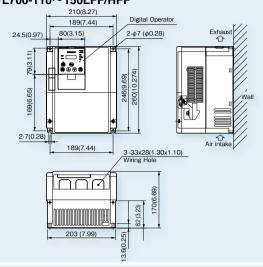
•SJ700-150~220 LFUF2,LFF2 /HFEF2, HFUF2,HFF2 •L700-185~300LFF/HFF



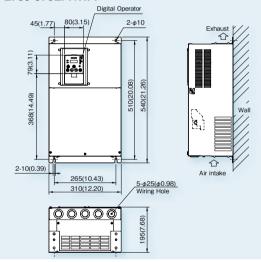
- ·SJ700-370~450 LFUF2,LFF2
- *SJ700-370~550 HFEF2, HFUF2, HFF2
- ·L700-450~550LFF/450~750HFF



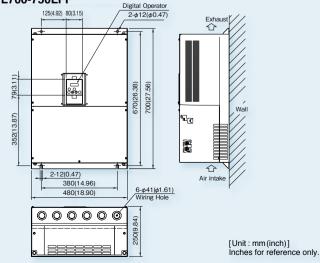
•SJ700-055~110 LFUF2,LFF2 /HFEF2, HFUF2,HFF2 •L700-110~150LFF/HFF



•SJ700-300 LFUF2,LFF2 /HFEF2, HFUF2, HFF2 •L700-370LFF/HFF



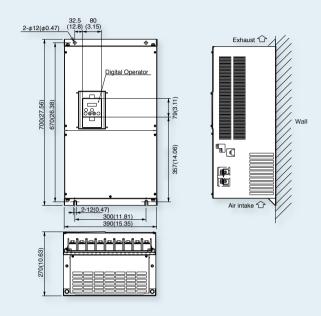
- •SJ700-550 LFUF2,LFF2
- ·L700-750LFF



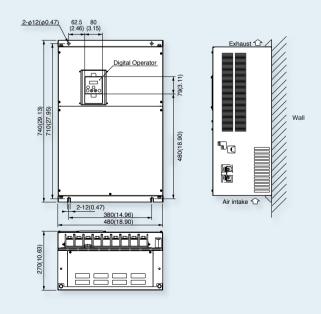
^{*} Please refer to page 26 for detailed information about compatibility with SJ300.

DIMENSIONS

- •SJ700-750, 900HFEF2, HFUF2, HFF2
- ·L700-900, 1100HFF



- •SJ700-1100HFEF2, HFUF2, HFF2 / 1320HFEF2, HFF2, 1500HFUF2
- ·L700-1320, 1600HFF



[Unit: mm(inch)] Inches for reference only.

DIMENSIONS

● SJ700-1850,2200HFEF2,HFUF2,HFF2 2-M12 Eyebolts Digital Operator 995(39.17) 965(37. 15(0.59) Air Intake 57.5(2.26) 290(11.41) 290(11.41) 695(27.36) 4-M12 Screw Holes For Eyebolts ● SJ700-3150HFEF2,HFUF2,HFF2 2-M12 Eyebolts 3-φ15(0.59) 2-M12 Screw Holes Digital Operato Vent Holes B(*1) Wall 1270(50.0) Vent Holes A(*1) 450(17.71) Air Intake 41) 290(11.41) 680(26.77) 290(11.41) 50(1.96) *1 Vent-Holes A are formed on both right and left side. Vent-Holes B are just on right side. 4-M12 Screw Holes For Eyebolts ● SJ700-4000HFEF2,HFUF2,HFF2 Attachment DC reactor(DCL-H-400) mass: about 90kg 4-φ15(0.59) 2-M16 Eyebolts 2-M16 Screw Holes 325(12.79) 4-φ10(0.39) 285(11.22) <u>™</u>-0 M10 Grounding Terminal Digital Oprator 202-φ14(0.55) 2-M8 Eyebolts 36(1.41) 430(16.92) 450(17.71)max 75(2.95) 15(0.59) 300(11.81) 300(11.81) 1050(41.33)

450(17.71) Air Intake

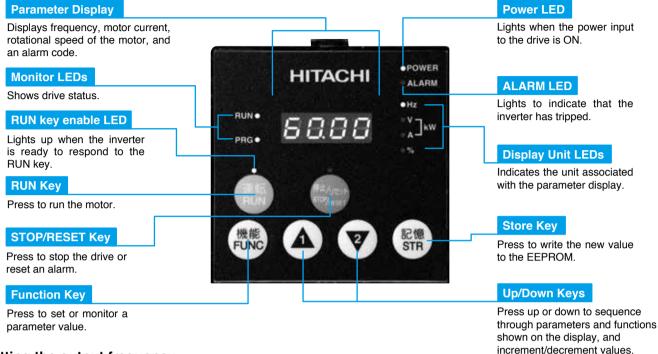
4-M16 Screw Holes For Eyebolts

15(2.95)

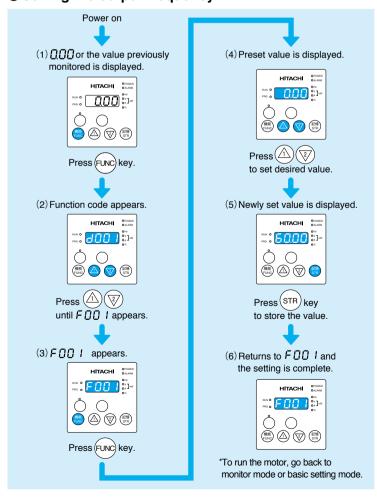
[Unit:mm(inch)] Inches for reference only.

OPERATION and PROGRAMMING

SJ700 and L700 Series can be easily operated with the digital operator provided as standard. The digital operator can also be detached and can be used for remote-control. Operator with copy function (WOP) and digital operator with potentiometer are also available as options.



Setting the output frequency



■ The contents of a basic mode display.(default)

If a desired parameter is not displayed, check the setting of function "b037" (function code display restriction). To display all parameters, specify "00" for "b037".

No.	Display code	ltem
1	d001 to d104	Monitor display
2	F001	Output frequency setting
3	F002	Acceleration (1) time setting
4	F003	Deceleration (1) time setting
5	F004	Operation direction setting
6	A001	Frequency source setting
7	A002	Run command source setting
8	A003	Base frequency setting
9	A004	Maximum frequency setting
10	A005	[AT] selection
11	A020	Multi-speed frequency setting
12	A021	Multi-speed 1 setting
13	A022	Multi-speed 2 setting
14	A023	Multi-speed 3 setting
15	A044	1st control method
16	A045	V/f gain setting
17	A085	Operation mode selection
18	b001	Selection of restart mode
19	b002	Allowable under-voltage power failure time
20	b008	Retry-after-trip selection
21	b011	Retry wait time after trip
22	b037	Function code display restriction
23	b083	Carrier frequency setting
24	b084	Initialization mode selection
25	b130	Selection of overvoltage suppression function
26	b131	Setting of overvoltage suppression level
27	C021	Setting of intelligent output terminal 11
28	C022	Setting of intelligent output terminal 12
29	C036	Alarm relay active state

TERMINALS

Main Circuit Terminals

Terminal Description

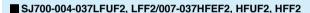
Terminal Symbol	Terminal Name	Terminal Symbol	Terminal Name
R(L1), S(L2), T(L3)	Main power supply input terminals	P(+), N(-)	External braking unit connection terminals
U(T1), V(T2), W(T3)	Inverter output terminals	⊕ (G)	Ground connection terminal
PD(+1), P(+)	DC reactor connection terminals	R ₀ (R ₀), T ₀ (T ₀)	Control power supply input terminals
P(+), RB(RB)	External braking resistor connection terminals		

Screw Diameter and **Terminal Width**

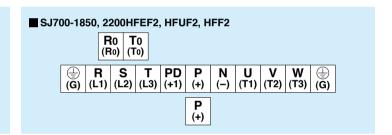


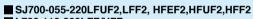
Model		Screw	Ground Screw	Terminal
SJ700	L700	diameter	diameter	width (mm)
004~037LFF2,LFUF2/007~037HFF2,HFEF2,HFUF2	-	M4	M4	13
055,075LFF2,LFUF2/HFF2,HFEF2,HFUF2	110LFF/HFF	M5	M5	18
110LFF2,LFUF2/HFF2,HFEF2,HFUF2	150LFF/HFF	M6	M6	18
150,185LFF2,LFUF2/150-300HFF2,HFEF2,HFUF2	185,220LFF/185-370HFF	M6	M6	23
220,300LFF2,LFUF2	300,370LFF	M8	M6	23
370,450LFF2,LFUF2/370-550HFF2,HFEF2,HFUF2	450,550LFF/450-750HFF	M8	M8	29
550LFF2,LFUF2	750LFF	M10	M8	40
750,900HFF2,HFEF2,HFUF2	900,1100HFF	M10	M8	29
1100HFF2,HFEF2,HFUF2/1320HFF2,HFEF2/1500HFUF2	1320,1600HFF	M10	M8	40
1850,2200HF2,HFE2,HFU2	-	M16	M12	51
3150HF2,HFE2,HFU2	-	M16	M12	45
4000HF2,HFE2,HFU2	-	M12	M12	50
RoTo terminals (All models)		M4	-	9

Terminal Arrangement

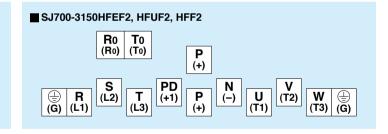




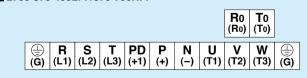


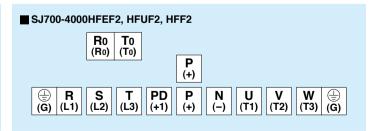




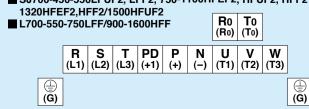








■ SJ700-450-550LFUF2, LFF2, 750-1100HFEF2, HFUF2, HFF2



TERMINALS

Control Circuit Terminals

● Terminal Description

			Symbol	Name	Explanation of Terminals	Ratings
	Pow	er Supply	L	Common Terminal for Analog Power Source	Common terminal for H, O, O2, OI, AM, and AMI. Do not ground.	-
	1 OW	я Зирріу	Н	Power Source for Frequency Setting	Power supply for frequency command input	DC 10V, 20mA max.
5	n .		0	Frequency Command Terminal	Maximum frequency is attained at DC 10V in DC 0-10V range. Set the voltage at A014 to command maximum frequency below DC 10V.	Input impedance: 10kΩ, Allowable input voltage range: DC -0.3-+12V
poledy	Freque	ncy Setting	O2	Frequency Command Extra Terminal	O2 signal is added to the frequency command of O or OI in DC 0-±10V range. By changing configuration, frequency command can be input also at O2 terminal.	Input impedance:10kΩ, Allowable input voltage range: DC 0-±12V
			OI	Frequency Command Terminal	Maximum frequency is attained at DC 20mA in DC 4-20mA range. When the intelligent terminal configured as AT is on, OI signal is enabled.	Input impedance: 100Ω, Allowable input voltage range: DC 0-24mA
			AM	Analog Output Monitor (Voltage)	Selection of one function from:	DC 0-10V, 2mA max.
	Moni	or Output	AMI	Analog Output Monitor (Current)	Output frequency, output current, torque, output voltage, input power, electronic thermal load ratio, and LAD frequency.	DC 4-20mA, 250Ω max.
	Moni	or Output	FM	Digital Monitor (Voltage)	[DC0-10V output (PWM output)] Selection of one function from: Output frequency, output current, torque, output voltage, input power, electronic thermal load ratio, and LAD frequency. [Digital pulse output (Pulse voltage DC 0/10V)] Outputs the value of output frequency as digital pulse (duty 50%)	Digital output frequency range: 0-3.6kHz, 1.2mA max.
	Pow	or Supply	P24	Power Terminal for Interface	Internal power supply for input terminals. In the case of source type logic, common terminal for contact input terminals.	DC 24V, 100mA max.
	POW	er Supply	CM1	Common Terminal for Interface	Common terminal for P24, TH, and FM. In the case of sink type logic, common terminal for contact input terminals. Do not ground.	-
		Run Command	FW	Forward Command Input	The motor runs forward when FW terminal is ON, and stops when FW is OFF.	
letini (Contact Input	Functions	1 2 3 4 5 6 7	Intelligent Input Terminals	Assign 8 functions to terminals. (Refer to the standard specifications for the functions.)	[Input ON condition] Voltage between each terminal and PLC: DC 18V min. [Input OFF condition] Voltage between each terminal and PLC: DC 3V max. Input impedance between each
		Common Terminal	8 PLC	Common Terminal for Intelligent Input Terminals, Common Terminal for External Power Supply for PLCs, etc.	Select sink or source logic with the short-circuit bar on the control terminals. Sink logic: Short P24 to PLC / Source logic: Short CM1 to PLC. When applying external power source, remove the short-circuit bar and connect PLC terminal to the external device.	terminal and PLC: 4.7Ω Allowable maximum voltage between each terminal and PLC: DC 27V
	Open Collector Output	State	11 12 13 14 15	Intelligent Output Terminals	Assign 5 functions to open collector outputs. When the alarm code is selected at C062, terminal 11-13 or 11-14 are reserved for error codes of inverter trip. (Refer to the standard specifications for the functions.) Both sink and source logic are always applicable between each terminal and CM1.	Decrease in voltage between each terminal and CM2: 4V max. during ON Allowable maximum voltage: DC 27V
			CM2	Common Terminal for Intelligent Output Terminals	Common terminal for intelligent output terminal 11-15.	Allowable maximum current: 50mA
poleny	Analog Input	Sensor	ТН	Thermistor Input Terminals	The inverter trips when the external thermistor detects abnormal temperature. Common terminal is CM1. [Recommended thermistor characteristics] Allowable rated power: 100mW or over. Impedance in the case of abnormal temperature: $3k\Omega$ Note: Thermal protection level can be set between 0 and 9999Ω .	Allowable input voltage range DC0-8V [Input Circuit] DC8V 10kΩ TH TH Thermistor CM1 Thermistor
IctiviC	Relay Output	State/ Alarm	AL0 AL1 AL2	Alarm Output Terminals	In default setting, an alarm is activated when inverter output is turned off by a protective function.	Maximum capacity of relays AL1-AL0: AC 250V, 2A(R load)/0.2A(L load) DC 30V, 8A(R load)/0.6A(L load) AL2-AL0: AC 250V, 1A(R load)/0.2A(L load) DC 30V, 1A(R load)/0.2A(L load) Minimum capacity of relays AL1-AL0, AL2-AL0: AC100V, 10mA DC5V, 100mA

■ Terminal Arrangement



FUNCTION LIST

MONITORING FUNCTIONS and MAIN PROFILE PARAMETERS

[O= Allowed X= Not permitted]

C	Code	Function Name	Monitored data or setting		Default Setting SJ700 -FE(CE) -FU(UL) -F(JP)		L700	Setting during operation (allowed or not)	Change during operation (allowed or not)
						-F(JP)			
	d001	Output frequency monitor	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	-	-	-	-	0	-
	d002	Output current monitor	0.0 to 999.9, 1000 to 9999 (A)	-	-	-	-	-	-
	d003	Rotation direction minitoring	F (forward rotation), o (stopped), r (reverse rotation)	-	-	-	-	-	-
	d004	Process variable (PV), PID feedback monitor	0.00 to 99.99, 100.0 to 999.9, 1000. to 9999. 1000 to 9999 (10000 to 99990), \(\text{100 to } \(\tex	-	-	-	-	-	-
	d005	Intelligent input terminal status	FW ON (Example) FW, 7, 2, 1 : ON	-	-	-	-	-	-
	d006	Intelligent output terminal status	ON (Example) 12, 11 : ON	-	-	-	-	•	-
	d007	Scaled output frequency monitoring	0.00 to 99.99, 100.0 to 999.9, 1000. to 9999., 1000 to 3996 (10000 to 39960)	-	-	-	-	0	-
	d008	Actual-frequency monitoring	-400. to -100., -99.9 to 0.00 to 99.99, 100.0 to 400.0 (Hz) (*2)	-	-	-	×	-	-
	d009	Torque command monitoring	0. to +200. (%)	-	-	-	×	-	-
	d010	Torque bias monitoring	-200. to +200. (%)	-	-	-	×		-
	d012	Torque monitoring	-200. to +200. (%)	-	-	-	-	-	-
	d013	Output voltage monitoring	0.0 to 600.0 (V)	-	-	-	-		-
	d014	Power monitoring	0.0 to 999.9 (kW)	-	-	-	-		-
4.	d015	Cumulative power monitoring	0.0 to 999.9, 1000. to 9999.,1000 to 9999 (10000 to 99990), \[\text{100 to } \[\] 999 (100000 to 999000)	-	-	-	_	_	_
ğ	d016	Cumulative operation RUN time monitoring	0. to 9999., 1000 to 9999 (10000 to 99990), [100 to [999 (10000 to 999000) (hr)	-	_	_	_		_
ĭ	d010	Cumulative operation from time monitoring	0. to 9999., 1000 to 9999 (10000 to 99990), \[100 to \[999 (10000 to 99900) \] (iii)	-	-		-	-	_
Monitor Mode	d017	Heat sink temperature monitoring	-020. to 200.0 (°C)	_	_	_	-		
Ξ	d019	Motor temperature monitoring		-	-	-		-	-
Ĭ	d022	Life-check monitoring	-020. to 200.0 (°C)	-	-	-	-	-	-
	d023	Program counter	0 to 1024	-	-	-	-	-	-
	d024	Program number monitoring	0000 to 9999	-	-	-	-	-	-
	d025	User monitor 0	-2147483647 to 2147483647 (upper 4 digits including "-")	-	-	-	-	-	-
	d026	User monitor 1	-2147483647 to 2147483647 (upper 4 digits including "-")	-	-	-	-		-
	d027	User monitor 2	-2147483647 to 2147483647 (upper 4 digits including "-")	-	-	-	-		-
	d028	Pulse counter	0 to 2147483647 (upper 4 digits)	-	-	-	_		-
	d029	Position setting monitor	-1073741823 to 1073741823 (upper 4 digits including "-")	-	-	-	X	_	-
	d030	Position feedback monitor	-1073741823 to 1073741823 (upper 4 digits including "-")	-	-	-	×	-	-
	d080	Trip Counter		-	_	-	-	-	
	d080	Trip Counter	0. to 9999., 1000 to 6553 (10000 to 65530) (times)	_		_			_
	d086	Trip monitoring 1-6	Factor, frequency (Hz), current (A), voltage across P-N (V),						
			running time (hours), power-on time (hours)	-	-	-	-	-	-
	d090	Programming error monitoring	Warning code	-	-	-	-	-	-
	d102	DC voltage monitoring	0.0 to 999.9 (V)	-				-	-
	d103	BRD load factor monitoring	0.0 to 100.0 (%)		-	-	-	-	-
	d104	Electronic thermal overload monitoring	0.0 to 100.0 (%)	-	-	-	-	-	-
	F001	Output frequency setting	0.0, "start frequency" to "maximum frequency" (or maximum frequency, 2nd/3rd motors) (Hz) 0.0 to 100.0 (when PID function is enabled)	0.00	0.00	0.00	0.00	0	0
ge	F002	Acceleration (1) time setting	0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s)	30.00	30.00	30.00	30.00	0	0
Setting Mode	F202	Acceleration (1) time setting, 2nd motor	0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s)	30.00	30.00	30.00	30.00	0	O
Б	F302	Acceleration (1) time setting, 3rd motor	0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s)	30.00		30.00	30.00	0	0
慧	F003	Deceleration (1) time setting	0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s)	30.00	30.00	30.00	30.00	0	0
Š	F203	Deceleration time setting, 2nd motor	0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s)	30.00	30.00	30.00	30.00	0	0
	F303	Deceleration time setting, 3rd motor	0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s)	30.00	30.00	30.00	30.00	0	0
	F004	Keypad Run key routing	00 (forward rotation), 01 (reverse rotation)	00	00	00	00	×	×
-G	A	A Group: Standard functions		•					
ğ	b	b Group: Fine tuning functions							
Ŧ	C	C Group: Intelligent terminal functions							
<u>eq</u>	H	H Group: Motor constants functions							
and	P	P Group: Expansion card functions							
Expanded Function	U	U Group: User-selectable menu functions							
			000HF: -120, to -100, -99.9 to 0.00 to 99.99, 100.0 to 120.0(Hz)						

^{(*1) 4000}HF:0.00 to 99.99, 100.0 to 120.0(Hz) (*2)4000HF: -120. to -100. -99.9 to 0.00 to 99.99, 100.0 to 120.0(Hz)

• A GROUP: STANDARD FUNCTIONS

[O= Allowed X= Not permitted]

				C	efault	Setting	1	Settina	Change
	Code	Function Name	Monitored data or setting		SJ700		1 700	during operation	during operation (allowed or not)
				-FE(CE)	-FU(UL)	-F(JP)	L/00	(allowed or not)	(allowed or not)
<u>s</u>	A001	Frequency source setting	00 (keypad potentiometer) (*1), 01 (control circuit terminal block), 02 (digital operator), 03 (RS485), 04 (option 1), 05 (option 2), 06 (pulse-string input), 07 (easy sequence), 10 (operation function result)	01	01	02	02	×	×
settings	A002	Run command source setting	01 (control circuit terminal block), 02 (digital operator), 03 (RS485), 04 (option 1), 05 (option 2)	01	01	02	02	×	×
ett	A003	Base frequency setting	30. to "maximum frequency " (Hz)	50.	60.	60.	60.	×	×
	A203	Base frequency setting, 2nd motor	30. to "maximum frequency, 2nd motor" (Hz)	50.	60.	60.	60.	×	×
asic	A303	Base frequency setting, 3rd motor	30. to "maximum frequency, 3rd motor" (Hz)	50.	60.	60.	60.	×	×
В	A004	Maximum frequency setting	30. to 400. (Hz) (*2)	50.	60.	60.	60.	×	×
	A204	Maximum frequency setting, 2nd motor	30. to 400. (Hz) (*2)	50.	60.	60.	60.	×	×
	A304	Maximum frequency setting, 3rd motor	30. to 400. (Hz) (*2)	50.	60.	60.	60.	×	×
Analog input and others	A005	[AT] selection	00 (switching between O and OI terminals), 01 (switching between O and O2 terminals), 02 (switching between O terminal and keypad potentiometer) (*1), 03 (switching between OI terminal and keypad potentiometer) (*1), 04 (switching between O2 and keypad potentiometer) (*1)	00	00	00	00	×	×
Anak	A006	[O2] selection	00 (single), 01 (auxiliary frequency input via O and OI terminals) (nonreversible), 02 (auxiliary frequency input via O and OI terminals) (reversible), 03 (disabling O2 terminal)	03	03	03	03	×	×

^(*1) This setting is valid only when the OPE-SR is connected. (*2)4000HF: 30. to 400. (Hz)

				[O= Allowed ×= Not		t permitted.			
						Setting		Setting	Change
С	ode	Function Name	Monitored data or setting		SJ700		L700	during operation (allowed or not)	during operation (allowed or not)
					-FU(UL)	-F(JP)			
ners	A011	O-L input active range start frequency	0.00 to 99.99, 100.0 to 400.0 (Hz) (*2)	0.00	0.00	0.00	0.00	×	<u> </u>
do	A012	O-L input active range end frequency O-L input active range start voltabe	0.00 to 99.99, 100.0 to 400.0 (Hz) (*2) 0. to "[O]-[L] input active range end voltage" (%)	0.00	0.00	0.00	0.00	×	0
t a	A013 A014	O-L input active range end voltabe	"[O]-[L] input active range end voltage (%)	100.	100.	100.	100.	×	ŏ
Analog input and others	A015	O-L input active range start frequency selection	00 (external start frequency), 01 (0 Hz)	01	01	01	01	×	ŏ
go	A016	External frequency filter time constant	1. to 30. or 31. (500 ms filter ±0.1 Hz with hysteresis)	31.	31.	31.	31.	×	ŏ
Ang	A017	Easy sequence function selection	00 (disabling), 01 (enabling)	00	00	00	00	×	×
Б	A019	Multispeed operation selection	00 (binary: 16 speeds selectable with 4 terminals), 01 (bit: 8 speeds selectable with 7 terminals)	00	00	00	00	×	×
ggi	A020	Multispeed frequency setting	0.0 or "start frequency" to "maximum frequency" (Hz)	0.00	0.00	0.00	0.00	0	0
웃	A220	Multispeed frequency setting, 2nd motor	0.0 or "start frequency" to "maximum frequency, 2nd motor" (Hz)	0.00	0.00	0.00	0.00	0	0
a	A320	Multispeed frequency setting, 3rd motor	0.0 or "start frequency" to "maximum frequency, 3rd motor" (Hz)	0.00	0.00	0.00	0.00	0	0
ioi	A021	Multispeed 1-15 setting	0.0 or "start frequency" to "n-th maximum frequency" (Hz)	0.00	0.00	0.00	0.00	0	0
erat	A035	, ,							
용	A038	Jog frequency setting	"Start frequency" to 9.99 (Hz)	1.00	1.00	1.00	1.00	0	0
Multispeed operation and Jogging	A039	Jog stop mode	00 (free-running after jogging stops [disabled during operation]), 01 (deceleration and stop after jogging stops [disabled during operation]), 02 (DC braking after jogging stops [disabled during operation]), 03 (free-running after jogging stops [enabled during operation]), 04 (deceleration and stop after jogging stops [enabled during operation]), 05 (DC braking after jogging stops [enabled during operation])	00	00	00	00	×	0
	A041	Torque boost method selection	00(Manual torque boost) / 01(Automatic torque boost)	00	00	00	00	×	×
	A241	Torque boost method selection, 2nd motor	00(Manual torque boost) / 01(Automatic torque boost)	00	00	00	00	×	×
	A042	Manual torque boost value	0.0 to 20.0 (%)	1.0	1.0	1.0	1.0	0	0
	A242	Manual torque boost value, 2nd motor	0.0 to 20.0 (%)	1.0	1.0	1.0	1.0	0	0
	A342	Manual torque boost value, 3rd motor	0.0 to 20.0 (%)	1.0	1.0	1.0	1.0	0	0
	A043	Manual torque boost frequency adjustment	0.0 to 50.0 (%)	5.0	5.0	5.0	5.0	0	0
	A243	Manual torque boost frequency adjustment, 2nd motor	0.0 to 50.0 (%)	5.0	5.0	5.0	5.0	0	0
St.	A343	Manual torque boost frequency adjustment, 3rd motor	0.0 to 50.0 (%)	5.0	5.0	5.0	5.0	0	0
V/f Characteristic	A044	V/F characteristic curve selection, 1st motor	00 (VC), 01 (VP), 02 (free V/f), 03 (sensorless vector control), 04 (0Hz-range sensorless vector)(*1), 05 (vector with sensor)(*1)	00	00	00	00	×	×
ara(A244	V/F characteristic curve selection, 2nd motor	00 (VC), 01 (VP), 02 (free V/f), 03 (sensorless vector control), 04 (0Hz-range sensorless vector)(*1)	00	00	00	00	×	×
3	A344	V/F characteristic curve selection, 3rd motor	00(VC), 01(VP)	00	00	00	00	×	×
¥.	A045	V/f gain setting	20. to 100. (%)	100.	100.	100.	100.	0	0
>	A046	Voltage compensation gain setting	0. to 255.	100.	100.	100.	100.	0	0
	7040	for automatic torque boost. 1st motor	0. 10 233.	100.	100.	100.	100.		
	A246	Voltage compensation gain setting	0. to 255.	100.	100.	100.	100.	0	0
		for automatic torque boost, 2nd motor					<u> </u>		
	A047	Slippage compensation gain setting for automatic torque boost, 1st motor	0. to 255.	100.	100.	100.	100.	0	0
	A247	Slippage compensation gain setting	0. to 255.	100.	100.	100.	100.	0	0
	A247	for automatic torque boost, 2nd motor	0. 10 233.	100.	100.	100.	100.		
	A051	DC braking enable	00 (disabling), 01 (enabling), 02 (set frequency only)	00	00	00	00	×	0
	A052	DC braking frequency setting	0.00 to 99.99, 100.0 to 400.0 (Hz) (*2)	0.50	0.50	0.50	0.50	×	0
	A053	DC braking wait time	0.0 to 5.0 (s)	0.0	0.0	0.0	0.0	×	0
g	A054	DC braking force during deceleration	SJ700: 0. to 100. (%) <75 to 132kW:0. to 80./185kW and over:0. to 35.> L700: 0. to 70. (%) <90kW and over:0. to 50.>	0	0	0	20.0	×	0
臺	A055	DC braking time for deceleration	0.0 to 60.0 (s)	0.0	0.0	0.0	0.5	×	0
DC Braking	A056	DC braking time for deceleration DC braking/edge or level detection for [DB] input	00 (edge operation), 01 (level operation)	0.0	0.0	0.0	0.5	×	0
ပ္က	A030	DC braking/edge or level detection for [DB] input	SJ700: 0. to 100. (%) <75 to 132kW:0. to 80./185kW and over:0. to 35.>						
	A057	DC braking force for starting	L700: 0. to 70. (%) <90kW and over:0. to 50.>	0.	0.	0.	0.	×	0
	A058	DC braking time for starting	0.0 to 60.0(s)	0.0	0.0	0.0	0.0		0
								l X I	
	A059	DC braking carrier frequency setting	SJ/UU; U.S tO 15.U(kHz) 5 tO 132kW;U.S tO 1U.U/185kW and over:U.S to 3.U					×	
5	A004	Do braining carrier inequestry country	SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0>	5.0	5.0	5.0	3.0	×	×
	A061	Frequency upper limit setting		5.0	5.0 0.00	5.0			×
lag.	A261		L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0>				3.0	×	
o Frequen		Frequency upper limit setting	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz)	0.00	0.00	0.00	3.0	×	0
Jump Frequen	A261	Frequency upper limit setting Frequency upper limit setting, 2nd motor	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz)	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3.0 0.00 0.00 0.00 0.00	× × × × × ×	0 0 0
and Jump Frequen	A261 A062 A262 A063	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2)	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	3.0 0.00 0.00 0.00 0.00 0.00	× × × × × × ×	0 0 0 0
Limit and Jump Frequen	A261 A062 A262 A063 A064	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) (*2) 0.00 to 10.00 (Hz)	0.00 0.00 0.00 0.00 0.00 0.50	0.00 0.00 0.00 0.00 0.00 0.50	0.00 0.00 0.00 0.00 0.00 0.50	3.0 0.00 0.00 0.00 0.00 0.00 0.50	× × × × × × ×	0 0 0 0 0
ower Limit and Jump Frequen	A261 A062 A262 A063 A064 A065	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2)	0.00 0.00 0.00 0.00 0.00 0.50 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00	3.0 0.00 0.00 0.00 0.00 0.00 0.50 0.00	x x x x x x	0 0 0 0 0 0 0
per/Lower Limit and Jump Frequen	A261 A062 A262 A063 A064 A065 A066	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (hysteresis) frequency width setting 2	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz)	0.00 0.00 0.00 0.00 0.00 0.50 0.50	0.00 0.00 0.00 0.00 0.00 0.50 0.50	0.00 0.00 0.00 0.00 0.00 0.50 0.50	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50	x x x x x x x	0 0 0 0 0 0 0 0 0 0
Upper/Lower Limit and Jump Frequen	A261 A062 A262 A063 A064 A065 A066 A067	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 3	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2)	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.50	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.50	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.50	3.0 0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00	x x x x x x x x	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ency Upper/Lower Limit and Jump Frequen	A261 A062 A262 A063 A064 A065 A066 A067 A068	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50	3.0 0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50	× × × × × × × × × × × ×	0 0 0 0 0 0 0 0 0 0 0 0 0
Fequency Upper/Lower Limit and Jump Frequen	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00	× × × × × × × × × × × × × × × × × × ×	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Frequency Upper/Lower Limit and Jump Frequency	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (enter) frequency setting 2 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2)	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00	3.0 0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50	× × × × × × × × × × × × × × × × ×	
Frequency Upper/Lower Limit and Jump Frequen	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 60.0 (s) 00 (disabling), 01 (enabling), 02 (enabling inverted-data output)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00 0.50 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50	3.0 0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00	× × × × × × × × × × × × × × × × × × ×	
	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070 A071	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.01 to 80.0 (s) 00 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.10	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.00 0.10	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50	× × × × × × × × × × × × × × × × × × ×	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070 A071 A072 A073	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 60.0 (s) 0 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.0 to 99.99, 100.0 to 3600.0 (s)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.10 1.0	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.10 0.00	x x x x x x x x x x x x x x x x x x x	
	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070 A071	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.01 to 80.0 (s) 00 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.10 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.10 1.0	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50	× × × × × × × × × × × × × × × × × × ×	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Control	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070 A071 A072 A073 A074	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 69.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 60.0 (s) 0.0 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.0 to 99.99, 100.0 to 3600.0 (s) 0.01 to 99.99, 100.0 (s) 0.01 to 99.99 00 (input via OI), 01 (input via O), 02 (external communication),	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.10 1.0	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.00 0.00 0.00	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50	x x x x x x x x x x	
	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070 A071 A072 A073 A074 A075	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (prequency setting 2 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 3 Jump (center) frequency setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain PV scale conversion PV source setting	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 60.0 (s) 00 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.0 to 99.99, 100.0 to 3600.0 (s) 0.01 to 99.99 00 (input via OI), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.00 0.00 1.0 1.	0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 0.00 0.00 1.0 1.0 0.00	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.10 0.00 0	x x x x x x x x x x x x x x x x x x x	
Control	A261 A062 A262 A063 A064 A065 A066 A067 A068 A070 A071 A072 A073 A074 A075 A076	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 60.0 (s) 00 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.0 to 99.99, 100.0 to 3600.0 (s) 0.01 to 99.99 00 (input via Ol), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 0.00 0.00	0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 1.0 1.0 1.00 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 1.00 0.00	3.0 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0	x x x x x x x x x x x x x x x x x x x	
PID Control	A261 A062 A262 A063 A064 A065 A066 A067 A068 A070 A071 A072 A073 A074 A075 A076	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (center) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation PID variation range	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.01 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.01 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.01 to 99.99, 100.0 to 3600.0 (S) 0.01 to 99.99, 100.0 to 3600.0 (S) 0.01 to 99.99, 100.0 (S) 0.01 to 99.99 00 (input via OI), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output) 0.00 to 100.0 (%)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 1.0 1.0 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.00 1.0 1.0 0.00 0.	3.0 0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00 0.1.0 1.0 0.00 0.00 0.00	x x x x x x x x x x x x x x x x x x x	
PID Control	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070 A071 A072 A073 A074 A075 A076 A077 A078 A078	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (nysteresis) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (center) frequency setting 3 Jump (center) frequency setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation PID variation range AVR function select	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.0 to 60.0 (s) 0.0 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.0 to 99.99, 100.0 to 3600.0 (s) 0.00 to 99.99, 100.0 to 3600.0 (s) 0.00 to 99.99, 100.0 (s) 0.01 to 99.99 00 (input via Ol), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output) 0.(OFF), 01 (ON) 0. to 100.0 (%) 00 (always on), 01 (always off), 02 (off during deceleration)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.10 1.0 1.0 0.00 0.	0.00 0.00 0.00 0.00 0.50 0.50 0.50 0.50 0.00 0.50 0.00 0.00 1.0 0.00 1.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00 0.10 1.0 1.0 0.00 0.	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0	x x x x x x x x x x x x x x x x x x x	
AVR PID Control	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070 A071 A072 A073 A074 A075 A076 A077 A078 A081 A082	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (penter) frequency setting 2 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation PID variation range AVR function select AVR voltage select	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 60.0 (s) 00 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.0 to 99.99, 1000. to 3600.0 (s) 0.0 to 99.99, 1000. to 3600.0 (s) 0.01 to 99.99, 100.0 (s) 0.01 to 99.99 00 (input via Ol), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output) 00(OFF), 01 (ON) 0.0 to 100.0 (%) 00 (always on), 01 (always off), 02 (off during deceleration) 200 V class: 200, 215, 220, 230, 240 (V) 400 V class: 380, 400, 415, 440, 460, 480 (V)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.10 1.0 1.0 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00 0.10 1.0 1.0 0.00 0.	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0	x x x x x x x x x x x x x x x x x x x	0 0 0 0 0 0 0 0 0 0 0 0
AVR PID Control	A261 A062 A262 A063 A064 A065 A066 A067 A070 A071 A072 A073 A074 A075 A076 A077 A078 A082 A085	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (posteresis) frequency width setting 1 Jump (posteresis) frequency width setting 2 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation PID variation range AVR function select AVR voltage select Operation mode selection	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.0 to 60.0 (s) 0.0 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.0 to 99.99, 100.0 to 3600.0 (s) 0.00 to 99.99, 100.0 to 3600.0 (s) 0.00 to 99.99, 100.0 (s) 0.01 to 99.99 00 (input via Ol), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output) 0.(OFF), 01 (ON) 0. to 100.0 (%) 00 (always on), 01 (always off), 02 (off during deceleration)	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00 0.00 1.0 0.00 1.00 0	0.00 0.00 0.00 0.00 0.50 0.50 0.50 0.50 0.00 0.50 0.00 0.00 1.0 0.00 1.00 0	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00 0.00 1.0 0.00 1.00 0	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0	x x x x x x x x x x x x x x x x x x x	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AVR PID Control	A261 A062 A262 A063 A064 A065 A066 A067 A068 A069 A070 A071 A072 A073 A074 A075 A076 A077 A078 A081 A082	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting 4 Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation PID variation range AVR function select AVR voltage select Operation mode selection Energy saving mode tuning	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 60.0 (s) 0.0 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.00 to 99.99, 100.0 to 3600.0 (s) 0.01 to 99.99, 100.0 (s) 0.01 to 99.99 00 (input via OI), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output) 00(CFF), 01 (ON) 0.0 to 100.0 (%) 00 (always on), 01 (always off), 02 (off during deceleration) 200 V class: 200, 215, 220, 230, 240 (V) 400 V class: 380, 400, 415, 440, 460, 480 (V) 00(Normal operation)/01(Energy-saving operation)/02(Fuzzy operation)(*1)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 1.0 1.0 1.00 00 00 00 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.00 0.00 1.0 1.0 1.00 00 00 00 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.00 0.00 1.0 1.0 1.00 00 00 00 00 00 00 00 00 00	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.00 1.0 1.0 1.00 0.0	x x x x x x x x x x x x x x x x x x x	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AVR PID Control	A261 A062 A262 A063 A064 A065 A066 A067 A070 A071 A072 A073 A074 A075 A076 A077 A078 A081 A085 A086	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency width setting 1 Jump (posteresis) frequency width setting 1 Jump (posteresis) frequency width setting 2 Jump (hysteresis) frequency width setting 2 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation PID variation range AVR function select AVR voltage select Operation mode selection	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.0 to 99.99, 100.0 to 3600.0 (s) 0.0 to 99.99, 100.0 to 3600.0 (s) 0.0 to 99.99, 100.0 to 3600.0 (s) 0.01 to 99.99 00 (input via Ol), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output) 00(OFF), 01 (ON) 0.0 to 100.0 (%) 00 (always on), 01 (always off), 02 (off during deceleration) 20 V class: 200, 215, 220, 230, 240 (V) 400 V class: 380, 400, 415, 440, 460, 480 (V) 00(Normal operation)/ 01(Energy-saving operation)/ 02(Fuzzy operation)(*1)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 1.00 00 00 00 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 1.00 00 00 00 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 1.00 00 00 00 00 00 00 00 00 00	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.	x x x x x x x x x x x x x x x x x x x	0 0 0 0 0 0 0 0 0 0 0 0 0 0
and acceleration AVR PID Control	A261 A062 A262 A063 A064 A065 A066 A067 A070 A071 A072 A073 A074 A075 A076 A077 A078 A081 A082 A086 A086 A086 A086 A089	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (hysteresis) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation PID variation range AVR function select AVR voltage select Operation mode selection Energy saving mode tuning Acceleration (2) time setting	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.0 to 60.0 (s) 00 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.0 to 99.99, 100.0 to 3600.0 (s) 0.0 to 99.99, 100.0 to 3600.0 (s) 0.01 to 99.99 00 (input via OI), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output) 00(OFF), 01 (ON) 0.0 to 100.0 (%) 00 (always on), 01 (always off), 02 (off during deceleration) 200 V class: 200, 215, 220, 230, 240 (V) 400 V class: 380, 400, 415, 440, 460, 480 (V) 00(Normal operation)/ 01(Energy-saving operation)/ 02(Fuzzy operation)("1) 0.1 to 100.0 0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0	3.0 0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 0.00 0.	x x x x x x x x x x x x x x x x x x x	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
and acceleration/ AVR PID Control	A261 A062 A262 A063 A066 A066 A067 A068 A069 A070 A071 A072 A073 A074 A075 A076 A077 A078 A081 A082 A086 A089 A080 A080 A080 A080 A080 A080 A080	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (nysteresis) frequency setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (center) frequency setting 3 Jump (center) frequency setting 3 Acceleration stop time frequency setting 3 Acceleration stop time frequency setting PID function enable PID proportional gain PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation PID variation range AVR function select AVR voltage select Operation mode selection Energy saving mode tuning Acceleration (2) time setting, 2nd motor	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.01 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.01 to 99.99, 100.0 to 3600.0 (s) 0.01 to 99.99, 100.0 to 3600.0 (s) 0.01 to 99.99, 100.0 to 3600.0 (s) 0.01 to 99.99 00 (input via Ol), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output) 00(OFF), 01 (ON) 0.0 to 100.0 (%) 00 (always on), 01 (always off), 02 (off during deceleration) 200 V class: 200, 215, 220, 230, 240 (V) 400 V class: 380, 400, 415, 440, 460, 480 (V) 00(Normal operation)/ 01(Energy-saving operation)/ 02(Fuzzy operation)(*1) 0.1 to 100.0 0.01 to 99.99, 100.0 to 99.9, 100.0 to 3600. (s) 0.01 to 99.99, 100.0 to 99.9, 100.0 to 3600. (s)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 00 00 00 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.00 1.0 1.0 0.00 0.0 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.00 1.0 1.0 00 00 00 00 00 15.00 15.00	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.1.0 0.00 1.00 0.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 0.00 1.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 1.00	x x x x x x x x x x x x x x x x x x x	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AVR PID Control	A261 A062 A262 A063 A064 A065 A066 A067 A068 A071 A072 A073 A074 A075 A076 A077 A078 A081 A082 A085 A085 A0892 A392	Frequency upper limit setting Frequency upper limit setting, 2nd motor Frequency lower limit setting, 2nd motor Jump (center) frequency setting 1 Jump (nysteresis) frequency width setting 2 Jump (pysteresis) frequency width setting 2 Jump (center) frequency setting 2 Jump (center) frequency setting 3 Jump (center) frequency setting 3 Jump (hysteresis) frequency width setting 3 Acceleration stop time frequency setting Acceleration stop time frequency setting PID function enable PID proportional gain PID integral time constant PID derivative gain PV scale conversion PV source setting Output of inverted PID deviation PID variation range AVR function select AVR voltage select Operation mode selection Energy saving mode tuning Acceleration (2) time setting, 2nd motor Acceleration (2) time setting, 3rd motor	L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0> 0.00 or "1st minimum frequency limit" to "maximum frequency" (Hz) 0.00 or "2nd minimum frequency limit" to "maximum frequency, 2nd motor" (Hz) 0.00 or "start frequency" to "maximum frequency limit" (Hz) 0.00 or "start frequency" to "maximum frequency, 2nd motor limit" (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 10.00 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.00 to 60.0 (Hz) 0.00 to 99.99, 100.0 to 400.0 (Hz) ("2) 0.0 to 60.0 (s) 0.0 (disabling), 01 (enabling), 02 (enabling inverted-data output) 0.2 to 5.0 0.0 (disabling), 01 (input via O), 02 (external communication), 03 (pulse-string frequency input), 10 (operation result output) 0.0(OFF), 01 (ON) 0.0 to 100.0 (%) 00 (always on), 01 (always off), 02 (off during deceleration) 200 V class: 200, 215, 220, 230, 240 (V) 400 V class: 380, 400, 415, 440, 460, 480 (V) 00(Normal operation)/ 01(Energy-saving operation)/ 02(Fuzzy operation)("1) 0.1 to 100.0 0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s) 0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s)	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.1.0 1.0 0.00 0.0 0.0 0.0	0.00 0.00 0.00 0.00 0.00 0.50 0.50 0.00 0.50 0.00 0.10 1.0 0.00 1.00 00 230/400 00 50.0 15.00 15.00	0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 1.0 1.0 00 00 00 00 00 00 00 00 1.00 00 1.00 00 00 00 00 00 00 00 00 00	3.0 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.1.0 0.00 1.00 0.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 0.00 1.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 1.00	x x x x x x x x x x x x x x x x x x x	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

									5W00 - 1-140	r permitted]
					[Default	Setting	i	Setting	Change
	Co	ode	Function Name	Monitored data or setting		SJ700		L700	during operation	during operation (allowed or not)
					-FE(CE)	-FU(UL)	-F(JP)	L/00	(allowed or not)	(allowed or flot)
		A094	Select method to switch to Acc2/Dec2 profile	00 (switching by 2CH terminal), 01 (switching by setting), 02 (switching only when rotation is reversed)	00	00	00	00	×	×
		A294	Select method to switch to Acc2/Dec2, 2nd motor	00 (switching by 2CH terminal), 01 (switching by setting), 02 (switching only when rotation is reversed)	00	00	00	00	×	×
1	<u> </u>	A095	Acc1 to Acc2 frequency transition point	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	0.00	0.00	0.00	0.00	×	×
-	ĬΓ	A295	Acc1 to Acc2 frequency transition point, 2nd motor	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	0.00	0.00	0.00	0.00	×	×
3	3 [A096	Dec1 to Dec2 frequency transition point	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	0.00	0.00	0.00	0.00	×	×
7	adjustiment	A296	Dec1 to Dec2 frequency transition point, 2nd motor	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	0.00	0.00	0.00	0.00	×	×
		A097	Acceleration curve selection	00 (linear), 01 (S curve), 02 (U curve), 03 (inverted-U curve), 04 (EL-S curve)	00	00	00	00	×	×
9	External nequency	A098	Deceleration curve selection	00 (linear), 01 (S curve), 02 (U curve), 03 (inverted-U curve), 04 (EL-S curve)	00	00	00	00	×	×
		A101	OI-L input active range start frequency	0.00 to 99.99, 100.0 to 400.0 (Hz)	0.00	0.00	0.00	0.00	×	×
3	₽Г	A102	OI-L input active range end frequency	0.00 to 99.99, 100.0 to 400.0 (Hz)	0.00	0.00	0.00	0.00	×	0
3	₫	A103	OI-L input active range start current	0. to "[OI]-[L] input active range end current" (%)	20.	20.	20.	20.	×	0
3	5	A104	OI-L input active range end current	"[OI]-[L] input active range start current" to 100. (%)	100.	100.	100.	100.	×	0
1	ĭ	A105	OI-L input start frequency enable	00 (external start frequency), 1 (0 Hz)	00	00	00	00	×	0
	Г	A111	O2-L input active range start frequency	-400. to -100., -99.9 to 0.00 to 99.99, 100.0 to 400.0 (Hz) (*2)	0.00	0.00	0.00	0.00	×	0
		A112	O2-L input active range end frequency	-400. to -100., -99.9 to 0.00 to 99.99, 100.0 to 400.0 (Hz) (*2)	0.00	0.00	0.00	0.00	×	0
		A113	O2-L input active range start voltage	-100. to 02 end-frequency rate (%)	-100.	-100.	-100.	-100.	×	0
	Г	A114	O2-L input active range end voltage	"02 start-frequency rate" to 100. (%)	100.	100.	100.	100.	×	0
ration	ration	A131	Acceleration curve constants setting	01 (smallest swelling) to 10 (largest swelling)	02	02	02	02	×	0
Accele	deceleration	A132	Deceleration curve constants setting	01 (smallest swelling) to 10 (largest swelling)	02	02	02	02	×	0
		A141	Operation-target frequency selection 1	00 (digital operator), 01 (keypad potentiometer), 02 (input via O), 03 (input via OI), 04 (external communication), 05 (option 1), 06 (option 2), 07 (pulse-string frequency input)	02	02	02	02	×	0
1	Operation-target irequericy	A142	Operation-target frequency selection 2	00 (digital operator), 01 (keypad potentiometer), 02 (input via O), 03 (input via OI), 04 (external communication), 05 (option 1), 06 (option 2), 07 (pulse-string frequency input)	03	03	03	03	×	0
	<u> </u>	A143	Operator selection	00 (addition: A141 + A142), 01 (subtraction: A141 - A142), 02 (multiplication: A141 x A142)	00	00	00	00	×	0
1	ਰ ਛ	A145	Frequency to be added	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	0.00	0.00	0.00	0.00	×	0
		A146	Sign of the frequency to be added	00 (frequency command + A145), 01 (frequency command - A145)	00	00	00	00	×	0
_	ig.	A150	EL-S-curve acceleration ratio 1	0. to 50. (%)	25.	25.	25.	25.	×	×
ratio	era	A151	EL-S-curve acceleration ratio 2	0. to 50. (%)	25.	25.	25.	25.	×	×
ag	deceleration	A152	EL-S-curve deceleration ratio 1	0. to 50. (%)	25.	25.	25.	25.	×	×
٩		A153	EL-S-curve deceleration ratio 2	0. to 50. (%)	25.	25.	25.	25.	×	×

(*1) 4000HF:0.00 to 99.99, 100.0 to 120.0(Hz) (*2) 4000HF: -120. to -100., -99.9 to 0.00 to 99.99, 100.0 to 120.0(Hz)

●B GROUP: FINE TUNING FUNCTIONS

[O= Allowed ×= Not permitted]

B GROUP: FINE TUNING FUNCTIONS [O= Allowed ×= I									
] [Default	Setting		Settina	Change
С	ode	Function Name	Monitored data or setting	-FE(CE)	SJ700 -FU(UL)		L700	during operation (allowed or not)	during operation
pping	b001	Selection of restart mode	00 (tripping), 01 (starting with 0 Hz), 02 (starting with matching frequency), 03 (tripping after deceleration and stopping with matching frequency), 04 (restarting with active matching frequency)	00	00	00	00	×	0
ř	b002	Allowable under-voltage power failure time	0.3 to 25.0 (s)	1.0	1.0	1.0	1.0	×	0
9	b003	Retry wait time before motor restart	0.3 to 100.0 (s)	1.0(*1)	1.0(*1)	1.0(*1)	1.0	×	0
ər failu	b004	Instantaneous power failure/under-voltage trip alarm enable	00 (disabling), 01 (enabling), 02 (disabling during stopping and decelerating to stop)	00	00	00	00	×	0
instantaneous power failure or tripping	b005	Number of restarts on power failure/under-voltage trip events	00 (16 times), 01 (unlimited)	00	00	00	00	×	0
96	b006	Phase loss detection enable	00 (disabling), 01 (enabling)	00	00	00	00	×	0
tan	b007	Restart frequency threshold	0.00 to 99.99, 100.0 to 400.0 (Hz) (*2)	0.00	0.00	0.00	0.00	×	0
	b008	Selection of retry after tripping	00 (tripping), 01 (starting with 0 Hz), 02 (starting with matching frequency), 03 (tripping after deceleration and stopping with matching frequency), 04 (restarting with active matching frequency)	00	00	00	00	×	0
ffer	b009	Selection of retry after undervoltage	00 (16 times), 01 (unlimited)	00	00	00	00	×	0
Restart after	b010	Selection of retry count after overvoltage or overcurrent	1 to 3 (times)	3	3	3	3	×	0
Be	b011	Retry wait time after tripping	0.3 to 100.0 (s)	1.0(*1)	1.0(*1)	1.0(*1)	1.0	×	0
	b012	Electronic thermal setting (calculated within the inverter from current output)	0.20 x "rated current" to 1.00 x "rated current" (A)					×	0
tion	b212	Electronic thermal setting (calculated within the inverter from current output), 2nd motor	0.20 x "rated current" to 1.00 x "rated current" (A)		Rated co	urrent of erx 10		×	0
Electronic thermal function	b312	Electronic thermal setting (calculated within the inverter from current output), 3rd motor	0.20 x "rated current" to 1.00 x "rated current" (A)					×	0
ma	b013	Electronic thermal characteristic	00 (reduced-torque characteristic), 01 (constant-torque characteristic), 02 (free setting)	01	01	00	01	×	0
er	b213	Electronic thermal characteristic, 2nd motor	00 (reduced-torque characteristic), 01 (constant-torque characteristic), 02 (free setting)	01	01	00	01	×	0
c +	b313	Electronic thermal characteristic, 3rd motor	00 (reduced-torque characteristic), 01 (constant-torque characteristic), 02 (free setting)	01	01	00	01	×	0
ö	b015	Free-setting electronic thermal frequency (1)	0. to 400. (Hz) (*3)	0.	0.	0.	0.	×	0
ਲੋ	b016	Free-setting electronic thermal current (1)	0.00 to rated current (A)	0.0	0.0	0.0	0.0	×	0
<u>=</u>	b017	Free-setting electronic thermal frequency (2)	0. to 400. (Hz) (*3)	0.	0.	0.	0.	×	0
_	b018	Free-setting electronic thermal current (2)	0.00 to rated current (A)	0.0	0.0	0.0	0.0	×	0
	b019	Free-setting electronic thermal frequency (3)	0. to 400. (Hz) (*3)	0.	0.	0.	0.	×	0
	b020	Free-setting electronic thermal current (3)	0.00 to rated current (A)	0.0	0.0	0.0	0.0	×	0
overcurrent restraint	b021	Overload restriction operation mode	00 (disabling), 01 (enabling during acceleration and deceleration), 02 (enabling during constant speed), 03 (enabling during acceleration and deceleration (increasing the speed during regeneration))	01	01	01	01	×	0
rcurrent	b022	Overload restriction setting	SJ700: 0.20 x "rated current" to 2.00 x "rated current" (A) < 75kW and over:0.20 x 1.80 > L700: 0.20 x "rated current" to 1.50 x "rated current" (A)	Rated	current	x 1.50	Rated current x 1.20	×	0
ove	b023	Deceleration rate at overload restriction	0.10 to 30.00 (s)	1.00	1.00	1.00	1.00	×	0
Overload restriction and	b024	Overload restriction operation mode (2)	00 (disabling), 01 (enabling during acceleration and deceleration), 02 (enabling during constant speed), 03 (enabling during acceleration and deceleration (increasing the speed during regeneration))	01	01	01	01	×	0
oad rest	b025	Overload restriction setting (2)	SJ700: 0.20 x "rated current" to 2.00 x "rated current" (A) < 75kW and over:0.20 x 1.80 > L700: 0.20 x "rated current" to 1.50 x "rated current" (A)	Rated	current	x 1.50	Rated current x 1.20	×	0
verl	b026	Deceleration rate at overload restriction (2)	0.10 to 30.00 (s)	1.00	1.00	1.00	1.00	×	0
0	b027	Overcurrent suppression enable	00 (disabling), 01 (enabling)	01	01	01	01	×	0

					Default	Setting]	Setting	Change
C	ode	Function Name	Monitored data or setting		SJ700	E(ID)	L700	during operation (allowed or not)	during operation (allowed or not)
2			SJ700: 0.20 x "rated current" to 2.00 x "rated current" (A) < 75kW and over:0.20 x 1.50 >	-FE(CE)	-FU(UL)	-F(JP)		<u> </u>	<u> </u>
Software Overbad restriction and lock overcurrent restraint	b028	Active frequency matching, scan start frequency	L700: 0.20 x "rated current" to 1.50 x "rated current" (A) < 75kW and over 0.20 x 1.50 >	Rated	current c	of inverte	erx 10	×	0
ad restri	b029	Active frequency matching, scan-time constant	0.10 to 30.00 (s)	0.50	0.50	0.50	0.50	×	0
Overbo	b030	Active frequency matching, restart frequency select	00 (frequency at the last shutoff), 01 (maximum frequency), 02 (set frequency)	00	00	00	00	×	Ö
<u>e</u> .			00 (disabling change of data other than "b031" when SFT is on), 01 (disabling change						
<u>ock</u>	b031	Software lock mode selection	of data other than "b031" and frequency settings when SFT is on), 02 (disabling change of data other than "b031"), 03 (disabling change of data other than "b031") and	01	01	01	01	×	0
S			frequency settings), 10 (enabling data changes during operation)						
	b034	RUN/ power-on warning time	0. to 9999. (0 to 99990), 1000 to 6553 (10000 to 655300) (hr)	0.	0.	0.	0.	×	0
	b035	Rotational direction restriction	00 (enabling both forward and reverse rotations), 01 (enabling only forward rotation), 02 (enabling only reverse rotation)	00	00	00	00	×	×
m	h026	Reduced voltage start selection	(minimum reduced voltage start time) to 255 (maximum reduced voltage start time)	06	06	06	06	×	0
Others	b036	neduced voltage start selection	00 (full display), 01 (function-specific display), 02 (user setting), 03 (data comparison						
ਰੋ	b037	Function code display restriction	display), 04 (basic display)	04	04	04	04	×	0
	1.000	lotated account of the state of	00 (screen displayed when the STR key was pressed last), 01 (d001), 02 (d002),	04	04	04	04		
	b038	Initial-screen selection	03 (d003), 04 (d007), 05 (F001)	01	01	01	01	×	0
	b039	Automatic user-parameter setting function enable	00 (disabling), 01 (enabling)	00	00	00	00	×	0
	b040	Torque limit selection	00 (quadrant-specific setting), 01 (switching by terminal), 02 (analog input), 03 (option 1),	00	00	00	00	×	0
			04 (option 2)						
io	b041	Torque limit(1) (Forward-driving in 4-quadrant mode)	SJ700: 0. to 200. (%), no (disabling torque limitation) < 75kW and over:0. to 180.> L700: 0. to 150.(%), no (disabling torque limitation)	150.	150.	150.	120.	×	0
itat		Torque limit(2)	SJ700: 0. to 200. (%), no (disabling torque limitation) < 75kW and over:0. to 180.>						
<u>=</u>	b042	(Reverse-regenerating in 4-quadrant mode)	L700: 0. to 150.(%), no (disabling torque limitation)	150.	150.	150.	120.	×	0
an	b043	Torque limit(3)	SJ700: 0. to 200. (%), no (disabling torque limitation) < 75kW and over:0. to 180.>	150.	150.	150.	120.	×	0
Torque limitation	DU43	(Reverse-driving in 4-quadrant mode)	L700: 0. to 150.(%), no (disabling torque limitation)	150.	150.	130.	120.	^	
	b044	Torque limit(4)	SJ700: 0. to 200. (%), no (disabling torque limitation) < 75kW and over:0. to 180.>	150.	150.	150.	120.	×	0
		(Forward-regenerating in 4-quadrant mode)	L700: 0. to 150.(%), no (disabling torque limitation)	00					0
_	b045	Torque limit LADSTOP enable	00 (disabling), 01 (enabling)	00	00	00	00	×	0
Non-stop operation at nomentary power failure	b046 b050	Reverse RUN protection enable Controlled deceleration and stop on power loss	00 (disabling), 01 (enabling) 00 (disabling), 01 (enabling)	00	00	00	00	×	×
ation	b050 b051	DC bus voltage trigger level during power loss	0.0 to 999.9, 1000. (V)	+		220.0/440.0	220.0/440.0	×	×
pow	b051	Over-voltage threshold during power loss	0.0 to 999.9, 1000. (V)			360.0/720.0	360.0/720.0	×	×
tary	b053	Deceleration time setting during power loss	0.01 to 99.99, 100.0 to 999.9, 1000. to 3600. (s)	1.00	1.00	1.00	1.00	×	×
nen	b054	Initial output frequency decrease during power loss	0.00 to 10.00 (Hz)	0.00	0.00	0.00	0.00	×	×
ž٤	b055	Proportional gain setting for nonstop operation at power loss	0.00 to 2.55	0.20	0.20	0.20	0.20	0	0
	b056	Integral time setting for nonstop operation at power loss	0.0 to 9.999 /10.00 to 65.55	0.100	0.100	0.100	0.100	0	0
	b060	Maximum-limit level of window comparators O	0. to 100. (lower limit : b061 + b062*2) (%)	100	100	100	100	0	0
_	b061	Minimum-limit level of window comparators O	0. to 100. (lower limit : b060 - b062*2) (%)	0	0	0	0	0	0
귫	b062	Hysteresis width of window comparators O	0. to 10. (lower limit : b061 - b062 / 2) (%)	0	0	0	0	0	0
are	b063	Maximum-limit level of window comparators OI	0. to 100. (lower limit : b064 + b066*2) (%)	100	100	100	100	0	0
	b064	Minimum-limit level of window comparators OI	0. to 100. (lower limit : b063 - b066*2) (%)	0	0	0	0	0	0
Ē					_		_		0
com	b065	Hysteresis width of window comparators OI	0. to 10. (lower limit : b063 - b064 / 2) (%)	0	0	0	0	00	0
dow com	b066	Maximum-limit level of window comparators OI	-100. to 100. (lower limit : b067 + b068*2) (%)	100	100	100	100	0	Ō
/indow com	b066 b067	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%)	100	100	100 -100	100	0	0
Window comparator	b066 b067 b068	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%)	100 -100 0	100 -100 0	100 -100 0	100 -100 0	0	0
Window com	b066 b067 b068 b070	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore)	100 -100 0 255(no)	100 -100 0 255(no)	100 -100 0 255(no)	100 -100 0 255(no)	0 0 0 x	0
Window com	b066 b067 b068	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore)	100 -100 0 255(no)	100 -100 0 255(no) 255(no)	100 -100 0	100 -100 0	0	0 0
Window com	b066 b067 b068 b070 b071	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore)	100 -100 0 255(no) 255(no)	100 -100 0 255(no) 255(no)	100 -100 0 255(no) 255(no)	100 -100 0 255(no) 255(no)	0 0 0 x x	0 0 0
Window com	b066 b067 b068 b070 b071 b072	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at O2 disconnection	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore)	100 -100 0 255(no) 255(no) 127(no)	100 -100 0 255(no) 255(no) 127(no)	100 -100 0 255(no) 255(no) 127(no)	100 -100 0 255(no) 255(no) 127(no)	O O X X	0 0 0 0 0
Window com	b066 b067 b068 b070 b071 b072 b078	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at O2 disconnection Cumulative input power data clearance	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key	100 -100 0 255(no) 255(no) 127(no) 00	100 -100 0 255(no) 255(no) 127(no) 00	100 -100 0 255(no) 255(no) 127(no) 00	100 -100 0 255(no) 255(no) 127(no) 00	O O X X X O	0 0 0 0 0 0 0
Window com	b066 b067 b068 b070 b071 b072 b078 b079	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 1 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "so" (ignore) 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0>	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0
Window com	b066 b067 b068 b070 b071 b072 b078 b079	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at O2 disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.>	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	100 -100 0 255(no) 255(no) 127(no) 00 1.	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	O O X X X X O X X	0 0 0 0 0 0 0 0 0 0 0
Window com	b066 b067 b068 b070 b071 b072 b078 b079	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at O2 disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50	O O X X X X O X X	0 0 0 0 0 0 0 0 0 0 0
Window com	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1)	O	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Window com	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 15.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1)	O O X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 x
Window com	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1)	O	0 0 0 0 0 0 0 0 0 0 x
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 15.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 02 1.0	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 1.0	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 × 1.0	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 x
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at O2 disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 1.0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1) 00	O O X X X X X X X X X X O O O O O O O O	0 0 0 0 0 0 0 0 0 0 x 0 x
Others Window com	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 02 1.0 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 1.0 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 × 1.0 00 00	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 15.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 02 1.0 00 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 1.0 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 × 1.0 00 00	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b067 / 2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 15.0(kHz) <90kW and over:0.5 to 8.0.> 0 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 02 1.0 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 1.0 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 × 1.0 00 00	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <40kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (always operating the fan), 01 (operating the fan only during inverter operation	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 02 1.0 00 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 1.0 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 × 1.0 00 00	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b089 b090 b091	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <40kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off])	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 02 1.0 00 00 00 00 00	100 -100 0 255(no) 255(no) 1127(no) 00 1. 0.50 5.0(*2) 00 00 1.0 00 00 00 00 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 × 1.0 00 00 00 00	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <40kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (always operating the fan), 01 (operating the fan only during inverter operation	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 02 1.0 00 00 00 00	100 -100 0 255(no) 255(no) 01 127(no) 00 1. 0.50 5.0(*2) 00 00 1.0 00 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 × 1.0 00 00 00	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b089 b090 b091	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control	-100. to 100. (lower limit: b067 + b068*2) (%) -100. to 100. (lower limit: b066 - b068*2) (%) 0. to 10. (lower limit: b066 - b068*2) (%) 0. to 10. (lower limit: b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off])	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 02 1.0 00 00 00 00 00	100 -100 0 255(no) 0255(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 × 1.0 00 00 00 00 01	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b090 b091 b092	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking control Dynamic braking activation level	-100. to 100. (lower limit: b067 + b068*2) (%) -100. to 100. (lower limit: b066 - b068*2) (%) 0. to 10. (lower limit: b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 15.0(kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC),	100 -100 0 255(no) 127(no) 0 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 02 1.0 00 00 00 00 00 00 00	100 -100 0 255(no) 255(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 255(no) 00 1. 0.50 3.0(*1) 00 00 00 00 00 01 01 01 360/720	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b086 b086 b087 b088 b090 b091 b092 b098	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking control Dynamic braking activation level Thermistor for thermal protection control	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 255(no) 255(no) 00 1.7 0.50 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 00 01 01 01 360/720	O O O X X X X X X X X X X X X X X X X X	x x x x x
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b099 b091 b092 b095 b098 b099	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking activation level Thermistor for thermal protection control	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with NTC) 0. to 9999. (Ω)	100 -100 0 255(no) 127(no) 0 1. 0.50 5.0(*2) 00 01 0.0 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 255(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 00 01 01 360/720 00 3000.	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b099 b091 b092	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting V/f frequency (1)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with NTC) 0. to 9999. (Ω) 0. to "free-setting V/f frequency (2)" (Hz)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 0 255(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 00 01 01 360/720 00 3000.	O O X X X X X X X X X X X X X X X X X X	x x x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b099 b099 b099 b100 b101	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting V/f frequency (1) Free-setting V/f voltage (1)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 15.0(kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC) 0. to 9999. (£) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V)	100 -100 0 255(no) 127(no) 0 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 0 255(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 1. 0.50 3.0(*1) 00 × 1.0 00 00 00 01 01 01 360/720 00 3000. 0.0	O O X X X X X X X X X X X X X X X X X X	x x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b099 b091 b092 b095 b096 b098 b099 b100 b101 b102	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting V/f frequency (1) Free-setting V/f frequency (2)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 15.0(kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling lenabling also while the motor is topped)) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC) 0. to 9999. (Ω) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (3)" (Hz)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 360/720 00 3000. 0.0 0.0	100 -100 0 255(no) 0 255(no) 00 1. 0.50 5.0(*2) 00 00 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 01 01 360/720 00 3000. 0.0 0.0	O O X X X X X X X X X X X X X X X X X X	x x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b086 b087 b088 b099 b090 b091 b092 b098 b099 b100 b101 b102 b103	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting V/f frequency (1) Free-setting V/f frequency (2) Free-setting V/f voltage (2)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 360/720 00 3000. 0. 0.0 0.0 0.0	100 -100 0 255(no) 0 255(no) 00 1. 0.50 00 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 01 01 360/720 00 3000. 0. 0.0 0.0 0.0 0.0	O O O X X X X X X X X X X X X X X X X X	
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b099 b091 b092 b095 b096 b098 b099 b100 b101 b102 b103 b104	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting Vf voltage (1) Free-setting Vf voltage (2) Free-setting Vf frequency (3)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC) 0. to 9999. (Ω) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (3)" (Hz) 0.0 to "free-setting V/f frequency (4)" (Hz)	100 -100 0 255(no) 127(no) 0 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 255(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 00 01 01 360/720 00 3000. 0. 0.0 0.0 0.0 0.0	O O X X X X X X X X X X X X X X X X X X	x x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b099 b090 b091 b092	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting Vf frequency (1) Free-setting Vf frequency (2) Free-setting Vf frequency (3) Free-setting Vf voltage (1) Free-setting Vf voltage (2) Free-setting Vf voltage (3)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling laso while the motor is topped]) 330 to 380, 660 to 760(V) 0. (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC) 0. to 9999. (Ω) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (3)" (Hz) 0.0 to 800.0 (V)	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 360/720 00 3000. 0. 0.0 0.0 0.0	100 -100 0 255(no) 0 255(no) 00 1. 0.50 00 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 01 01 360/720 00 3000. 0. 0.0 0.0 0.0 0.0	O O O X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b099 b091 b092 b095 b096 b098 b099 b100 b101 b102 b103 b104	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting Vf voltage (1) Free-setting Vf voltage (2) Free-setting Vf frequency (3)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC) 0. to 9999. (Ω) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (3)" (Hz) 0.0 to "free-setting V/f frequency (4)" (Hz)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 0 255(no) 00 1. 0.50 5.0(*2) 00 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 00 01 01 360/720 00 3000. 0. 0.0 0.0 0.0 0.0 0.0 0.0 0.	O O X X X X X X X X X X X X X X X X X X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b099 b091 b092 b095 b096 b098 b099 b100 b101 b102 b103 b104 b105 b106	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting V/f requency (2) Free-setting V/f requency (3) Free-setting V/f voltage (1) Free-setting V/f voltage (3) Free-setting V/f frequency (4)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling lenabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC) 0. to 9999. (Ω) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (3)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (4)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (5)" (Hz)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 0 255(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 00 01 01 360/720 00 3000. 0. 0.0 0.0 0.0 0.0 0.0 0.0 0.	O O X X X X X X X X X X X X X X X X X X	x x x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b099 b090 b091 b092 b095 b096 b098 b099 b100 b101 b102 b103 b104 b105 b106 b107	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting V/f frequency (2) Free-setting V/f frequency (3) Free-setting V/f frequency (4) Free-setting V/f frequency (4) Free-setting V/f voltage (9) Free-setting V/f voltage (9)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 15.0(kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling laso while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor with NTC) 0. to 9999. (£) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (4)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (5)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (5)" (Hz) 0.0 to 800.0 (V)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 0 255(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 00 01 01 360/720 00 3000. 0. 0.0 0.0 0.0 0.0 0.0 0.0 0.	O O X X X X X X X X X X X X X X X X X X	x x x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Others	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b099 b091 b092 b095 b096 b098 b099 b100 b101 b102 b103 b104 b105 b106 b107 b108	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting V/f frequency (1) Free-setting V/f frequency (2) Free-setting V/f voltage (1) Free-setting V/f frequency (3) Free-setting V/f frequency (4) Free-setting V/f frequency (4) Free-setting V/f frequency (5) Free-setting V/f voltage (6)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (5)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (6)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (6)" (Hz)	100 -100 0 255(no) 127(no) 0 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 -100 0 155(no) 255(no) 157(no) 157(no) 00 1. 0.50 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 00 01 01 360/720 00 3000. 0. 0.0 0.0 0.0 0.0 0.0 0.0 0.	O O X X X X X X X X X X X X X X X X X X	
	b066 b067 b068 b070 b071 b072 b078 b079 b082 b083 b084 b085 b086 b087 b088 b099 b100 b101 b102 b103 b104 b105 b106 b107 b108 b109	Maximum-limit level of window comparators OI Minimum-limit level of window comparators O/OI/O2 Hysteresis width of window comparators O/OI/O2 Operation level at O disconnection Operation level at OI disconnection Operation level at OI disconnection Cumulative input power data clearance Cumulative input power display gain setting Start frequency adjustment Carrier frequency setting Initialization mode (parameters or trip history) Country code for initialization Frequency scaling conversion factor STOP key enable Restart mode after FRS Automatic carrier frequency reduction Dynamic braking usage ratio Stop mode selection Cooling fan control Dynamic braking activation level Thermistor for thermal protection control Thermal protection level setting Free-setting V/f frequency (1) Free-setting V/f frequency (2) Free-setting V/f voltage (1) Free-setting V/f frequency (3) Free-setting V/f frequency (4) Free-setting V/f frequency (4) Free-setting V/f frequency (5) Free-setting V/f voltage (6)	-100. to 100. (lower limit : b067 + b068*2) (%) -100. to 100. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 10. (lower limit : b066 - b068*2) (%) 0. to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) 0 to 100 (%) or "no" (ignore) Clearance by setting "01" and pressing the STR key 1. to 1000. 0.10 to 9.99 (Hz) SJ700: 0.5 to 15.0(kHz) <75 to 132kW:0.5 to 10.0/185kW and over:0.5 to 3.0> L700: 0.5 to 12.0 (kHz) <90kW and over:0.5 to 8.0.> 00 (clearing the trip history), 01 (initializing the data), 02 (clearing the trip history and initializing the data) 00 (Japan), 01 (EU), 02 (U.S.A.) 0.1 to 99.0 00 (enabling), 01 (disabling), 02 (disabling only the function to stop) 00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (starting with active matching frequency) 00: invalid, 01: valid 0.0 to 100.0 (%) 00 (deceleration until stop), 01 (free-run stop) 00 (always operating the fan), 01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off]) 00 (disabling), 01 (enabling [disabling while the motor is topped]), 02 (enabling [enabling also while the motor is topped]) 330 to 380, 660 to 760(V) 00 (disabling the thermistor), 01 (enabling the thermistor with PTC), 02 (enabling the thermistor with NTC) 0. to "free-setting V/f frequency (2)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (3)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (5)" (Hz) 0.0 to 800.0 (V) 0. to "free-setting V/f frequency (5)" (Hz) 0.0 to 800.0 (V)	100 -100 0 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 01 1.0 00 00 00 00 00 00 00 00 00 00 00 00 0	100 -100 0 255(no) 255(no) 127(no) 00 1. 0.50 5.0(*2) 00 00 00 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 255(no) 255(no) 00 1. 0.50 5.0(*2) 00 00 0.0 00 00 00 00 00 00 00 00 00 00	100 -100 0 255(no) 127(no) 00 1. 0.50 3.0(*1) 00 00 00 00 01 01 360/720 00 3000. 0. 0.0 0.0 0.0 0.0 0.0 0.0 0.	O O O X X X X X X X X X X X X X X X X X	

^{(*1) &}quot;Over current protection", "Overload restriction", "Over current limiting" and "Electronic thermal protection" might operate from the set value when "Carrier frequency setting" is used with less than 2kHz by a low value. Please set to 2kHz or more and use the setting of "Carrier frequency setting" for such a situation. (*2) 1850HF,2200HF and 3150HF:2.1, 4000HF:1.9

		Function Namo Manitavad data av actting	Default Setting				Setting	Change	
	Code	Function Name	Monitored data or setting		SJ700		L700	during operation	during operation
				-FE(CE)	-FU(UL)	-F(JP)	L/00	(allowed or not)	(allowed of flot)
e setting of NIY	b112	Free-setting V/f frequency (7)	0.0 to 400.0 (Hz) (*1)	0.	0.	0.	0.	×	×
Frees	b113	Free-setting V/f voltage (7)	0.0 to 800.0 (V)	0.0	0.0	0.0	0.0	×	×
	b120	Brake control enable	00 (disabling), 01 (enabling)	00	00	00	×	×	0
	b121	Brake wait time for release	0.00 to 5.00 (s)	0.00	0.00	0.00	×	×	0
	b122	Brake wait time for acceleration	0.00 to 5.00 (s)	0.00	0.00	0.00	×	×	0
	b123	Brake wait time for stopping	0.00 to 5.00 (s)	0.00	0.00	0.00	×	×	0
	b124	Brake wait time for confirmation	0.00 to 5.00 (s)	0.00	0.00	0.00	×	×	0
	b125	Brake release frequency setting	0.00 to 99.99, 100.0 to 400.0 (Hz) (*2)	0.00	0.00	0.00	×	×	0
Others	b126	Brake release current setting	0.0 to 2.00 x "rated current"	Rated	d current	x 1.00	×	×	0
₹	b127	Braking frequency	0.00 to 99.99, 100.0 to 400.0 (Hz) (*2)	0.00	0.00	0.00	×	×	0
O	b130	Overvoltage suppression enable	00 (disabling the restraint), 01 (decelerating and stagnating), 02 (enabling acceleration)	00	00	00	00	×	0
	b131	Overvoltage suppression level	330 to 390 (V) (200 V class model), 660 to 780 (V) (400 V class model)	380/760	380/760	380/760	380/760	×	0
	b132	Acceleration and deceleration rate at overvoltage suppression	0.10 to 30.00 (s)	1.00	1.00	1.00	1.00	×	0
	b133	Overvoltage suppression propotional gain	0.00 to 2.55	0.50	0.50	0.50	0.50	0	0
	b134	Overvoltage suppression Integral time	0.000 to 9.999 / 10.00 to 63.53 (s)	0.060	0.060	0.060	0.060	0	0

(*1) 4000HF:0.0 to 120.0(Hz) (*2)4000HF:0.00 to 99.99, 100.0 to 120.0(Hz)

©C GROUP: INTELLIGENT TERMINAL FUNCTIONS

 $[O= Allowed \times= Not permitted]$

_	Jun	OUP: INTELLIGENT TER					[O= All	owed X= No	ot permit
					Default	Setting]	Setting	Chang
C	ode	Function Name	Monitored data or setting		SJ700		. =	during appration	during one
			mormores data er cettinig	-FE(CE)	-FU(UL)		L/00	(allowed or not)	(allowed c
	C001	Terminal [1] function (*1)	01 (RV: Reverse RUN), 02 (CF1: Multispeed 1 setting), 03 (CF2: Multispeed 2 setting), 04 (CF3: Multispeed 3 setting), 05 (CF4: Multispeed 4 setting), 06 (JG: Jogging), 07 (DB: external DC braking), 08 (SET: Set 2nd motor data), 09 (2CH: 2-stage		18(RS)		18(RS)	×	0
	C002	Terminal [2] function	acceleration/deceleration), 11 (FRS: free-run stop), 12 (EXT: external trip), 13 (USP: unattended start protection), 14: (CS: commercial power source enable), 15 (SFT: software lock), 16 (AT: analog input voltage/current select), 17 (SET3: 3rd motor control), 18 (RS:	16(AT)	16(AT)	16(AT)	16(AT)	×	0
	C003	Terminal [3] function (*1)	reset), 20 (STA: starting by 3-wire input), 21 (STP: stopping by 3-wire input), 22 (F/R: forward/reverse switching by 3-wire input), 23 (PID: PID disable), 24 (PIDC: PID reset), 26 (CAS: control gain setting), 27 (UP: remote control UP function), 28 (DWN: remote	06(JG)	06(JG)	06(JG)	03(CF2)	×	С
	C003	reminar [5] function (1)	control DOWN function), 29 (DWN: remote control data clearing), 31 (OPE: forcible operation), 32 (SF1: multispeed bit 1), 33 (SF2: multispeed bit 2), 34 (SF3: multispeed bit 3), 35 (SF4: multispeed bit 4), 36 (SF5: multispeed bit 5), 37 (SF6: multispeed bit 6),	, ,	. ,	. ,			
	C004	Terminal [4] function	38 (SF7: multispeed bit 7), 39 (OLR: overload restriction selection), 40 (TL: torque limit enable), 41 (TRQ1: torque limit selection bit 1), 42 (TRQ2: torque limit selection bit 2), 43 (PPI: P/PI mode selection), 44 (BOK: braking confirmation)(*2), 45 (ORT:	11(FRS)	11(FRS)	11(FRS)	02(CF1)	×	
	C005	Terminal [5] function	orientation)(*2), 46 (LAC: LAD cancellation), 47 (PCLR: clearance of position deviation)(*2), 48 (STAT: pulse train position command input enable)(*2), 50 (ADD: trigger for frequency addition [A145]), 51 (F-TM: forcible-terminal operation), 52 (ATR: permission of torque	09(2CH)	09(2CH)	09(2CH)	01(RV)	×	
	C006	Terminal [6] function	command input)(*2), 53 (KHC: cumulative power clearance), 54 (SON: servo-on)(*2), 55 (FOC: pre-excitation)(*2), 56 (MI1: general-purpose input 1), 57 (MI2: general-purpose input 2), 58 (MI3: general-purpose input 3), 59 (MI4: general-purpose input 4), 60 (MI5:	03(CF2)	13(USP)	03(CF2)	06(JG)	×	C
l	C007	Terminal [7] function	general-purpose input 5), 61 (MI6: general-purpose input 6), 62 (MI7: general-purpose input 7), 63 (MI8: general-purpose input 8), 64 (EMR: Emergency stop)(*1), 65 (AHD: analog command holding), 66 (CP1: multistage position intering selection 1)(*2), 67 (CP2: multistage position and the stop of the stop o	02(CF1)	02(CF1)	02(CF1)	11(FRS)	×	(
	C008	Terminal [8] function	settings selection 2)("2), 68 (CP3: multistage position settings selection 3)("2), 69 (ORL: Zero-return limit function)("2), 70 (ORG: Zero-return trigger function)("2), 71 (FOT: forward drive stop)("2), 72 (ROT: reverse drive stop)("2), 73 (SPD: speed / position switching)("2), 74 (PCNT: pulse counter), 75 (PCC: pulse counter clear), no (NO: no assignment)	01(RV)	01(RV)	01(RV)	13(USP)	×	
t	C011	Terminal (1) active state	00(NO) / 01(NC)	00	00	00	00	×	
i	C012	Terminal (2) active state	00(NO) / 01(NC)	00	00	00	00	×	
	C013	Terminal (3) active state	00(NO) / 01(NC)	00	00	00	00	×	(
	C014	Terminal (4) active state	00(NO) / 01(NC)	00	00	00	00	×	(
	C015	Terminal (5) active state	00(NO) / 01(NC)	00	00	00	00	×	(
ŀ	C016	Terminal (6) active state	00(NO) / 01(NC)	00	01	00	00	×	
ŀ	C017	Terminal (7) active state		00	00	00	00	×	
ŀ		1.7	00(NO) / 01(NC)	00	00	00	00	×	
ŀ	C018	Terminal (8) active state	00(NO) / 01(NC)	00	-	00	00	×	
	C019	Terminal FW active state	00(NO) / 01(NC)	00	00	00	00		(
	C021	Terminal (11) function	00 (RUN: running), 01 (FA1: constant-speed reached), 02 (FA2: set frequency overreached), 03 (OL: overload notice advance signal (1)), 04 (OD: output deviation for PID control), 05 (AL: alarm signal), 06 (FA3: set frequency reached), 07 (OTC: over-torque), 08 (IP: instantaneous power failure), 09 (UV:	01(FA1)	01(FA1)	01(FA1)	01(FA1)	×	(
	C022	Terminal (12) function	undervoltage), 10 (TRQ: torque limited), 11 (RNT: operation time over), 12 (ONT: plug-in time over), 13 (THM: thermal alarm signal), 19 (BRK: brake release)(*2), 20 (BER: braking error)(*2), 21 (ZS: O Hz detection signal), 22 (DSE: speed deviation maximum)(*2), 23 (POK: positioning completed)(*2), 24 (FA4: set frequency overreached 2), 25 (FA5: set frequency reached 2), 26 (OL2: overload notice	00(RUN)	00(RUN)	00(RUN)	00(RUN)	×	(
	C023	Terminal (13) function	advance signal (2)), 27 (Odc: Analog O disconnection detection), 28 (OIDc: Analog OI disconnection detection), 29 (O2Dc: Analog O2 disconnection detection), 31 (FBV: PID feedback comparison), 32 (NDc: communication line disconnection), 33 (LOG1: logical operation result 1), 34 (LOG2: logical	03(OL)	03(OL)	03(OL)	03(OL)	×	(
	C024	Terminal (14) function	operation result 2), 35 (LOG3: logical operation result 3), 36 (LOG4: logical operation result 4), 37 (LOG5: logical operation result 5), 38 (LOG6: logical operation result 6), 39 (WAC: capacitor life warning)("3), 40 (WAF: cooling-fan speed drop), 41 (FR: starting contact signal), 42 (OHF: heat sink overheat warning), 43 (LOC: low-current indication signal), 44 (MD1: general-purpose output 1),	07(OTO)	07(OTO)	07(OTO)	07(OTO)	×	(
	C025	Terminal (15) function	45 (M02: general-purpose output 2), 46 (M03: general-purpose output 3), 47 (M04: general-purpose	40(WAF)	40(WAF)	40(WAF)	40(WAF)	×	(
	C026	Alarm relay terminal function	(When alarm code output is selected for "C062", functions "AC0" to "AC2" or "AC0" to "AC3" [ACn: alarm code output] are forcibly assigned to intelligent output terminals 11 to 13 or 11 to 14, respectively.)	05(AL)	05(AL)	05(AL)	05(AL)	×	(
	C027	FM signal selection	00 (output frequency), 01 (output current), 02 (output torque), 03 (digital output frequency), 04 (output voltage), 05 (input power), 06 (electronic thermal overload), 07 (LAD frequency), 08 (digital current monitoring), 09 (motor temperature), 10 (heat sink temperature), 12 (general-purpose output YAO)	00	00	00	00	×	(
	C028	AM signal selection	00 (output frequency), 01 (output current), 02 (output torque), 04 (output voltage), 05 (input power), 06 (electronic thermal overload), 07 (LAD frequency), 09 (motor temperature), 10 (heat sink temperature), 11 (output torque [signed value]), 13 (general-purpose output YA1)	00	00	00	00	×	(
	C029	AMI signal selection	00 (output frequency), 01 (output current), 02 (output torque), 04 (output voltage), 05 (input power), 06 (electronic thermal overload), 07 (LAD frequency), 09 (motor temperature), 10 (heat sink temperature), 14 (general-purpose output YA2)	00	00	00	00	×	

C GROUP: INTELLIGENT TERMINAL FUNCTIONS							[O= Allo	owed ×= No	t permitted]
С	ode	Function Name	Monitored data or setting		Default SJ700 -FU(UL)		L700	Setting during operation (allowed or not)	Change during operation (allowed or not)
vnalog onitoring	C030	Digital current monitor reference value	SJ700.0.20 x "rated current" to 2.00 x "rated current" (A) / L700:0.20 x "rated current" to 1.50 x "rated current" (A) (Current with digital current monitor output at 1,440 Hz)	-FE(GE)	Rated o	current of erx 10		0	0
~ ∈	C021	Terminal (11) active state	00(NO) / 01(NC)	00	00	00	00	×	0
als	C031	` '		00					0
Intelligent tput terminals	C032	Terminal (12) active state	00(NO) / 01(NC)		00	00	00	×	0
tege teu	C033	Terminal (13) active state	00(NO) / 01(NC)	00	00	00			
prt	C034	Terminal (14) active state	00(NO) / 01(NC)	00	00	00	00	×	0
-jg	C035	Terminal (15) active state	00(NO) / 01(NC)	00	00	00	00	×	0
	C036	Alarm relay terminal active state	00(NO) / 01(NC)	01	01	01	01	×	0
	C020	Law as went indication signal autout made calcution	00 (output during acceleration/deceleration and constant-speed operation),	01	01	01	01	×	0
	C038	Low-current indication signal output mode selection	01 (output only during constant-speed operation)	01	01	01	01	^	
	C039	Low-current indication signal detection level	SJ700:0.0 to 2.00 x "rated current" (A) / L700:0.0 to 1.50 x "rated current" (A)	Rated	current	of inverte	erx 10	×	0
			00 (output during acceleration/deceleration and constant-speed operation),						-
	C040	Overload signal output mode	01 (output only during constant-speed operation)	01	01	01	01	×	0
	C041	Overload level setting	SJ700:0.0 to 2.00 x "rated current" (A) / L700:0.0 to 1.50 x "rated current" (A)	Rated	current	of inverte	arv 1 0	×	0
		9				0.00		×	0
<u>S</u>	C042	Frequency arrival setting for accel.	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	0.00	0.00		0.00		
ਸ਼	C043	Frequency arrival setting for decel.	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	0.00	0.00	0.00	0.00	×	0
st	C044	PID deviation level setting	0.0 to 100.0 (%)	3.0	3.0	3.0	3.0	×	0
ਬ	C045	Frequency arrival setting for acceleration (2)	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	0.00	0.00	0.00	0.00	×	0
₹	C046	Frequency arrival setting for deceleration (2)	0.00 to 99.99, 100.0 to 400.0 (Hz) (*1)	0.00	0.00	0.00	0.00	×	0
ē	C052	Maximum PID feedback data	0.0 to 100.0 (%)	100.0	100.0	100.0	100.0	×	0
Ħ	C053	Minimum PID feedback data	0.0 to 100.0 (%)	0.0	0.0	0.0	0.0	×	0
百	0000	WILLIAM IN THE TOTAL A UALA		0.0	0.0	0.0	0.0	^	
Levels and output terminal status	C055	Over-torque(Forward-driving) level setting	SJ700: 0. to 200. (%) < 75kW and over:0. to 180.> L700: 0. to 150. (%)	100.	100.	100.	100.	×	0
an	C056	Over-torque(Reverse-regenerating) level setting	SJ700: 0. to 200. (%) < 75kW and over:0. to 180.>	100.	100.	100.	100.	×	0
iels		, , , , , , , , , , , , , , , , , , , ,	L700: 0. to 150. (%)						
è	C057	Over-torque(Reverse-driving) level setting	SJ700: 0. to 200. (%) < 75kW and over:0. to 180.>	100.	100.	100.	100.	×	0
_		, , , , , , , , , , , , , , , , , , ,	L700: 0. to 150. (%)			1			
	C058	Over-torque(Forward-regenerating) level setting	SJ700: 0. to 200. (%) < 75kW and over:0. to 180.>	100.	100.	100.	100.	×	0
	0000	Over-torque(i orward-regenerating) level setting	L700: 0. to 150. (%)	100.	100.	100.	100.	^	
	C061	Electronic thermal warning level setting	0. to 100. (%)	80.	80.	80.	80.	×	0
	C062	Alarm code input	00(Disabled) / 01(3-bit) / 02(4-bit)	00	00	00	00	×	0
	C063	Zero speed detection level	0.00 to 99.99, 100.0 (Hz)	0.00	0.00	0.00	0.00	×	Ö
	C064	·	0. to 200.0 (°C)	120.	120.	120.	120.	×	0
		Heat sink overheat warning level							
드	C071	Communication speed selection	02 (loopback test), 03 (2,400 bps), 04 (4,800 bps), 05 (9,600 bps), 06 (19,200 bps)	04	04	04	04	×	0
뜴	C072	Node allocation	1. to 32.	1.	1.	1.	1.	×	0
Ĭ	C073	Communication data length selection	7 (7 bits), 8 (8 bits)	7	7	7	7	×	0
J f	C074	Communication parity selection	00 (no parity), 01 (even parity), 02 (odd parity)	00	00	00	00	×	0
Ö	C075	Communication stop bit selection	1 (1 bit), 2 (2 bits)	1	1	1	1	×	0
Communication function	C076	Selection of the operation after communication error	00 (tripping), 01 (tripping after decelerating and stopping the motor), 02 (ignoring errors), 03 (stopping the motor after free-running), 04 (decelerating and stopping the motor)	02	02	02	02	×	0
π	0077	Communication time and limit before trians		0.00	0.00	0.00	0.00	×	0
Ē	C077	Communication timeout limit before tripping	0.00 to 99.99 (s)	0.00					0
ပိ	C078	Communication wait time	0. to 1000. (ms)	0.	0.	0.	0.	×	
	C079	Communication mode selection	00(ASCII), 01(Modbus-RTU)	00	00	00	00	×	0
Ħ	C081	O input span calibration	0. to 9999., 1000 to 6553(10000 to 65530)					×	0
<u> </u>	C082	OI input span calibration	0. to 9999., 1000 to 6553(10000~65530)		Foots	nrv oot		×	0
Adjustment	C083	O2 input span calibration	0. to 9999., 1000 to 6553(10000~65530)		racio	ory set		×	0
ij	C085	Thermistor input tuning	0.0 to 999.9, 1000.					×	0
A	C091	Debug mode enable	(Do not change this parameter, which is intended for factory adjustment.)	00	00	00	00	×	×
	C101	•		00	00	00	00	×	Ô
	CIUI	UP/DOWN memory mode selection	00 (not storing the frequency data), 01 (storing the frequency data)	00	00	00	00	^	
Others	C102	Reset mode selection	00 (resetting the trip when RS is on), 01 (resetting the trip when RS is off), 02 (enabling resetting only upon tripping [resetting when RS is on])	00	00	00	00	0	0
ō	C103	Restart mode after reset	00 (starting with 0 Hz), 01 (starting with matching frequency), 02 (restarting with active matching frequency)	00	00	00	00	×	0
	C105	EM gain adjustment	50. to 200. (%)	100.	100.	100.	100.	0	0
Jen.	C105	FM gain adjustment							0
ustr	C106	AM gain adjustment	50. to 200. (%)	100.	100.	100.	100.	0	
adji	C107	AMI gain adjustment	50. to 200. (%)	100.	100.	100.	100.	0	0
ter	C109	AM bias adjustment	0. to 100. (%)	0.	0.	0.	0.	0	
₩	C110	AMI bias adjustment	0. to 100. (%)	20.	20.	20.	20.	0	0
Adjustment Terminal Meter adjustment	C111	Overload setting (2)	SJ700:0.0 to 2.00 x "rated current" (A) <75kW and over:0.0 to 1.80 x "rated current"> L700:0.0 to 1.50 x "rated current" (A)			current of erx 10	i	×	0
Ħ	C101	O input zoro colibration	* *					0	0
mer	C121	O input zero calibration	0. to 9999., 1000 to 6553 (10000 to 65530)		F				
inst	C122	OI input zero calibration	0. to 9999., 1000 to 6553 (10000 to 65530)		Facto	ory set		0	0
PA.	C123	O2 input zero calibration	0. to 9999., 1000 to 6553 (10000 to 65530)					0	0
	C130	Output 11 on-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	0	0
	C131	Output 11 off-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	0
	C132	Output 12 on-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	0
_	C133	Output 12 off-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	Ö
Output terminal operation function			0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	0
jc	C134	Output 13 on-delay time							
Ę	C135	Output 13 off-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	0
Ę	C136	Output 14 on-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	0
ij	C137	Output 14 off-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	0
ers	C138	Output 15 on-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	0
ě	C139	Output 15 off-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	0
<u>=</u>	C140	Output RY on-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	Ö
Ē		Output RY off-delay time	0.0 to 100.0 (s)	0.0	0.0	0.0	0.0	×	0
Ē	C141					_			
te e	C142	Logical output signal 1 selection 1	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
out.	C143	Logical output signal 1 selection 2	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
불	C144	Logical output signal 1 operator selection	00 (AND), 01 (OR), 02 (XOR)	00	00	00	00	×	0
0	C145	Logical output signal 2 selection 1	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
	C146	Logical output signal 2 selection 2	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
			J						

(*1)4000HF:0.00 to 99.99 , 100.0 to 120.0(Hz)

	5				Default	Setting		Settina	Change
C	Code	Function Name	Monitored data or setting		SJ700		L700	during operation	
				-FE(CE)	-FU(UL)	-F(JP)	L/00	(allowed or not)	(allowed or not)
	C147	Logical output signal 2 operator selection	00 (AND), 01 (OR), 02 (XOR)	00	00	00	00	×	0
Ξ	C148	Logical output signal 3 selection 1	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
function	C149	Logical output signal 3 selection 2	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
₽	C150	Logical output signal 3 operator selection	00 (AND), 01 (OR), 02 (XOR)	00	00	00	00	×	0
<u>.</u>	C151	Logical output signal 4 selection 1	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
erat	C152	Logical output signal 4 selection 2	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
d	C153	Logical output signal 4 operator selection	00 (AND), 01 (OR), 02 (XOR)	00	00	00	00	×	0
Output terminal operation	C154	Logical output signal 5 selection 1	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
Ē	C155	Logical output signal 5 selection 2	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
± e	C156	Logical output signal 5 operator selection	00 (AND), 01 (OR), 02 (XOR)	00	00	00	00	×	0
₽	C157	Logical output signal 6 selection 1	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
ರ	C158	Logical output signal 6 selection 2	Same as the settings of C021 to C026 (except those of LOG1 to LOG6)	00	00	00	00	×	0
	C159	Logical output signal 6 operator selection	00 (AND), 01 (OR), 02 (XOR)	00	00	00	00	×	0
- g	C160	Input terminal response time setting 1	0. to 200. (×2ms)	1	1	1	1	×	0
response	C161	Input terminal response time setting 2	0. to 200. (×2ms)	1	1	1	1	×	0
g	C162	Input terminal response time setting 3	0. to 200. (×2ms)	1	1	1	1	×	0
<u>e</u>	C163	Input terminal response time setting 4	0. to 200. (×2ms)	1	1	1	1	×	0
Па	C164	Input terminal response time setting 5	0. to 200. (×2ms)	1	1	1	1	×	0
terminal	C165	Input terminal response time setting 6	0. to 200. (×2ms)	1	1	1	1	×	0
<u>ē</u>	C166	Input terminal response time setting 7	0. to 200. (×2ms)	1	1	1	1	×	0
Input	C167	Input terminal response time setting 8	0. to 200. (×2ms)	1	1	1	1	×	0
⊑	C168	Input terminal response time setting FW	0. to 200. (×2ms)	1	1	1	1	×	0
other	C169	Multistage speed/position determination time	0. to 200. (×10ms)	0	0	0	0	×	0

OH GROUP: MOTOR CONSTANTS FUNCTIONS

[O= Allowed X= Not permitted]

Code		Function Name	Monitored data or setting		Default SJ700 -FU(UL)	Setting -F(JP)	L700	Setting during operation (allowed or not)	Change during operation (allowed or not)
	H001	Auto-tuning Setting	00 (disabling auto-tuning), 01 (auto-tuning without rotation), 02 (auto-tuning with rotation)	00	00	00	00	×	×
	H002	Motor data selection, 1st motor	00 (Hitachi standard data), 01 (auto-tuned data), 02 (auto-tuned data [with online auto-tuning function])	00	×	×			
	H202	Motor data selection, 2nd motor	00 (Hitachi standard data), 01 (auto-tuned data), 02 (auto-tuned data [with online auto-tuning function])	00	00	00	00	×	×
	H003	Motor capacity, 1st motor	SJ700:0.20 to 400.0 (kW)/L700:0.20 to 160(kW)		Facto	n, cot		×	×
	H203	Motor capacity, 2nd motor	SJ700:0.20 to 400.0 (kW)/L700:0.20 to 160(kW)		Facio	ry set		×	×
	H004	Motor poles setting, 1st motor	2, 4, 6, 8, 10 (poles)	4	4	4	4	×	×
	H204	Motor poles setting, 2nd motor	2, 4, 6, 8, 10 (poles)	4	4	4	4	×	×
	H005	Motor speed constant, 1st motor	0.001 to 9.999, 10.00 to 80.00 (10.000 to 80.000)	1,590	1,590	1,590	1,590	0	0
	H205	Motor speed constant, 2nd motor	0.001 to 9.999, 10.00 to 80.00 (10.000 to 80.000)	1,590	1,590	1,590	1,590	0	0
	H006	Motor stabilization constant, 1st motor	0. to 255.	100.	100.	100.	100.	0	0
	H206	Motor stabilization constant, 2nd motor	0. to 255.	100.	100.	100.	100.	0	0
ठ	H306	Motor stabilization constant, 3rd motor	0. to 255.	100.	100.	100.	100.	0	0
constants	H020	Motor constant R1, 1st motor	0.001 to 9.999, 10.00 to 65.53 (Ω) (*1)					×	×
ust	H220	Motor constant R1, 2nd motor	0.001 to 9.999, 10.00 to 65.53 (Ω) (*1)					×	×
8	H021	Motor constant R2, 1st motor	0.001 to 9.999, 10.00 to 65.53 (Ω) (*1)					×	×
2	H221	Motor constant R2, 2nd motor	0.001 to 9.999, 10.00 to 65.53 (Ω) (*1)					×	×
Control	H022	Motor constant L, 1st motor	0.01 to 99.99, 100.0 to 655.3 (mH) (*2)				×	×	
Ö	H222	Motor constant L, 2nd motor	0.01 to 99.99, 100.0 to 655.3 (mH) (*2)				×	×	
	H023	Motor constant lo 0.01 to 99.99, 100.0 to 655.3 (A) (*3)						×	×
	H223	Motor constant lo, 2nd motor	0.01 to 99.99, 100.0 to 655.3 (A) (*3)						×
	H024	Motor constant J	onstant J 0.001 to 9.999, 10.00 to 99.99, 100.0 to 999.9, 1000. to 9999.						×
	H224			Danas dias as				×	×
	H030	Auto constant R1, 1st motor	0.001 to 9.999, 10.00 to 65.53 (Ω) (*1)		Depend			×	×
	H230	Auto constant R1, 2nd motor	0.001 to 9.999, 10.00 to 65.53 (Ω) (*1)		motor c	араспу		×	×
	H031	Auto constant R2, 1st motor	0.001 to 9.999, 10.00 to 65.53 (Ω) (*1)					×	×
	H231	Auto constant R2, 2nd motor	0.001 to 9.999, 10.00 to 65.53 (Ω) (*1)					×	×
	H032	Auto constant L, 1st motor	0.01 to 99.99, 100.0 to 655.3 (mH) (*2)					×	×
	H232	Auto constant L, 2nd motor	0.01 to 99.99, 100.0 to 655.3 (mH) (*2)					×	×
	H033	Auto constant lo, 1st motor	0.01 to 99.99, 100.0 to 655.3 (A) (*3)					×	×
	H233	Auto constant lo, 2nd motor	0.01 to 99.99, 100.0 to 655.3 (A) (*3)					×	×
	H034	Auto constant J, 1st motor	0.001 to 9.999, 10.00 to 99.99, 100.0 to 999.9, 1000. to 9999.					×	×
	H234	Auto constant J, 2nd motor	0.001 to 9.999, 10.00 to 99.99, 100.0 to 999.9, 1000. to 9999.					×	×
	H050	PI proportional gain for 1st motor	0.0 to 999.9, 1000.	100.0	100.0	100.0	100.0	0	0
	H250	PI proportional gain for 2nd motor	0.0 to 999.9, 1000.	100.0	100.0	100.0	100.0	0	0
	H051	PI integral gain for 1st motor	0.0 to 999.9, 1000.	100.0	100.0	100.0	100.0	0	0
	H251	PI integral gain for 2nd motor	0.0 to 999.9, 1000.	100.0	100.0	100.0	100.0	0	0
nts	H052	P proportional gain setting for 1st motor	0.01 to 10.00	1.00	1.00	1.00	1.00	0	0
sta	H252	P proportional gain setting for 2nd motor	0.01 to 10.00	1.00	1.00	1.00	1.00	0	0
ä	H060	Zero LV Imit for 1st motor	0.0 to 100.0	100.	100.	100.	×	0	0
Control constants	H260	Zero LV Imit for 2nd motor	0.0 to 100.0	100.	100.	100.	X	0	0
of tr	H061	Zero LV starting boost current for 1st motor	0. to 50. (%)	50.	50.	50.	×	0	0
Š	H261	Zero LV starting boost current for 2nd motor	0. to 50. (%)	50.	50.	50.	X	0	0
J	H070	Terminal selection PI proportional gain setting	0.0 to 999.9, 1000.	100.0	100.0	100.0	100.0	0	Ö
	H071	Terminal selection PI integral gain setting	0.0 to 999.9, 1000.	100.0	100.0	100.0	100.0	Ō	Ō
	H072	Terminal selection P proportional gain setting	0.00 to 10.00	1.00	1.00	1.00	1.00	0	0
	H073			100.	100.	100.	100.	Ō	Ō
/*·1	1050	2200HE 3150HE and 4000HE:0 1 to 999							

^{(*1)1850}HF,2200HF,3150HF and 4000HF:0.1 to 999.9, 1000. to 6553.(m Ω)

^{(*2)1850}HF,2200HF,3150HF and 4000HF:0.001 to 9.999, 10.00 to 65.53(mH) (*3)1850HF,2200HF,3150HF and 4000HF:0.01 to 0.35, "rated current"(A)

P GROUP: EXPANSION CARD FUNCTIONS

[O= Allowed X= Not permitted]

			Monitored data or setting		Default Setting			Setting	Change
(Code	Function Name			SJ700		L700	during operation (allowed or not)	during operation (allowed or not)
					-FU(UL)	-F(JP)		(allowed or not)	
	P001	Operation mode on expansion card 1 error	00 (tripping), 01 (continuing operation)	00	00	00	00	×	0
	P002	Operation mode on expansion card 2 error	00 (tripping), 01 (continuing operation)	00	00	00	00	×	0
	P011	Encoder pulse-per-revolution (PPR) setting	128. to 9999., 1000 to 6500 (10000 to 65000) (pulses)	1024	1024	1024	×	×	×
	P012	Control pulse setting	00 (ASR), 01 (APR), 02 (APR2), 03 (HAPR)	00	00	00	×	×	×
	P013	Pulse input mode setting	00 (mode 0), 01 (mode 1), 02 (mode 2)	00	00	00	×	×	×
	P014	Home search stop position setting	0. to 4095.	0.	0.	0.	×	×	0
	P015	Home search speed setting	"start frequency" to "maximum frequency" (up to 120.0) (Hz)	5.00	5.00	5.00	×	×	0
	P016	Home search direction setting	00 (forward), 01 (reverse)	00	00	00	×	×	×
	P017	Home search completion range setting	0. to 9999., 1000 (10000) (pulses)	5.	5.	5.	×	×	0
	P018	Home search completion delay time setting	0.00 to 9.99 (s)	0.00	0.00	0.00	×	×	0
	P019	Electronic gear set position selection	00 (feedback side), 01 (commanding side)	00	00	00	×	×	0
	P020	Electronic gear ratio numerator setting	0. to 9999.	1.	1.	1.	×	×	0
	P021	Electronic gear ratio denominator setting	0. to 9999.	1.	1.	1.	×	×	×
	P022	Feed-forward gain setting	0.00 to 99.99, 100.0 to 655.3	0.00	0.00	0.00	×	×	0
	P023	Position loop gain setting	0.00 to 99.99, 100.0	0.50	0.50	0.50	×	×	0
	P024	Position bias setting	-204 (-2048.) / -999. to 2048	0.	0.	0.	×	×	0
	P025	Temperature compensation thermistor enable	00 (no compensation), 01 (compensation)	00	00	00	00	×	0
드		Over-speed error detection level setting	0.0 to 150.0 (%)	135.0	135.0	135.0	×	×	0
function	P027	Speed deviation error detection level setting	0.00 to 99.99, 100.0 to120.0 (Hz)	7.50	7.50	7.50	×	×	×
딆	P028	Numerator of motor gear ratio	0. to 9999.	1.	1.	1.	×	×	0
=	P029	Denominator of motor gear ratio	0. to 9999.	1.	1.	1.	×	×	0
operation	P031	Accel./decel. time input selection	00 (digital operator), 01 (option 1), 02 (option 2), 03 (easy sequence)	00	00	00	00	×	×
ě	P031	Positioning command input selection	00 (digital operator), 01 (option 1), 02 (option 2)	00	00	00	×	×	0
o	D022			00	00	00	×	×	×
필	P033	Torque command input selection	00 (O terminal), 01 (OI terminal), 02 (O2 terminal), 03 (digital operator)	0.	0.	0.	×	Ô	Ô
Ē	P034	Torque command setting	0. to 200. (%)	0.	U.	U.		0	
Output terminal	P035	Polarity selection at the torque command input via O2 terminal	00 (as indicated by the sign), 01 (depending on the operation direction)		00	00	×	×	×
ם	P036	Torque bias mode	00 (disabling the mode), 01 (digital operator), 02 (input via O2 terminal)	00	00	00	×	×	×
ರ	P037	Torque bias value	-200. to +200. (%)	0.	0.	0.	×	0	0
	P038	Torque bias polarity selection	00 (as indicated by the sign), 01 (depending on the operation direction)	00	00	00	×	×	×
	P039	Speed limit for torque-controlled operation (forward rotation)	0.00 to "maximum frequency" (Hz)	0.00	0.00	0.00	×	0	0
	P040	Speed limit for torque-controlled operation (reverse rotation)	0.00 to "maximum frequency" (Hz)	0.00	0.00	0.00	×	0	0
	P044	DeviceNet comm watchdog timer	0.00 to 99.99 (s)	1.00	1.00	1.00	1.00	×	×
	P045	Inverter action on DeviceNet comm error	00 (tripping), 01 (tripping after decelerating and stopping the motor), 02 (ignoring errors), 03 (stopping the motor after free-running), 04 (decelerating and stopping the motor)	01	01	01	01	×	×
	P046	DeviceNet polled I/O : Output instance number	20, 21, 100	21	21	21	21	×	×
	P047	DeviceNet polled I/O : input instance number	70, 71, 101	71	71	71	71	×	×
	P048	Inverter action on DeviceNet idle mode	00 (tripping), 01 (tripping after decelerating and stopping the motor), 02 (ignoring errors), 03 (stopping the motor after free-running), 04 (decelerating and stopping the motor)	01	01	01	01	×	×
	P049	DeviceNet motor poles setting for RPM	0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38 (poles)	00	00	00	00	×	×
	P055	Pulse-string frequency scale	1.0 to 50.0 (kHz)	25.0	25.0	25.0	25.0	×	0
	P056	Time constant of pulse-string frequency filter	0.01 to 2.00 (s)	0.10	0.10	0.10	0.10	×	Ö
	P057	Pulse-string frequency bias	-100. to +100. (%)	0.	0.	0.	0.	×	Ö
	P058	Pulse-string frequency limit	0. to 100. (%)	100.	100.	100.	100.	×	0
_	DOCO	1 diec ouring rioquericy innit	Position setting range reverse side – forward side						_
Absolute position control	P067	Multistage position setting 0-7	(upper 4 digits including "-")	0	0	0	×	0	0
Ö	P068	Zero-return mode selection	00(Low) / 01 (Hi1) / 00 (Hi2)	00	00	00	×	0	0
<u>.</u>	P069	Zero-return direction selection	00 (FW) / 01 (RV)	00	00	00	×	0	0
SO	P070	Low-speed zero-return frequency	0.00 – 10.00 (Hz)	0.00	0.00	0.00	×	0	0
e o	P071	High-speed zero-return frequency	0.00 - 99.99 / 100.0 - Maximum frequency setting, 1st motor (Hz)	0.00	0.00	0.00	×	0	0
Ę	P072	Position range specification (forward)	0 – 268435455 (when P012 = 02) 0 – 1073741823 (When P012 = 03) (upper 4 digits)		843545		X	0	0
psc	P073	Position range specification (reverse)	-268435455 – 0 (when P012 = 02) -1073741823 - 0 (When P012 = 03) (upper 4 digits)		6843545		×	0	0
	1 07 1	Teaching selection	00 (X00) / 01 (X01) / 02 (X02) / 03 (X03) /04 (X04) / 05 (X05) / 06 (X06) / 07 (X07)	00	00	00	×	0	0
ecuences	P100 I P131	Easy sequence user parameter U (00)-(31)	0. to 9999., 1000 to 6553 (10000 to 65535)	0.	0.	0.	0.	0	0

OU GROUP: USER-SELECTABLE MENU FUNCTIONS

[O= Allowed X= Not permitted]

	• • • • • • • • • • • • • • • • • • • •		[O- Allowed V- Not belillifted]							
Code			Monitored data or setting		Default	Setting	J	Setting	Change	
		Function Name			SJ700 1.			during operation during opera		
					-FU(UL)	-F(JP)	L/00	(allowed or flot)	(allowed or not)	
	U001 P012	User selected functions 1-12	no/d001 to P131	no	no	no	no	0	0	

PROTECTIVE FUNCTIONS

Name	Cause(s)		Display on digital operator	Display on remote operator/copy unit
		While at constant speed	E0 1	OC.Drive
0	The inverter output was short-circuited, or the motor shaft is locked or has a	During deceleration	E02	OC.Decel
Over-current protection	heavy load. These conditions cause excessive current for the inverter, so the inverter output is turned off.	During acceleration	E03	OC.Accel
		Others	E04	Over.C
Overload protection(*1)	When a motor overload is detected by the electronic thermal function, the involupt.	verter trips and turns off its	E05	Over.L
Braking resistor overload protection	When the regenerative braking resistor exceeds the usage time allowance or an stop of the BRD function is detected, the inverter trips and turns off its output.	over-voltage caused by the	E06	OL.BRD
Over-voltage protection	When the DC bus voltage exceeds a threshold, due to regenerative energy from and turns off its output.	the motor, the inverter trips	EOT	Over.V
EEPROM error(*2)	When the built-in EEPROM memory has problems due to noise or excessive te and turns off its output.	mperature, the inverter trips	E08	EEPROM
Under-voltage error	A decrease of internal DC bus voltage below a threshold results in a control circulaso generate excessive motor heat or cause low torque. The inverter trips and t		E09	Under.V
CT(Current transformer) error	If a strong source of electrical interference is close to the inverter or abnormbuilt-in CT, the inverter trips and turns off its output.	nal operations occur in the	E 10	CT
CPU error	When a malfunction in the built-in CPU has occurred, the inverter trips and turns	off its output.	E 1 1	CPU
External trip	When a signal to an intelligent input terminal configured as EXT has occurred, off its output.	the inverter trips and turns	E 12	EXTERNAL
USP error	An error occurs when power is cycled while the inverter is in RUN mode if the (USP) is enabled. The inverter trips and does not go into RUN mode until the err		E 13	USP
Ground fault	The inverter is protected by the detection of ground faults between the inverter power-up tests. This feature protects the inverter only.	EIH	GND.Flt.	
Input over-voltage protection	When the input voltage is higher than the specified value, it is detected 60 secon inverter trips and turns of its output.	E 15	OV.SRC	
Instantaneous power failure	When power is cut for more than 15ms, the inverter trips and turns off its outputhe error will be cleared. The inverter restarts if it is in RUN mode when power is	E 16	Inst.P-F	
Temperature error due to low cooling-fan speed	The inverter will display the error code shown on the right if the lowering of cool the occurrence of the temperature error described below.	E20	OH.stFAN	
Inverter thermal trip	When the inverter internal temperature is higher than the specified value, the th module detects the higher temperature of the power devices and trips, turning of	E2 I	OH FIN	
Gate array error	Communication error has occurred between CPU and gate array.		E23	GA.COM
Phase loss detection	One of three lines of 3-phase power supply is missing.		E24	PH.Fail
Main circuit error (*3)	The inverter will trip if the gate array cannot confirm the on/off state of IGBT be to noise or damage to the main circuit element.	ecause of a malfunction due	<u> 825</u>	Main.Cir
Cooling-fan speed drop signal	If the rotation speed of the internal cooling fan decreases so that the coolin output turns OFF for protection.(available only for SJ700 1850-4000)	ng effect decreases,inverter	E29	Fan. Slow
IGBT error	When an instantaneous over-current has occurred, the inverter trips and turns of circuit element.	off its output to protect main	E 30	IGBT
Thermistor error	When the thermistor inside the motor detects temperature higher than the specifiand turns off its output.	ied value, the inverter trips	E 35	TH
Braking error (*5)	The inverter turns off its output when it can not detect whether the braking is Of set at b024 after it has released the brake. (When braking is enabled at b120)		E 36	BRAKE
Emergency stop (*4)	If the EMR signal (on three terminals) is turned on when the slide switch (SW1) on, the inverter hardware will shut off the inverter output and display the error of	ode shown on the right.	E37	EMR
Low-speed overload protection	If overload occurs during the motor operation at a very low speed at 0.2 Hz or less, the circuit in the inverter will detect the overload and shut off the inverter output. (2nd electr (Note that a high frequency may be recorded as the error history data.)		<u>E 38</u>	OL-LowSP
Modbus communication error	If timeout occurs because of line disconnection during the communication in Mod will display the error code shown on the right. (The inverter will trip according to the		ЕЧІ	NET.ERR
Out of operation due to under-voltage	Due to insufficient voltage, the inverter has turned off its output and been trying t restart. If it fails to restart, it goes into the under-voltage error.	to		UV.WAIT
			E43	PRG.CMD
Easy sequence function Error	Error indications by protective functions with the easy sequence function used.		E44	PRG.NST
			E45	PRG.ERR1
Expansion card 1 connection error	An error has been detected in an expansion card or at its connecting terminals.		E60~E69	OP1-0 ~ OP1-9
Expansion card 2 connection error	to thinking to thinking to thinking to thinking to thinking to the same of the		E70~E79	OP2-0 ~ OP2-9

(*1): Reset operation is acceptable 10 seconds after the trip.(185kW and over:90seconds)
(*2): Check the parameters when EEPROM error occurs.
(*3): The inverter will not accept the reset command entered from the dioperator. Therefore, reset the inverter by turning on the RS terminal.
(*3): The inverter will not accept the reset commands input via the RS terminal or entered by the STOP/RESET key. Therefore, turn off the inverter power.
(*5): L700 series: The function is not provided.

(Status Display)

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
0	Reset	2	Deceleration	4	Acceleration	6	Starting	8	Overload Restriction
1	Stop	3	Constant Speed	5	f0 Stop	7	DB	9	Forcible or servo-on

(How to access the details about the present fault)









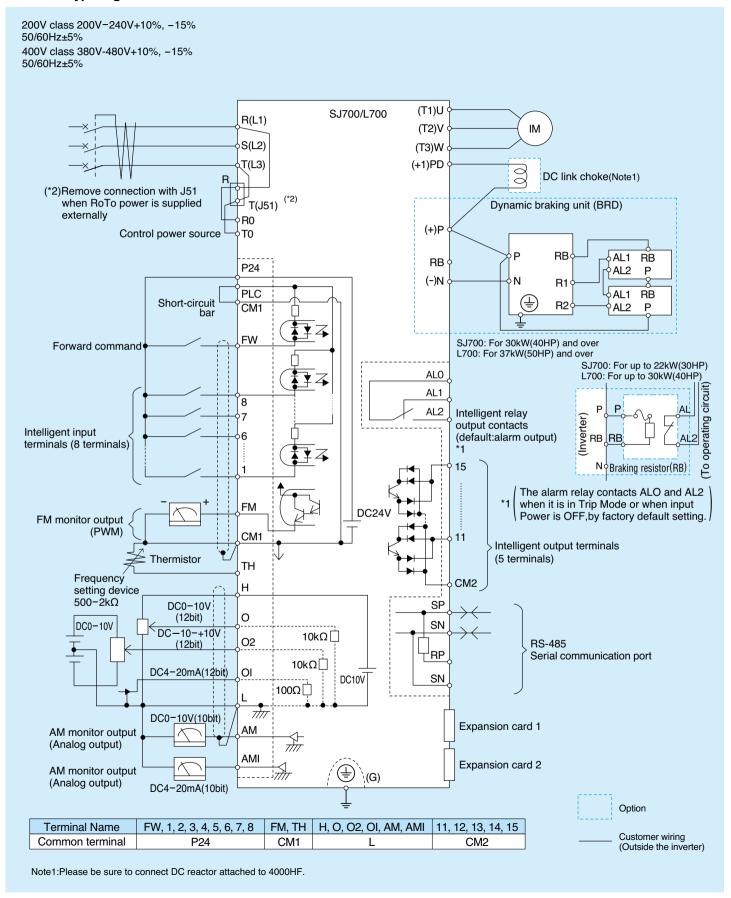




Cumulative inverter RUN time at trip point Cumulative power-on time at trip point Voltage between P(+) and N(-) at trip point

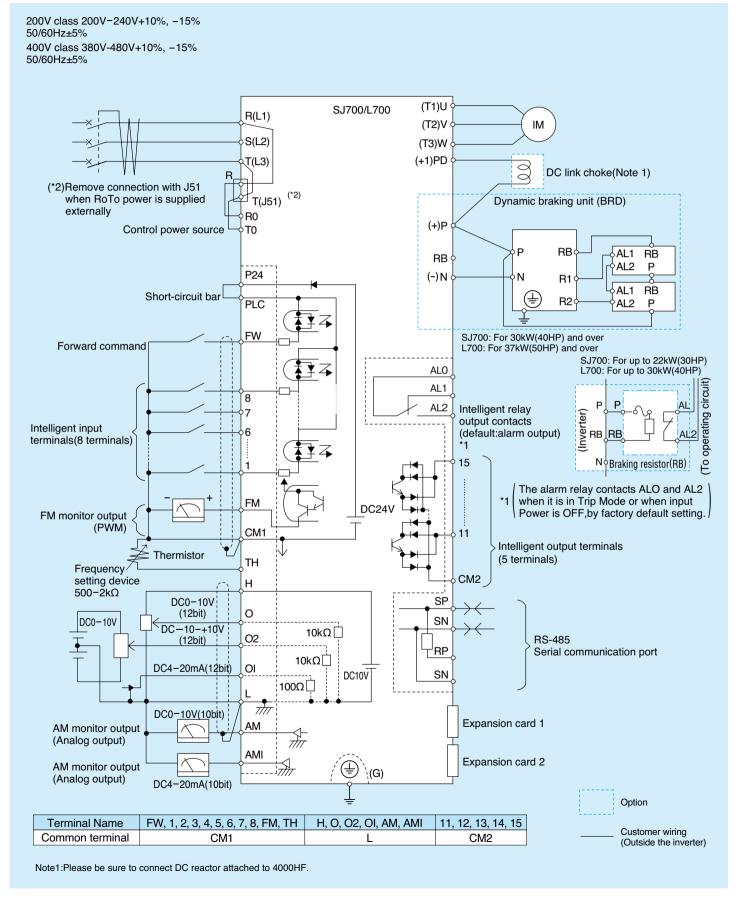
CONNECTING DIAGRAM

Source type logic



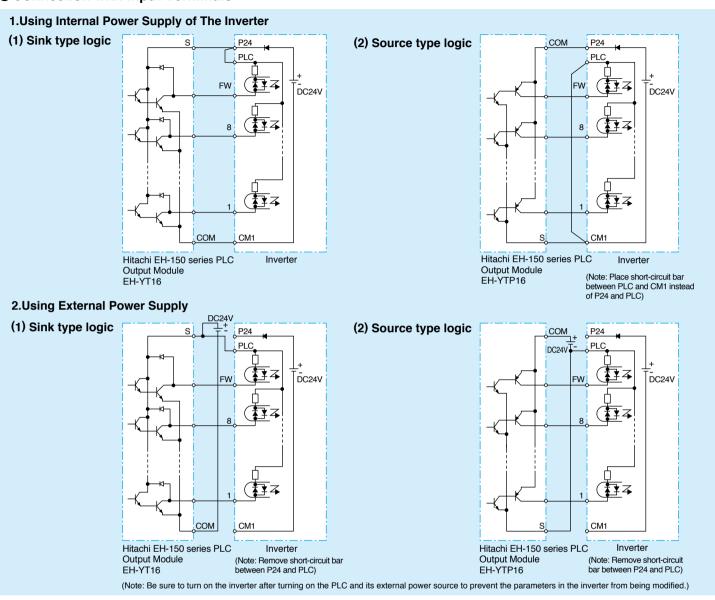
CONNECTING DIAGRAM

Sink type logic

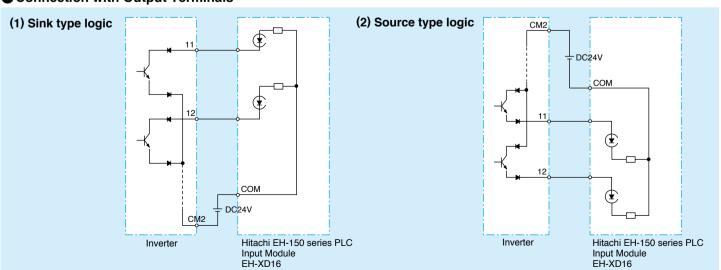


CONNECTING TO PLC

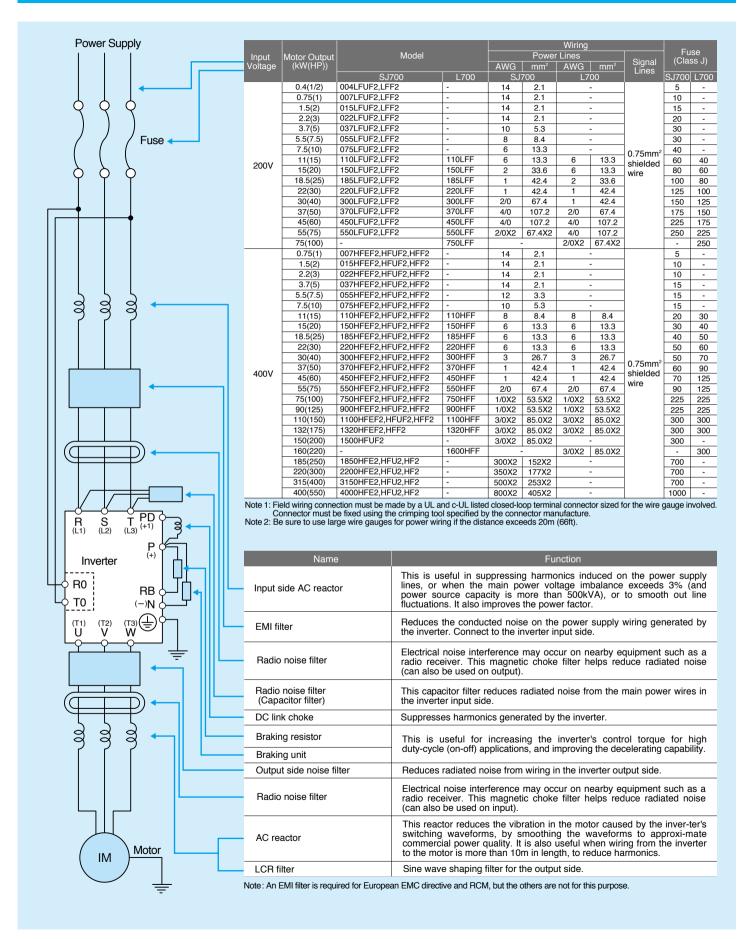
Connection with Input Terminals



Connection with Output Terminals



WIRING and ACCESSORIES



DIFFERENCE and COMPATIBILITY of SJ300 series and SJ700 series

		Items		SJ300 series	SJ700 series			
Copying the parameter settings				you can copy the parameter settings from the SJ300 s (you cannot copy the parameter settings from the Si series has many new functions and additional parame	J700 series to the SJ300 series because the SJ700			
Parameter display mode.				No display mode selection. (full display)	Basic display mode/Data comparison function addition. Note:basic display mode [factory setting]) To display all parameters, specify "00" for "b037".			
		Retry or trip paramet	er	Instantaneous power failure/under-voltage/ overvoltage/overcurrent:lt sets up by b001.	Instantaneous power failure/under-voltage:It sets up by b001. overvoltage/overcurrent:It sets up by b008.			
		d001: Output frequency mod007: Scaled output frequen	Ü	you can not change the output frequency setting by using the \triangle and/or ∇ key.	you can not change the output frequency setting by using the \triangle and/or ∇ key.			
Change fu	nction	A016:External frequentime const.	ency filter	Default:8	Default:31 Note 1			
		A038:Jog frequency	setting	Setting range:0 to 9.99Hz	Setting range: 0.01 to 9.99Hz(0Hz setup is impossible)			
		A105:[OI]-[L] input st frequency enable	art	Default:01(0Hz)	Default:00(external start frequency)			
		b012, b212, b312: Electronic thermal fu	nction	Setting upper limit:120%	Setting upper limit:100%			
		C025:Terminal [15] for	unction	Default:08(instantaneous power failure)	Default:40(cooling-fan speed drop)			
	Control	Removable		Removable	Removable (You can mount the SJ300 series into the SJ700 series.)			
	Circuit	Position		Other model:same position. 055L/H:5mm upper part from SJ300. 300L/H:97mm upper part from SJ300.				
			110L/H	M6(Ground Screw)	M5(Ground Screw)			
			300L	M8(Ground Screw)	M6(Ground Screw)			
		Screw diameter	450L	M10	M8			
Terminal			370H	M6	M8			
	Main Circuit	Position		055 to 110L/H:10mm upper part from SJ300. 150 to 300L/H:20mm upper part from SJ300.550L:30mm upper part from SJ300. Other model:same position.				
		Arrangement		055 to 110L/H:Two steps, 150 to 550L/H:One step				
		Others		150 to 220L/H:RB there is not a terminal.	150 to 220L/H:RB there is a terminal.			
asv-remo	ovable Dc bu	us Capacitor		All the models are possible.	15kW or more is possible.			
-	Brake circuit	•		up to 11kW	up to 22kW			
y 24 2		055L		17	16			
		075L		17	10			
/linimum v		110L		17	10			
esistor(Ω)	1	055H		50	35			
		075H		50	35			
		Installation		055L/H: SJ700 is in next larger enclosure vs. SJ300. A	All other models are the same enclosure size.			
	IS	External radiating fin		055L/H:Those with no compatibility.075 to 550L/H:Tho	se with compatibility. Note 2			
Dimension		004~037L/H		7.5mm	1.2mm			
Board thick				7.5mm 13.6mm				
Board thick		055~110L/H						
Board thicknstallation		055~110L/H		7.5mm 055L/H:5mm upper part from SJ300. 300L/H:97mm up Other model:same position.				
Board thick	l	055~110L/H		055L/H:5mm upper part from SJ300. 300L/H:97mm սր				
Board thick	l	055~110L/H on		055L/H:5mm upper part from SJ300. 300L/H:97mm up Other model:same position. Those with compatibility.				
Board thick nstallation Digital ope	erator positio	055~110L/H on SJ-DG		055L/H:5mm upper part from SJ300. 300L/H:97mm up Other model:same position. Those with compatibility. Those with compatibility.	oper part from SJ300.			
Dimension Board thick installation Digital ope Option boa	erator positio	055~110L/H on SJ-DG SJ-FB		O55L/H:5mm upper part from SJ300. 300L/H:97mm up Other model:same position. Those with compatibility. Those with compatibility. Note:Since the SJ700 series has many new functions some functions of the SJ-DN, SJ-LW, and SJ-PBT (op	oper part from SJ300. and additional parameters, tion boards conforming to the open network			
Board thick installation Digital ope	erator positio	SJ-DG SJ-DB SJ-DN/SJ-DN2		055L/H:5mm upper part from SJ300. 300L/H:97mm up Other model:same position. Those with compatibility. Those with compatibility. Note:Since the SJ700 series has many new functions	oper part from SJ300. and additional parameters, tion boards conforming to the open network			

Note1:Since a response falls the V/F characteristic curve selection SLV should make this setup small. Note2:370, 450L/H and 550H:Metal fittings differ.

DIFFERENCE and COMPATIBILITY of L300P series and L700 series

		Items		L300P series	L700 series			
Copying the parameter settings				You can copy the parameter settings from the L300P (You cannot copy the parameter settings from the L70 has many new functions and additional parameters.)	series into the L700 series. 0 series to the L300P series because the L700 series			
Parameter display mode.		No display mode selection. (full display)	Basic display mode/Data comparison function addition. Note:basic display mode [factory setting])To display all parameters, specify "00" for "b037".					
		Retry or trip paramet	er	Instantaneous power failure/under-voltage/ overvoltage/overcurrent:It sets up by b001.	Instantaneous power failure/under-voltage:It sets up by b001. overvoltage/overcurrent:It sets up by b008.			
		d001:Output frequency r d007:Scaled output freq		You can not change the output frequency setting by using the up and or down key.	You can not change the output frequency setting by using the up and or down key.			
		A001: Frequency source se	etting	Default:00 (Keypad potentiometer on digital operator)	Default:02 (Digital operator)			
Change fur	nction	A016: External frequency filt	er time const.	Default:8	Default:31 Note 1			
		A038:Jog frequency	setting	Setting range:0 to 9.99Hz	Setting range: 0.01 to 9.99Hz(0Hz setup is impossible)			
		A105: [OI]-[L] input start freq	uency enable	Default:01(0Hz)	Default:00(external start frequency)			
		b012, b212, b312: Electronic thermal fu	nction	Setting upper limit:120%	Setting upper limit:100%			
		b013, b213, b313: Electronic thermal ch	aracteristic	Default:00 (reduced-torque characteristic)	Default:01 (constant-torque characteristic)			
		b092:Cooling fan control		Default:00 (always operating the fan)	Default:01 (operating the fan only during inverter operation [including 5 minutes after power-on and power-off])			
		b095:Dynamic braking control		Default:00 (disabling)	Default:01 (enabling [disabling while the motor is topped])			
		Removable		Removable	Removable (You can mount the L300P into the L700 .)			
	Control circuit	Intelligent input terminals		5 terminals	8 terminals			
		Intelligent output terminals		2 terminals(Relay)	5 terminals(Open collector)			
		Position		370L/H:97mm upper part from L300P. Other model:same position.				
			150L/H	M6(Ground Screw)	M5(Ground Screw)			
Terminal		Screw diameter	370L	M8(Ground Screw)	M6(Ground Screw)			
			550L	M10	M8			
	Main		450H	M6	M8			
	circuit	Position		110,150LF/HF:10mm upper part from L300P. 185 to 370L/H:20mm upper part from L300P. 750L:30mm upper part from L300P. Other model:same position.				
		Others		185 to 300L/H:RB there is not a terminal.	185 to 300L/H:RB there is a terminal.			
Easy-remo	vable Dc bı	us Capacitor		All the models are possible.	18.5kW or more is possible.			
Dynamic B	rake circuit			Up to 15kW	Up to 30kW			
		110L		17	10			
Minimum v	alue of	150L		17	10			
esistor(Ω)		110H		50	35			
		150H		50	35			
		Installation		All models are the same enclosure size.				
Dimension	S	External radiating fin		Those with compatibility. Note 2				
Board thick nstallation		110~150L/H		7.5mm	13.6mm			
Digital ope	rator positio	n		300L/H:97mm upper part from L300P. Other model:same position.				
Keypad po	tentiometer	on digital operator		Yes.	No.(Option)			
		SJ-DG		Those with compatibility.				
		SJ-DN/SJ-DN2		Those with compatibility. Note:Since the L700 series has many new function	ns and additional parameters.some functions of the			
Option boa	rds	SJ-LW		SJ-DN, SJ-LW, and SJ-PBT(option boards conforr implemented on the L700 series.				
		SJ-PBT		SJ-DN2 has compatibility to SJ700.				
		Option position		370L/H:97mm upper part from L300P. Other model:same position.				

Note1:Since a response falls the V/F characteristic curve selection SLV should make this setup small. Note2:450, 550L/H and 750H:Metal fittings differ.

FOR CORRECT OPERATION

Application to Motors

[Application to general-purpose motors]

Operating frequency	The overspeed endurance of a general-purpose motor is 120% of the rated speed for 2 minutes (JIS C4,004). For operation at higher than 60Hz, it is required to examine the allowable torque of the motor, useful life of bearings, noise, vibration, etc. In this case, be sure to consult the motor manufacturer as the maximum allowable rpm differs depending on the motor capacity, etc.
Torque characteristics	The torque characteristics of driving a general-purpose motor with an inverter differ from those of driving it using commercial power (starting torque decreases in particular). Carefully check the load torque characteristic of a connected machine and the driving torque characteristic of the motor.
Motor loss and temperature increase	An inverter-driven general-purpose motor heats up quickly at lower speeds. Consequently, the continuous torque level (output) will decrease at lower motor speeds. Carefully check the torque characteristics vs speed range requirements.
Noise	When run by an inverter, a general-purpose motor generates noise slightly greater than with commercial power.
Vibration	When run by an inverter at variable speeds, the motor may generate vibration, especially because of (a) unbalance of the rotor including a connected machine, or (b) resonance caused by the natural vibration frequency of a mechanical system. Particularly, be careful of (b) when operating at variable speeds a machine previously fitted with a constant speed motor. Vibration can be minimized by (1) avoiding resonance points using the frequency jump function of the inverter, (2) using a tire-shaped coupling, or (3) placing a rubber shock absorber beneath the motor base.
Power transmission mechanism	Under continued, low-speed operation, oil lubrication can deteriorate in a power transmission mechanism with an oil-type gear box (gear motor) or reducer. Check with the motor manufacturer for the permissible range of continuous speed. To operate at more than 60 Hz, confirm the machine's ability to withstand the centrifugal force generated.

[Application to special motors]

Gear motor	The allowable rotation range of continuous drive varies depending on the lubrication method or motor manufacturer. (Particularly in case of oil lubrication, pay attention to the low frequency range.)
Brake-equipped motor	For use of a brake-equipped motor, be sure to connect the braking power supply from the primary side of the inverter.
Pole-change motor	There are different kinds of pole-change motors (constant output characteristic type, constant torque characteristic type, etc.), with different rated current values. In motor selection, check the maximum allowable current for each motor of a different pole count. At the time of pole changing, be sure to stop the motor. Also see: Application to the 400V-class motor.
Submersible motor	The rated current of a submersible motor is significantly larger than that of the general-purpose motor. In inverter selection, be sure to check the rated current of the motor.
Explosion-proof motor	Inverter drive is not suitable for a safety-enhanced explosion-proof type motor. The inverter should be used in combination with a pressure-proof explosion-proof type of motor. *Explosion-proof verification is not available for SJ700 Series.
Synchronous (MS) motor High-speed (HFM) motor	In most cases, the synchronous (MS) motor and the high-speed (HFM) motor are designed and manufactured to meet the specifications suitable for a connected machine. As to proper inverter selection, consult the manufacturer.
Single-phase motor	A single-phase motor is not suitable for variable-speed operation by an inverter drive. Therefore, use a three-phase motor.

[Application to the 400V-class motor]

A system applying a voltage-type PWM inverter with IGBT may have surge voltage at the motor terminals resulting from the cable constants including the cable length and the cable laying method. Depending on the surge current magnification, the motor coil insulation may be degraded. In particular, when a 400V-class motor is used, a longer cable is used, and critical loss can occur, take the following countermeasures:

- (1) install the LCR filter between the inverter and the motor.
- (2) install the AC reactor between the inverter and the motor, or
- (3) enhance the insulation of the motor coil.

Notes on Use

[Drive]

Run/Stop	Run or stop of the inverter must be done with the keys on the operator panel or through the control circuit terminal. Do not operate by installing a electromagnetic contactor (Mg) in the main circuit.
Emergency motor stop	When the protective function is operating or the power supply stops, the motor enters the free run stop state. When an emergency stop is required or when the motor should be kept stopped, use of a mechanical brake should be considered.
High-frequency run	A max. 400Hz can be selected on the SJ700 and L700 Series. However, a two-pole motor can attain up to approx. 24,000 rpm, which is extremely dangerous. Therefore, carefully make selection and settings by checking the mechanical strength of the motor and connected machines. Consult the motor manufacturer when it is necessary to drive a standard (general-purpose) motor above 60 Hz. A full line of high-speed motors is available from Hitachi.

[About the load of a frequent repetition use]

About frequent repetition use (crane, elevator, press, washing machine), a power semiconductor (IGBT, a rectification diode, thyristor) in the inverter may come to remarkably have a short life by heat exhaustion.

The life can be prolonged by lower a load electric current. Lengthen acceleration / deceleration time. Lower carrier frequency. or increasing capacity of the inverter

[About the use in highlands beyond 1,000m above sea level]

When the standard inverter is used at a place beyond 1,000m above sea level because it cool heating element with air, please be careful as follows. But please inquire for the highlands more than 2,500m separately.

1. Reduction of the inverter rating current

The density of air decreases by 1% whenever rising by 100m when the altitude exceeds 1000m.

For example, in the case of 2,000m above sea level, it is {2,000(m) -Because it becomes 1,000(m)}/100(m) X {-1(%)} =-10(%), please use with 10(%) reduction (0.9* inverter rating electric current) of a rating current of the inverter.

2. Reduction of the breakdown voltage

When using inverter at a place beyond 1,000m, the breakdown voltage decreases as follows.

1,000m or less: 1.00/1,500m: 0.95/2,000m: 0.90/2,500m: 0.85

But please do not perform the withstand pressure test as mention of the instruction manual.

[Installation location and operating environment]

Avoid installation in areas of high temperature, excessive humidity, or where moisture can easily collect, as well as areas that are dusty, subject to corrosive gasses, mist of liquid for grinding, or salt. Install the inverter away from direct sunlight in a well-ventilated room that is free of vibration. The inverter can be operated in the ambient temperature range from -10 to 50°C. (Carrier frequency and output current must be reduced in the range of 40 to 50°C.)

[Main power supply]

Installation of an AC reactor on the input side	In the following examples involving a general-purpose inverter, a large peak current flows on the main power supply side, and is able to destroy the converter module. Where such situations are foreseen or the connected equipment must be highly reliable, install an AC reactor between the power supply and the inverter. Also, where influence of indirect lightning strike is possible, install a lightning conductor. (A) The unbalance factor of the power supply is 3% or higher. (Note) (B) The power supply capacity is at least 10 times greater than the inverter capacity (the power supply capacity is 500 kVA or more). (C) Abrupt power supply changes are expected. Examples: (1) Several inverters are interconnected with a short bus. (2) A thyristor converter and an inverter are interconnected with a short bus. (3) An installed phase advance capacitor opens and closes. In cases (A), (B) and (C), it is recommended to install an AC reactor on the main power supply side. Note: Example calculation with V _{RS} = 205V, V _{ST} = 201V, V _{TR} = 200V V _{RS} : R-S line voltage, V _{ST} : S-T line voltage, V _{TR} : T-R line voltage Unbalance factor of voltage = Max. line voltage (min.) - Mean line voltage Mean line voltage X 100 Wean line voltage = V _{RS} - (V _{RS} + V _{ST} + V _{TR})/3 X 100 = 205 - 202 X 100 = 1.5 (%)
Using a private power generator	An inverter run by a private power generator may overheat the generator or suffer from a deformed output voltage waveform of the generator. Generally, the generator capacity should be five times that of the inverter (kVA) in a PWM control system, or six times greater in a PAM control system.

Notes on Peripheral Equipment Selection

Wiring connections		(1) Be sure to connect main power wires with R(L1), S(L2), and T(L3) terminals (input) and motor wires to U(T1), V(T2), and W(T3) terminals (output). (Incorrect connection will cause an immediate failure.) (2) Be sure to provide a grounding connection with the ground terminal (⊕).
	Electromagnetic contactor	When an electromagnetic contactor is installed between the inverter and the motor, do not perform on-off switching during running operation.
Wiring between inverter and motor	Thermal relay	When used with standard applicable output motors (standard three-phase squirrel-cage four-pole motors), the SJ700 and L700 Series does not need a thermal relay for motor protection due to the internal electronic protective circuit. A thermal relay, however, should be used: • during continuous running outside a range of 30 to 60 Hz. • for motors exceeding the range of electronic thermal adjustment (rated current). • when several motors are driven by the same inverter; install a thermal relay for each motor. • The RC value of the thermal relay should be more than 1.1 times the rated current of the motor. Where the wiring length is 10 m or more, the thermal relay tends to turn off readily. In this case, provide an AC reactor on the output side or use a current sensor.
Installing a circ	cuit breaker	Install a circuit breaker on the main power input side to protect inverter wiring and ensure personal safety. Choose an inverter-compatible circuit breaker. The conventional type may malfunction due to harmonics from the inverter. For more information, consult the circuit breaker manufacturer.
Wiring distanc	e	The wiring distance between the inverter and the remote operator panel should be 20 meters or less. Shielded cable should be used on the wiring. Beware of voltage drops on main circuit wires. (A large voltage drop reduces torque.)
Earth leakage	relay	If the earth leakage relay (or earth leakage breaker) is used, it should have a sensitivity level of 15 mA or more (per inverter).
Phase advance capacitor		Do not use a capacitor for power factor improvement between the inverter and the motor because the high-frequency components of the inverter output may overheat or damage the capacitor.

High-frequency Noise and Leakage Current

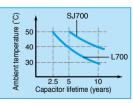
- (1) High-frequency components are included in the input/output of the inverter main circuit, and they may cause interference in a transmitter, radio, or sensor if used near the inverter. The interference can be minimized by attaching noise filters (option) in the inverter circuitry.

 (2) The switching action of an inverter causes an increase in leakage current. Be sure to ground the inverter and the motor.

Lifetime of Primary Parts

Because a DC bus capacitor deteriorates as it undergoes internal chemical reaction, it should normally be replaced every 10 years. (10 years is not the guaranteed lifespan but rather, the expected design lifespan.) Be aware, however, that its life expectancy is considerably shorter when the inverter is subjected to such adverse factors as high temperatures or heavy loads exceeding the rated current of the inverter JEMA standard is the 5 years at ambient temperature 40°C used in 12 hours daily. (according to the "Instructions for Periodic Inspection of General-Purpose Inverter " (JEMA).)

Also, such moving parts as a cooling fan should be replaced. Maintenance inspection and parts replacement must be performed by only specified trained personnel. Please plan to replace new INV depends on the load, ambient condition in advance.



- Before use, be sure to read through the Instruction Manual to insure proper use of the inverter.
- Note that the inverter requires electrical wiring; a trained specialist should carry out the wiring.
- The inverter in this catalog is designed for general industrial applications. For special applications in fields such as aircraft, outer space, nuclear power, electrical power, transport vehicles, clinics, and underwater equipment, please consult with us in advance.
- For application in a facility where human life is involved or serious losses may occur, make sure to provide safety devices to avoid a serious accident.
- The inverter is intended for use with a three-phase AC motor. For use with a load other than this, please consult with us.