

Compact & Powerful Inverter **Starvert iG5A**

0.4~1.5kW 1phase 200~230Volts 0.4~22kW 3Phase 200~230Volts 0.4~22kW 3Phase 380~480Volts



Drive Solution

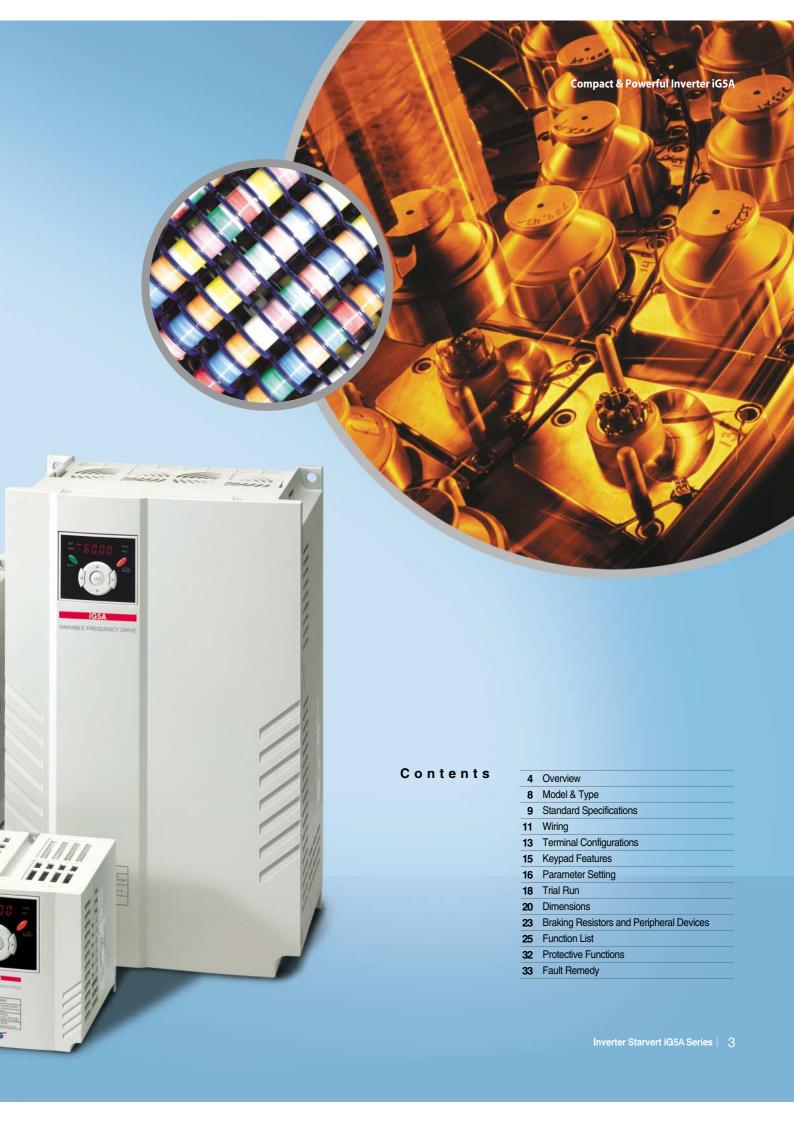




Inverter STARVERT iG5A

LS Starvert iG5A is very competitive in its price and shows an upgraded functional strength. User-friendly interface, extended inverter ranges up to 22kW, superb torque competence and small size of iG5A provides an optimum use environment.







Powerful & Upgraded Performance

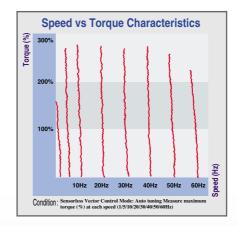
iG5A provides sensorless vector control, PID control, and ground-fault protection through powerful built-in functions.

Sensorless vector control

The built-in sensorless vector control provides the superb speed control and powerful high torque.

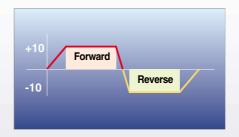
Ground-fault protection during running

The ground-fault protection of output terminal is possible during running.



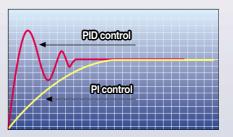
Analog control from -10V to 10V

Inputting analog signals from -10V to 10V provides user-friendly operation.



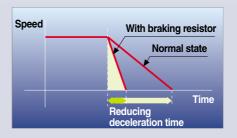
Built-in PID control

The built-in PID function enables to control flow-rate, oil-pressure, temperature, etc without any extra controller.



Built-in dynamic braking circuit

The built-in dynamic braking circuit minimizes deceleration time via braking resistors.



Built-in 485 communication

The built-in RS-485 communication supports remote control and monitoring between iG5A and other equipment.

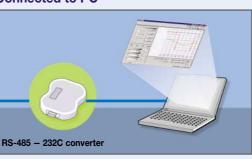
Wide product range

iG5A consists of the product range from 0.4 to 22KW.



RS-485 communication

Connected to PC



Monitoring

- Checking operation status (Voltage, Current, Frequency, etc)
- Checking modified parameters
- Windows support

Remote Control

- Convenient remote control to modify operation status (Forward/Reverse operation, Frequency, etc)
- Easy parameter setting
- Available to control up to 31 Inverters
- RS-485, Modbus communication

Connected to XGT panel



Monitoring

- Checking operation time
- Automatic list-up of trip record
- Language support (Korean, English, Chinese)

Remote Control

- Convenient remote control to modify operation status (Forward/Reverse operation, Frequency, etc)
- Easy parameter setting
- Available to control up to 31 Inverters
- RS-485, Modbus communication



User-friendly Interface & Easy Maintenance

The parameter setting becomes easier by adopting the 4 directions key. And iG5A supports easy maintenance via diagnosis and fan changeable structure.

Diagnosis of output module

Through easy parameter setting, iG5A can diagnose the status of output module.

Easy change of fan

iG5A is designed to be the fan changeable structure in preparation for a fan breakdown.



Cooling fan control

By controlling the cooling fan, iG5A provides a virtually quiet environment according to the status of operation.

User-friendly interface

The 4 directions key provides easy handling and monitoring.

External loader (Optional)

The external loader away from a panel enables to control and monitor conveniently. And the parameters made by external loader can be copied and applicable to other Inverters.



Model name	Remarks
INV, REMOTE KPD 2M (SV-iG5A)	2m
INV, REMOTE KPD 3M (SV-iG5A)	3m
INV, REMOTE KPD 5M (SV-iG5A)	5m



Compact Size

The compact size achieves cost-efficiency and various applications.

Same height from 0.4 to 4.0kW (128mm)





Global standard compliance CE UL

Global standard

iG5A series complies with CE and UL standards.

PNP/NPN input

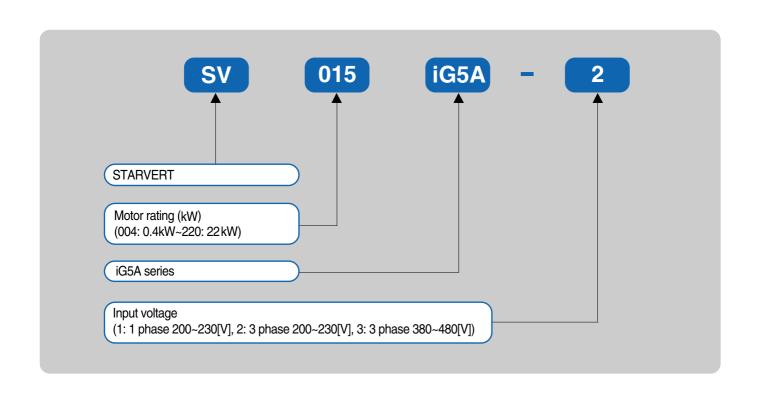
Both PNP and NPN inputs become possible and these enable to use the outer power.

To do so, users will be given wider choices of selecting the controller.



Model & Type

Applicable motor ranges	1 Phase 200V	3 Phase 200V	3 Phase 400V
0.4kW (0.5HP)	SV004iG5A-1	SV004iG5A-2	SV004iG5A-4
0.75kW (1HP)	SV008iG5A-1	SV008iG5A-2	SV008iG5A-4
1.5kW (2HP)	SV015iG5A-1	SV015iG5A-2	SV015iG5A-4
2.2kW (3HP)		SV022iG5A-2	SV022iG5A-4
3.7kW (5HP)		SV037iG5A-2	SV037iG5A-4
4.0kW (5.4HP)		SV040iG5A-2	SV040iG5A-4
5.5kW (7.5HP)		SV055iG5A-2	SV055iG5A-4
7.5kW (10HP)		SV075iG5A-2	SV075iG5A-4
11.0kW (15HP)		SV110iG5A-2	SV110iG5A-4
15.0kW (20HP)		SV150iG5A-2	SV150iG5A-4
18.5kW (25HP)		SV185iG5A-2	SV185iG5A-4
22.0kW (30HP)		SV220iG5A-2	SV220iG5A-4



Standard Specifications

1 Phase 200V

S	V □□□ iG5A-1 □□	004	008	015				
Max.	(HP)	0.5	1	2				
capacity 1)	(kW)	0.4	0.75	1.5				
	Capacity (kVA) ²⁾	0.95	1.9	3.0				
Output	FLA (A) 3)	2.5	5	8				
rating	Max frequency	400 [Hz] ⁴⁾						
	Max voltage	3 phase 200~230V 5)						
Input	Rated voltage		1phase 200~230 VAC (+10%, -15%	b)				
rating	Rated frequency		50~60 [Hz] (±5%)					
Cooling met	nod		Forced air cooling					
Weight (kg)		0.76	1.12	1.84				

3 Phase 200V

S	V □□□ iG5A-2 □□	004	008	015	022	037	040	055	075	110	150	185	220
Max.	(HP)	0.5	1	2	3	5	5.4	7.5	10	15	20	25	30
capacity 1)	(kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22
	Capacity (kVA) 2)	0.95	1.9	3.0	4.5	6.1	6.5	9.1	12.2	17.5	22.9	28.2	33.5
Output	FLA (A) 3)	2.5	5	8	12	16	17	24	32	46	60	74	88
rating	Max frequency						400	00 [Hz] 4)					
	Max voltage					,	3 phase 2	200~230	/ 5)				
Input	Rated voltage					3 phas	e 200~20	30 (+10%	, -15%)				
rating	Rated frequency	50~60 [Hz] (±5%)											
Cooling meth	nod	N/C ⁶⁾ Forced air cooling											
Weight (kg)		0.76	0.77	1.12	1.84	1.89	1.89	3.66	3.66	9.0	9.0	13.3	13.3

3 Phase 400V

S	V □□□ iG5A-4 □□	004	800	015	022	037	040	055	075	110	150	185	220
Max.	(HP)	0.5	1	2	3	5	5.4	7.5	10	15	20	25	30
capacity 1)	(kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22
	Capacity (kVA) 2)	0.95	1.9	3.0	4.5	6.1	6.5	9.1	12.2	18.3	22.9	29.7	34.3
Output	FLA (A) 3)	1.25	2.5	4	6	8	9	12	16	24	30	39	45
rating	Max frequency	400 [Hz] 4)											
	Max voltage					;	3 phase 3	380~480	V 5)				
Input	Rated voltage				;	3 phase 3	380~480	VAC (+1	0%, -15%	6)			
rating	Rated frequency	50~60 [Hz] (±5%)											
Cooling method							F	orced air	cooling				
Weight (kg)		0.76					1.89	3.66	3.66	9.0	9.0	13.3	13.3

¹⁾ Indicate the maximum applicable motor capacity when using 4 pole LS standard motor.

²⁾ Rated capacity is based on 220V for 200V series and 440V for 400V series.

³⁾ Refer to 15-3 of user's manual when carrier frequency setting (39) is above 3kHz.

⁴⁾ Max. frequency setting range is extended to 300Hz when H40 (Control mode select) is set to 3 (Sensorless vector control).

⁵⁾ Max. output voltage cannot be higher than the input voltage. It can be programmable below input voltage.

⁶⁾ Self-Cooling



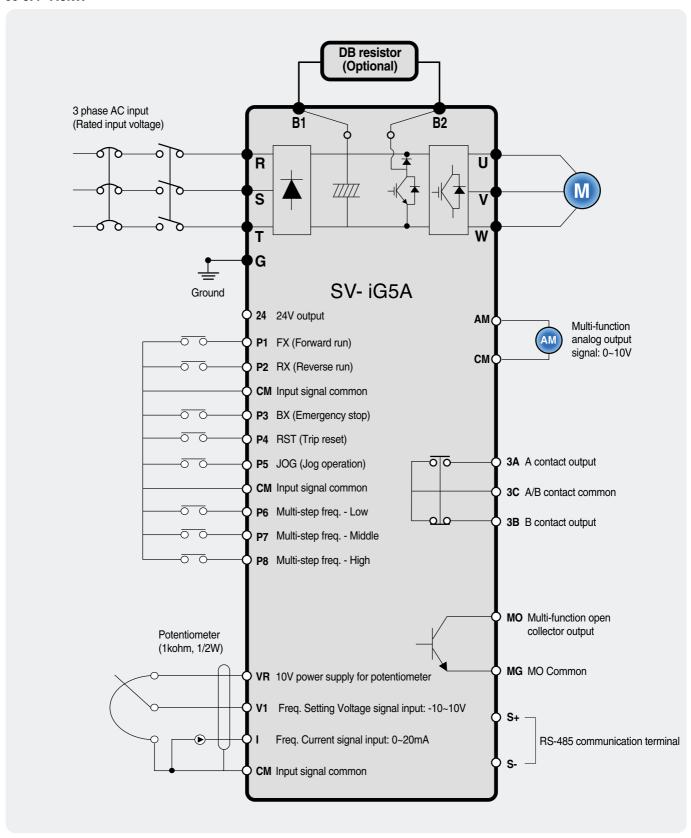
Standard Specifications

	Contro	l metho	d	V/F, Sensorless vector of	control				
	Freque	ncy sett	ting resolution	Digital command: 0.01H Analog command: 0.06H					
Control	Frequency accuracy			Digital command: 0.01% of Max. output frequency Analog command: 0.1% of Max. output frequency					
Control	V/F pat	tern		Linear, Squared, User V	/F				
	Overload capacity			150% per 1 min.					
	Torque boost			Manual/Auto torque boost					
	Dynam braking		Max. braking torque	20% 1)					
			Max. Duty	150% when using option	nal DB resistor ²⁾				
	Operati	ion mod	de	Keypad/ Terminal/ Com	munication option/ Remote keypad selectable				
Frequency setting				Analog: 0~10V, -10~10V Digital: Keypad	/, 0~20mA				
	Operation features			PID, Up-down, 3-wire					
				NPN/PNP selectable					
Operation	Input	Multi- termi P1~P	-	FWD/REV RUN, Emergency stop, Fault reset, Jog operation, Multi-step Frequency-High, Mid, Low, Multi-step Accel/Decel-High, Mid, Low, DC braking at stop, 2nd motor select, Frequency UP/Down, 3-wire operation, External trip A, B, PID-Inverter (V/F) operation bypass, Option-inverter (V/F) operation bypass, Analog Hold, Accel/Decel stop					
	Output	Open collector terminal Output Multi-function relay		Fault output and inverter status output	Less than DC 24V, 50mA (N.O., N.C.) Less than AC 250V, 1A; Less than DC 30V, 1A				
		Analog output (AM)		0~10Vdc (less than 10mA): Output freq, Output current, Output voltage, DC link selectable					
	Trip			Motor overheat, Output p	age, Over current, Ground fault current detection, Inverter overheat, ohase open, Overload protection, Communication error, I, Hardware fault, Fan trip				
Protective function	Alarm			Stall prevention, Overload					
	Momen	itary po	wer loss	Below 15 msec.: Continuous operation (Should be within rated input voltage, rated output power.) Above 15 msec.: Auto restart enable					
	Protect	ion deg	gree	IP 20, NEMA1 (Optional)				
	Ambier	nt temp		-10°C ~50°C					
	Storage	e temp		-20°C ~65°C					
Environ ment	Humidi	ty		Below 90% RH (No cond	densation)				
	Altitude	e/Vibrat	ion	Below 1,000m, 5.9m/sec	c² (0.6G)				
	Atmos	oheric p	pressure	70~106 kPa					
	Locatio	n		Protected from corrosive	e gas, Combustible gas, Oil mist or dust				

Means average braking torque during Decel to stop of a motor.
 Refer to Chapter 16 of user's manual for DB resistor specification.

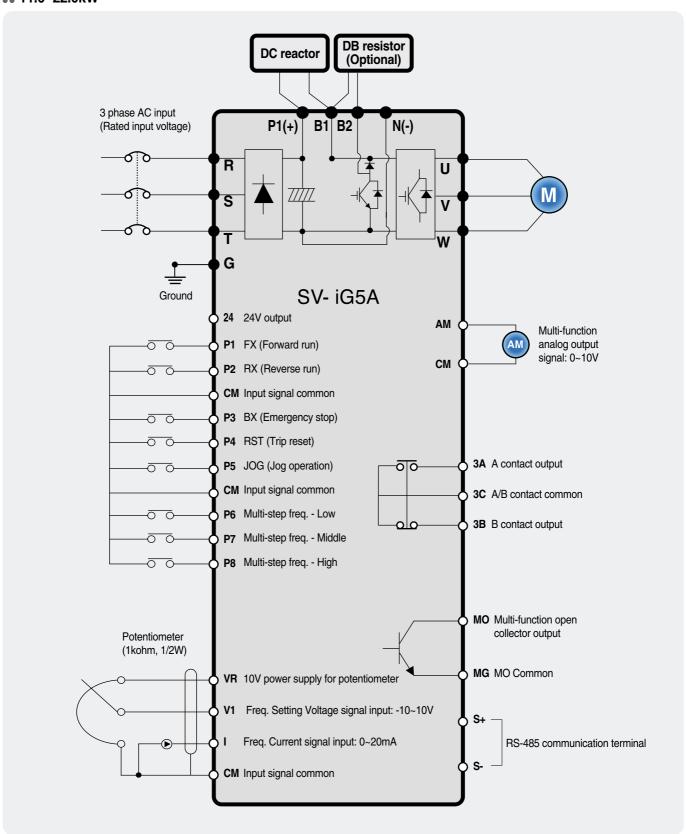
Wiring

.. 0.4~7.5kW



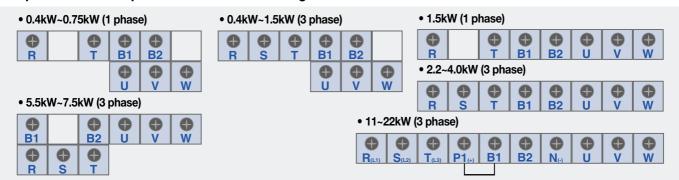
iG5A Wiring

11.0~22.0kW



Terminal Configuration

Specifications for power terminal block wiring

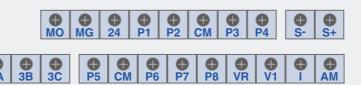


	R, S,	T wire	U, V, 1	W wire	Grour	nd wire	Terminal	Screw Torque
	mm ²	AWG	mm²	AWG	mm²	AWG	Screw Size	(kgf.cm) / lb-in
SV004iG5A-1	2	14	2	14	3.5	12	M3.5	10/8.7
SV008iG5A-1	2	14	2	14	3.5	12	M3.5	10/8.7
SV015iG5A-1	2	14	2	14	3.5	12	M4	15/13
SV004iG5A-2	2	14	2	14	3.5	12	M3.5	10/8.7
SV008iG5A-2	2	14	2	14	3.5	12	M3.5	10/8.7
SV015iG5A-2	2	14	2	14	3.5	12	M3.5	10/8.7
SV022iG5A-2	2	14	2	14	3.5	12	M4	15/13
SV037iG5A-2	3.5	12	3.5	12	3.5	12	M4	15/13
SV040iG5A-2	3.5	12	3.5	12	3.5	12	M4	15/13
SV055iG5A-2	5.5	10	5.5	10	5.5	10	M5	32/28
SV075iG5A-2	8	8	8	8	5.5	10	M5	32/28
SV110iG5A-2	14	6	14	6	14	6	M6	30.7/26.6
SV150iG5A-2	22	4	22	4	14	6	M6	30.7/26.6
SV185iG5A-2	30	2	30	2	22	4	M8	30.5/26.5
SV220iG5A-2	38	2	30	2	22	4	M8	30.5/26.5
SV004iG5A-4	2	14	2	14	2	14	M3.5	10/8.7
SV008iG5A-4	2	14	2	14	2	14	M3.5	10/8.7
SV015iG5A-4	2	14	2	14	2	14	M4	15/13
SV022iG5A-4	2	14	2	14	2	14	M4	15/13
SV037iG5A-4	2	14	2	14	2	14	M4	15/13
SV040iG5A-4	2	14	2	14	2	14	M4	15/13
SV055iG5A-4	3.5	12	2	14	3.5	12	M5	32/28
SV075iG5A-4	3.5	12	3.5	12	3.5	12	M5	32/28
SV110iG5A-4	5.5	10	5.5	10	8	8	M5	30.7/26.6
SV150iG5A-4	14	6	8	8	8	8	M5	30.7/26.6
SV185iG5A-4	14	6	8	8	14	6	M6	30.5/26.5
SV220iG5A-4	22	4	14	6	14	6	M6	30.5/26.5



Terminal Configuration

Control terminal specifications



Tamainal	Danadakian.	Wire siz	ze (mm²)	0	1)	0
Terminal	Description	Single wire	Stranded	Screw size	Torque (Nm)	Specification
P1~P8	Multi-function input T/M 1-8	1.0	1.5	M2.6	0.4	
СМ	Common terminal	1.0	1.5	M2.6	0.4	
VR	Power supply for external potentiometer	1.0	1.5	M2.6	0.4	Output voltage: 12V Max. output current: 100mA Potentiometer: 1~5kohm
V1	Input terminal for voltage operation	1.0	1.5	M2.6	0.4	Max. input voltage: -12V~+12V input
ı	Input terminal for current operation	1.0	1.5	M2.6	0.4	0~20mA input Internal resistor: 500ohm
AM	Multi-function analog output terminal	1.0	1.5	M2.6	0.4	Max. output voltage: 11V Max. output current: 100mA
МО	Multi-function terminal for open collector	1.0	1.5	M2.6	0.4	Below DC 26V,100mA
MG	Ground terminal for external power supply	1.0	1.5	M2.6	0.4	
24	24V external power supply	1.0	1.5	M2.6	0.4	Max. output current: 100mA
3A	Multi-function relay output A contact	1.0	1.5	M2.6	0.4	Below AC 250V, 1A
3B	Multi-function relay output B contact	1.0	1.5	M2.6	0.4	Below DC 30V, 1A
3C	Common for multi-function relays	1.0	1.5	M2.6	0.4	

- 1) Use the recommended tightening torque when securing terminal screws.

 ** When you use external power supply (24V) for multi-function input terminal (P1~P8), apply voltage higher than 12V to activate.

 ** Tie the control wires more than 15cm away from the control terminals. Otherwise, it interferes front cover reinstallation.

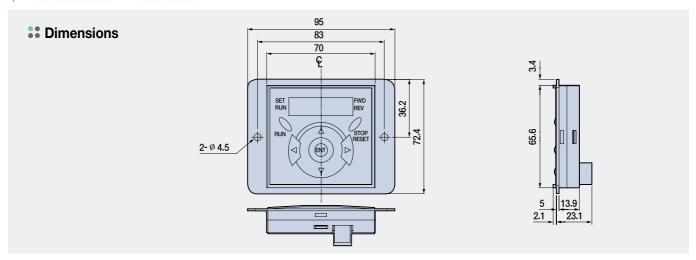


Keypad Features



	Display	Term	Description
	RUN	Run key	Run command
	STOP/RESET	STOP/RESET key	STOP: Stop command during operation, RESET: Reset command when a fault occurs.
	A	Up key	Used to scroll through codes or increase parameter value
KEY	▼	Down key Right key	Used to scroll through codes or decrease parameter value
KET	•		Used to jump to other parameter groups or move a cursor to the right to change the parameter value
	•	Left key	Used to jump to other parameter groups or move a cursor to the left to change the parameter value
	•	Enter key	Used to set the parameter value or save the changed parameter value
	FWD	Forward run	Lit during forward run
LED ¹⁾	REV	Reverse run	Lit during reverse run
LLD	RUN	Run key	Lit during operation
	SET	Setting	Lit during parameter setting

1) 4 LEDs above are set to blink when a fault occurs.

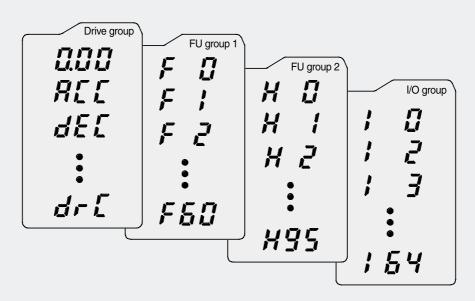




Moving to Other Groups

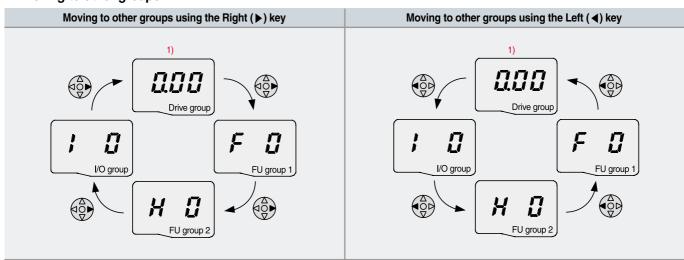
Parameter groups

There are 4 different parameter groups in iG5A series as shown below.

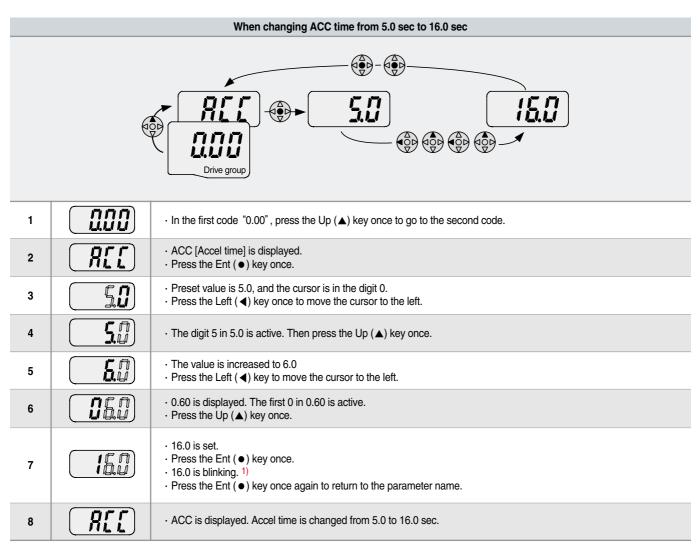


Parameter group	Description
Drive group	Basic parameters necessary for the inverter to run. Parameters such as Target frequency, Accel/Decel time settable.
Function group 1	Basic function parameters to adjust output frequency and voltage.
Function group 2	Advanced function parameters to set parameters for such as PID Operation and second motor operation.
I/O (Input/Output) group	Parameters necessary to make up a sequence using multi-function input/output terminal.

Moving to other groups



Target frequency can be set at 0.0 (the 1st code of drive group). Even though the preset value is 0.0, it is user-settable.
 The changed frequency will be displayed after it is changed.



¹⁾ Pressing the Left (◀)/Right (▶)/Up (♠)/Down (▼) key while a cursor is blinking will cancel the parameter value change. Pressing the Ent (•) key in this status will enter the value into memory.

[※] In step 7, pressing the Left (◄) or Right (▶) key while 16.0 is blinking will disable the setting.

	Code change in Drive group								
, nnn	1		 In the 1st code in Drive group "0.00", press the Up (▲) key once. 						
	2	ALL	 The 2nd code in Drive group "ACC" is displayed. Press the Up (▲) key once. 						
	3	<u>dEL</u>	 The 3rd code "dEC" in Drive group is displayed. Keep pressing the Up (▲) key until the last code appears. 						
PIT P	4	<u>dr[</u>	 The last code in Drive group "drC" is displayed. Press the Up (▲) key again. 						
0.00	5		· Return to the first code of Drive group.						
Drive group	· Use	e Down (▼) key for the o	opposite order.						



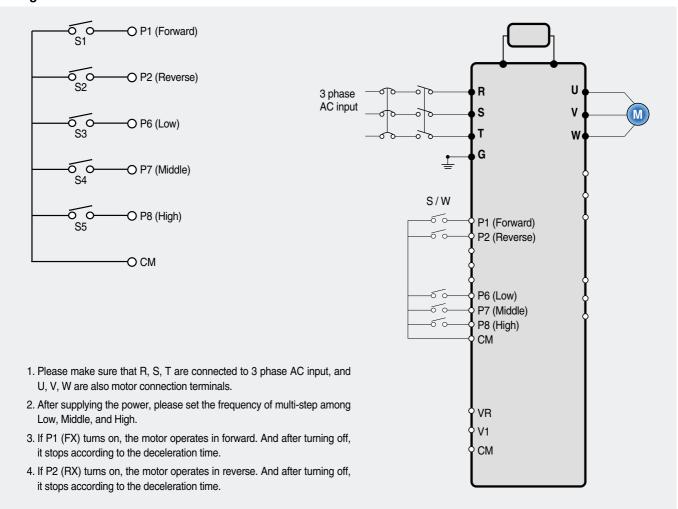
Trial Run

Multi-step operation + Run/Stop via FX/RX + Max. frequency change

Operation condition

Operation command: Frequency command: Max. frequency change: Multi-step operation [Low (20), Middle (30), High (80)] From 60Hz to 80Hz

Wiring



Parameter setting

Step	Command	Code	Description	Default	After change
1	Max. frequency change (FU1)	F21	Change Max. frequency.	60Hz	80Hz
2	Multi-step frequency (DRV)	st1	Set 'Low' step.	10Hz	20Hz
3	Multi-step frequency (DRV)	st2	Set 'Middle' step.	20Hz	30Hz
4	Multi-step frequency (I/O)	130	Set 'High' step.	30Hz	80Hz
5	Forward run (P1: FX)	I17	The default is FX. This value may change.	FX	FX
6	Reverse run (P2: RX)	I18	The default is RX. This value may change.	RX	RX

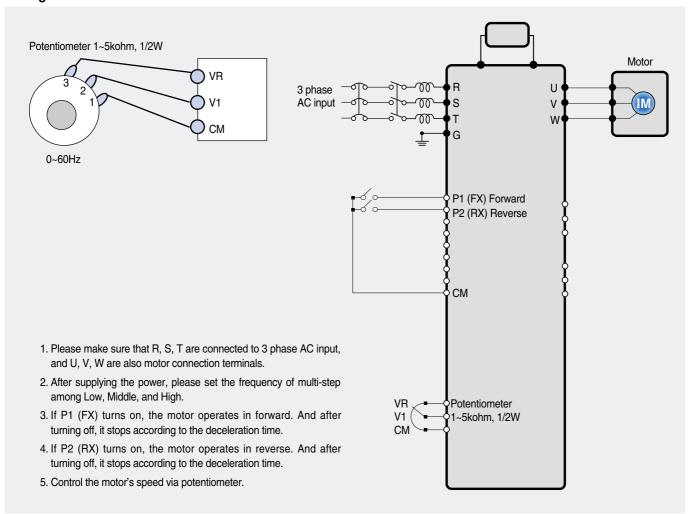
Potentiometer (Volume) + Run/Stop via FX/RX + Accel/Decel time change

Operation condition

Operation command: Frequency command: Accel/Decel time:

Run/Stop via FX/RX 0~60Hz analog input via potentiometer Accel-10sec, Decel-20sec

Wiring



Parameter setting

. u.u	numeter setting										
Step	Command	Code	Description	Default	After change						
1	Operation command (DRV group)	Drv	Turn on/off motor via terminal.	1 (FX/RX-1)	1 (FX/RX-1)						
2	Analog input (DRV group)	Frq	Change keypad command to analog voltage command.	0 (Keypad-1)	3 (V1: 0~10V)						
3	Accel/Decel time	ACC	Set Accel time to 10sec in ACC	5sec (Accel)	10sec (Accel)						
3	(DRV group)	dEC	Set Decel time to 20sec in dEC.	10sec (Decel)	20sec (Decel)						
4	Forward run (P1: FX)	I17	The default is FX. This value may change	FX	FX						
5	Reverse run (P2: RX)	I18	The default is RX. This value may change.	RX	RX						



Dimensions

** SV004iG5A-2 / SV008iG5A-2, SV004iG5A-4 / SV008iG5A-4

65.5

65.5

70

70

128

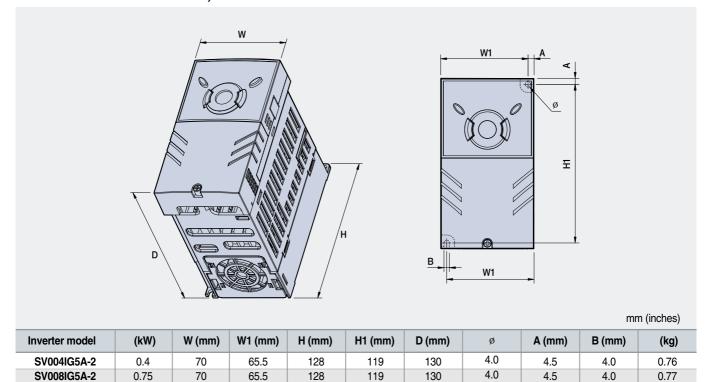
128

119

119

130

130



4.0

4.0

4.5

4.5

4.0

4.0

0.76

0.77

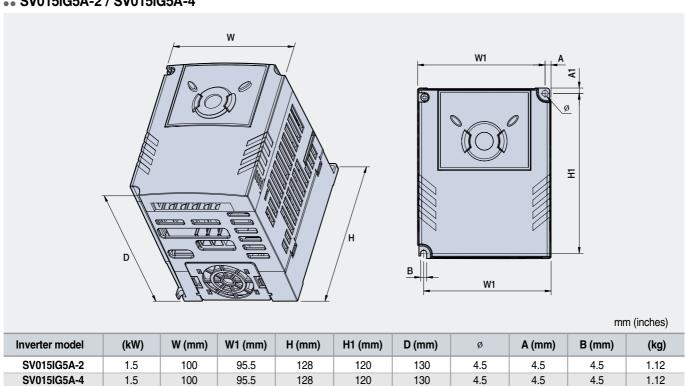
** SV015iG5A-2 / SV015iG5A-4

0.4

0.75

SV004IG5A-4

SV008IG5A-4

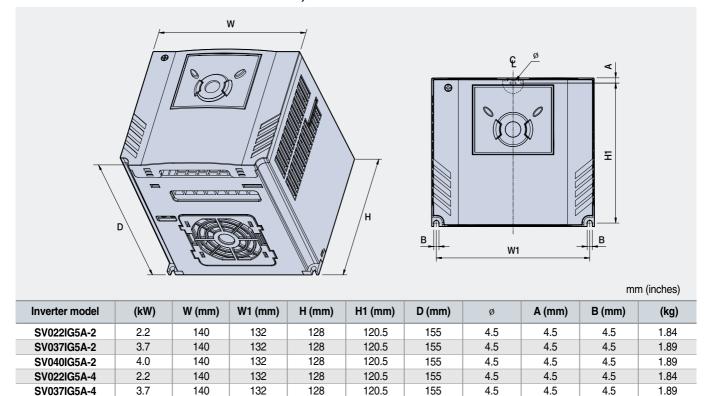


4.5

4.5

1.89

** SV022iG5A-2 / SV037iG5A-2 / SV040iG5A-2, SV022iG5A-4 / SV037iG5A-4 / SV040iG5A-4



** SV055iG5A-2 / SV075iG5A-2, SV055iG5A-4 / SV075iG5A-4

140

4.0

SV040IG5A-4

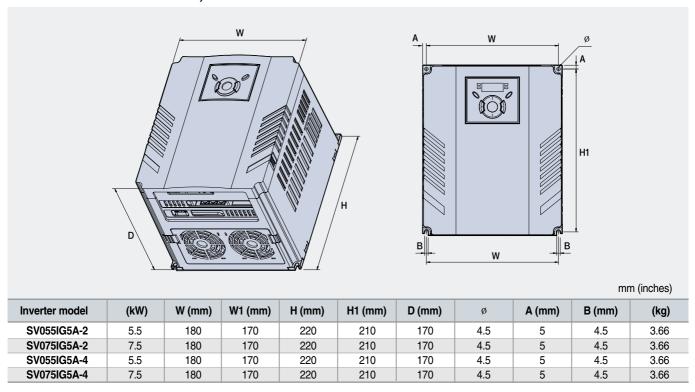
132

128

120.5

155

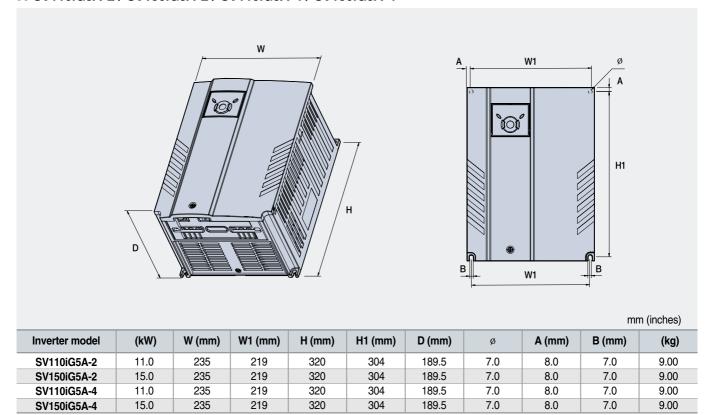
4.5



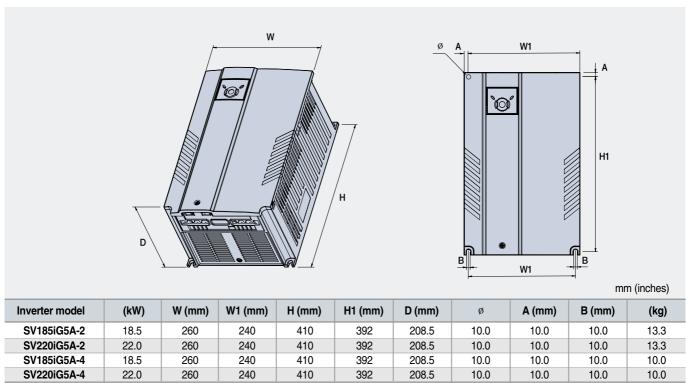


Dimensions

** SV110iG5A-2 / SV150iG5A-2 / SV110iG5A-4 / SV150iG5A-4



** SV185iG5A-2 / SV220iG5A-2 / SV185iG5A-4 / SV220iG5A-4



Braking Resistors and Peripheral Devices

Braking resistors

Vallana	lada	100% k	oraking	150% b	raking
Voltage	inverter	Resistor [Ω]	Watt [W] ¹⁾	Resistor [Ω]	Watt [W] 1)
	0.4 0.75 1.5 2.2 3.7 Series 5.5 7.5 11.0 15.0 18.5 22.0 0.4 0.75 1.5 22.0 0.4 0.75 1.5 2.2 3.7	400	50	300	100
	0.75	200	100	150	150
	1.5	100	200	60	300
	2.2	60	300	50	400
	3.7	40	500	33	600
200V Series	5.5	30	700	20	800
	7.5	20	1,000	15	1,200
	11.0	15	1,400	10	2,400
	15.0	11	2,000	8	2,400
	18.5	9	2,400	5	3,600
	22.0	8	2,800	5	3,600
	0.4	1,800	50	1,200	100
	0.75	900	100	600	150
	1.5	450	200	300	300
	2.2	300	300	200	400
	3.7	200	500	130	600
400V Series	5.5	120	700	85	1,000
	7.5	90	1,000	60	1,200
	11.0	60	1,400	40	2,000
	15.0	45	2,000	30	2,400
	18.5	35	2,400	20	3,600
	22.0	30	2,800	20	3,600

¹⁾ The wattage is based on Enable Duty (%ED) with continuous braking time 15sec.

33 Breakers

Madal	Brea	ker
Model	Current [A]	Voltage [V]
004iG5A-1	ABS33b,EBs33	GMC-12
008iG5A-1	ABS33b,EBs33	GMC-12
015iG5A-1	ABS33b,EBs33	GMC-12
004iG5A-2	ABS33b,EBs33	GMC-12
004iG5A-2	ABS33b,EBs33	GMC-12
008iG5A-2	ABS33b,EBs33	GMC-12
015iG5A-2	ABS33b,EBs33	GMC-12
022iG5A-2	ABS33b,EBs33	GMC-18
037iG5A-2	ABS33b,EBs33	GMC-22
040iG5A-2	ABS33b,EBs33	GMC-22
055iG5A-2	ABS53b,EBs53	GMC-22
075iG5A-2	ABS103b,EBs53	GMC-32
110iG5A-2	ABS103b,EBs53	GMC-50
150iG5A-2	ABS203b,EBs53	GMC-65

Madal	Brea	ker
Model	Current [A]	Voltage [V]
185iG5A-2	ABS203b,EBs53	GMC-85
220iG5A-2	ABS203b,EBs53	GMC-100
004iG5A-4	ABS33b,EBs33	GMC-12
008iG5A-4	ABS33b,EBs33	GMC-12
015iG5A-4	ABS33b,EBs33	GMC-12
022iG5A-4	ABS33b,EBs33	GMC-22
037iG5A-4	ABS33b,EBs33	GMC-22
040iG5A-4	ABS33b,EBs33	GMC-22
055iG5A-4	ABS33b,EBs33	GMC-22
075iG5A-4	ABS33b,EBs33	GMC-22
110iG5A-4	ABS53b,EBs53	GMC-22
150iG5A-4	ABS103b,EBs53	GMC-25
185iG5A-4	ABS103b,EBs53	GMC-40
220iG5A-4	ABS103b,EBs53	GMC-50



Braking Resistors and Peripheral Devices

****** Fuses & AC reactors

Madal	AC ext	ernal fuse			
Model	Current [A]	Voltage [V]	AC reactor	DC reactor	
004iG5A-1	10 A	500V	4.20 mH, 3.5 A	-	
008iG5A-1	10 A	500V	2.13 mH, 5.7 A	-	
015iG5A-1	15 A	500V	1.20 mH, 10 A	-	
004iG5A-2	10 A	500V	4.20 mH, 3.5 A	-	
008iG5A-2	10 A	500V	2.13 mH, 5.7 A	-	
015iG5A-2	15 A	500V	1.20 mH, 10 A	-	
022iG5A-2	25 A	500V	0.88 mH, 14 A	-	
037iG5A-2	30 A	500V	0.56 mH, 20 A	-	
040iG5A-2	30 A	500V	0.56 mH, 20 A	-	
055iG5A-2	30 A	500V	0.39 mH, 30 A	-	
075iG5A-2	50 A	500V	0.28 mH, 40 A	-	
110iG5A-2	70 A	500V	0.20 mH, 59 A	0.74 mH, 56 A	
150iG5A-2	100 A	500V	0.15 mH, 75 A	0.57 mH, 71 A	
185iG5A-2	100 A	500V	0.12 mH, 96 A	0.49 mH, 91 A	
220iG5A-2	125 A	500V	0.10 mH, 112 A	0.42 mH, 107 A	
004iG5A-4	5 A	500V	18.0 mH, 1.3 A	-	
008iG5A-4	10 A	500V	8.63 mH, 2.8 A	-	
015iG5A-4	10 A	500V	4.81 mH, 4.8 A	-	
022iG5A-4	10 A	500V	3.23 mH, 7.5 A	-	
037iG5A-4	20 A	500V	2.34 mH, 10 A	-	
040iG5A-4	20 A	500V	2.34 mH, 10 A	-	
055iG5A-4	20 A	500V	1.22 mH, 15 A	-	
075iG5A-4	30 A	500V	1.14 mH, 20 A	-	
110iG5A-4	35 A	500V	0.81 mH, 30 A	2.76 mH, 29 A	
150iG5A-4	45 A	500V	0.61 mH, 38 A	2.18 mH, 36 A	
185iG5A-4	60 A	500V	0.45 mH, 50 A	1.79 mH, 48 A	
220iG5A-4	70 A	500V	0.39 mH, 58 A	1.54 mH, 55 A	

3. Drive Group

LED display	Address for communication	Parameter name	Min/Max range		1	Description	Factory defaults	Adj. during run
0.00	A100	[Frequency command]	0 ~ 400 [Hz]	commoduring During During Multi-	parameter sets the freenanded to output. g Stop: Frequency Cog Run: Output Freque g Multi-step operation step frequency 0. unot be set greater tha	0.00	0	
ACC	A101	[Accel time]	0 ~ 6000	Durin	g Multi-Accel/Decel o	peration, this parameter serves as	5.0	0
dEC	A102	[Decel time]	[Sec]	Acce	l/Decel time 0.		10.0	0
drv	A103	[Drive mode]	0~3	0 1 2 3 4	Run/Stop via Run/Stop key on the keypad FX: Motor forward run RX: Motor reverse run FX: Run/Stop enable RX: Reverse rotation select RS485 communication Set to Field Bus communication 1)		1	×
Frq	A104	[Frequency setting method]	0~7	0 1 2 3 4 5 6 7 8	Analog RS485 communicat Digital Volume Set to Field Bus con		0	×
St1	A105	[Multi-Step frequency 1]		Sets	Multi-Step frequency	1 during Multi-step operation.	10.00	0
St2	A106	[Multi-Step frequency 2]	0 ~ 400 [Hz]	Sets	Multi-Step frequency 2	2 during Multi-step operation.	20.00	0
St3	A107	[Multi-Step frequency 3]		Sets	Multi-Step frequency	3 during Multi-step operation.	30.00	0
CUr	A108	[Output current]		Displ	ays the output current	to the motor.	-	-
rPM	A109	[Motor RPM]		Displ	ays the number of Mo	tor RPM.	-	-
dCL	A10A	[Inverter DC link voltage]		Displ	ays DC link voltage in:	side the inverter.	-	-
vOL	A10B	[User display select]			parameter displays the select]. Output voltage Output power Torque	vOL	-	

¹⁾ This function can be available with iG5A Communication Option Module.



3. Drive Group

LED display	Address for communication	Parameter name	Min/Max range		ı	Description	Factory defaults	Adj. during run
nOn	A10C	[Fault Display]		Displa	ays the types of faults	, frequency and operating status at the	_	_
	71100	[r ddit Diopidy]		time o	of the fault			
		[Direction of		Sets	the direction of motor	rotation when drv - [Drive mode] is set		
drC	A10D	motor rotation	F, r		ner 0 or 1.		F	0
		select]	.,.	F	Forward			
				r	Reverse			
				0	Run/Stop via Run/S	top key on the keypad		
			0~3	1		FX: Motor forward run		
					Terminal operation	RX: Motor reverse run		
drv2	drv2 A10E	[Drive mode 2]		2	Tomman operation	FX: Run/Stop enable	1	×
						RX: Reverse rotation select		
				3	RS-485 communica			
				4	Set to Filed Bus Cor			
			0 ~ 7	0	Digital	Keypad setting 1		
				1		Keypad setting 2		
				2		V1 1: -10 ~ +10 [V]		
		[Frequency setting method 2]		3		V1 2: 0 ~ +10 [V]	0	
Frq2 1)	A10F			4	Analog	Terminal I: 0 ~ 20 [mA]		×
				5		Terminal V1 setting 1 + Terminal I		^
				6		Terminal V1 setting 2+ Terminal I		
				7	RS485 communicat	ion		
				8	Digital Volume			
				9	Set to Filed Bus Cor	,		
		PID control	0~400[Hz]		3 is 0, it is expressed a	• •		
rEF ²⁾	A110	standard	or		B is 1, it is expressed a	• •	0.00	0
		value setting	0~100 [%]	-		unit, you can't set Max. frequency more than (F21).		
			[, -]		unit, 100% means M	1 ,		
Ebl. 2)		PID control			cates a feedback amo			
Fbk ²⁾	A111	feedback			3 is 0, it is expressed a		-	-
		amount		If H58	B is 1, it is expressed a	as a [%] unit.		

¹⁾ Only displayed when one of the Multi-function input terminals 1-8 [117~124] is set to "22". 2) It is indicated when H49(PID control selection) is 1.

****** Function group 1

LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during run
F0	A200	[Jump code]	0 ~ 71	Sets t	the parameter code number to jump.	1	0
F1	A201	[Forward/ Reverse run disable]	0 ~ 2	0 1 2	Fwd and rev run enable Forward run disable Reverse run disable	0	×
F 2	A202	[Accel pattern]	0 ~ 1	0	Linear	0	×
F3	A203	[Decel pattern]	0~1	1	S-curve	0	^

³⁾ This function can be available with iG5A Communication Option Module.

****** Function group 1

LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during run
F 4	A204	[Stop mode select]	0 ~ 3	0 1 2 3	Decelerate to stop DC brake to stop Free run to stop Power Braking stop	0	×
F 8 1)	A208	[DC Brake start frequency]	0.1 ~ 60 [Hz]		parameter sets DC brake start frequency. not be set below F23 - [Start frequency].	5.00	×
F 9	A209	[DC Brake wait time]	0 ~ 60 [sec]	l .	n DC brake frequency is reached, the inverter holds the ut for the setting time before starting DC brake.	0.1	×
F10	A20A	[DC Brake voltage]	0 ~ 200 [%]		parameter sets the amount of DC voltage applied to a motor. et in percent of H33 - [Motor rated current].	50	×
F11	A20B	[DC Brake time]	0 ~ 60 [sec]	'	parameter sets the time taken to apply DC current to a rwhile motor is at a stop.	1.0	×
F12	A20C	[DC Brake start voltage]	0 ~ 200 [%]	starts	parameter sets the amount of DC voltage before a motor s to run. et in percent of H33 - [Motor rated current].	50	×
F13	A20D	[DC Brake start time]	0 ~ 60 [sec]		oltage is applied to the motor for DC Brake start time before r accelerates.	0	×
F14	A20E	[Time for magnetizing a motor]	0 ~ 60 [sec]		parameter applies the current to a motor for the set time re motor accelerates during Sensorless vector control.	0.1	×
F20	A214	[Jog frequency]	0 ~ 400 [Hz]	'	parameter sets the frequency for Jog operation. Inot be set above F21 - [Max frequency].	10.00	0
F21 ²⁾	A215	[Max frequency]	40 ~ 400 [Hz]	It is fi	parameter sets the highest frequency the inverter can output. requency reference for Accel/Decel (See H70) Caution requency cannot be set above Max frequency except Base ency	60.00	×
F22	A216	[Base frequency]	30 ~ 400 [Hz]		nverter outputs its rated voltage to the motor at this ency (see motor nameplate).	60.00	×
F23	A217	[Start frequency]	0.1 ~ 10 [Hz]		nverter starts to output its voltage at this frequency. ne frequency low limit.	0.50	×
F24	A218	[Frequency high /low limit select]	0 ~ 1	This	parameter sets high and low limit of run frequency.	0	×
F25 ³⁾	A219	[Frequency high limit]	0 ~ 400 [Hz]		parameter sets high limit of the run frequency. nnot be set above F21 - [Max frequency].	60.00	×
F26	A21A	[Frequency low limit]	0.1 ~ 400 [Hz]	It car	This parameter sets low limit of the run frequency. It cannot be set above F25 - [Frequency high limit] and below F23 - [Start frequency].		×
F27	A21B	[Torque Boost select]	0 ~ 1	0	Manual torque boost Auto torque boost	0	×
F28	A21C	[Torque boost in forward direction]	0 ~ 15		parameter sets the amount of torque boost applied to a motor g forward run. It is set in percent of Max output voltage.	2	×
F29	A21D	[Torque boost in reverse direction]	[%]		parameter sets the amount of torque boost applied to a motor greverse run. It is set as a percent of Max output voltage.	2	×

Only displayed when F 4 is set to 1 (DC brake to stop).
 If H40 is set to 3 (Sensorless vector), Max. frequency is settable up to 300Hz.
 Only displayed when F24 (Frequency high/low limit select) is set to 1.



LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during run
				0	{Linear}		
F30	A21E	[V/F pattern]	0 ~ 2	1	{Square}	0	×
				2	{User V/F}		
F31 ¹⁾	A21F	[User V/F	0 ~ 400		sed only when V/F pattern is set to 2(User V/F)	15.00	×
		frequency 1]	[Hz]	It can	not be set above F21 - [Max frequency].		
F32	A220	[User V/F]	0 ~ 100			25	×
		voltage 1 [User V/F	[%] 0 ~ 400				
F33	A221	frequency 2]	[Hz]			30.00	×
		[User V/F	0 ~ 100				
F34	A222	voltage 2]	[%]	The \	value of voltage is set in percent of H70 - [Motor rated	50	×
		[User V/F	0 ~ 400	volta			
F35	A223	frequency 3]	[Hz]		values of the lower-numbered parameters cannot be set	45.00	×
Foc	4004	[User V/F	0 ~ 100	abov	e those of higher-numbered.	75	.,
F36	A224	voltage 3]	[%]			75	×
F37	A225	[User V/F	0 ~ 400			60.00	×
137	AZZJ	frequency 4]	[Hz]			00.00	^
F38	A226	[User V/F	0 ~ 100			100	×
	, 1220	voltage 4]	[%]			100	
F39	A227	[Output voltage	40 ~ 110		parameter adjusts the amount of output voltage.	100	×
		adjustment]	[%]	The set value is the percentage of input voltage.			
F40	A228	[Energy-saving	0 ~ 30	1	parameter decreases output voltage according to load	0	0
		level]	[%]	statu			
F50	A232	[Electronic thermal select]	0 ~ 1	inver	parameter is activated when the motor is overheated (time-	0	0
		triefffiai selectj			parameter sets max current capable of flowing to the motor		
		[Electronic		1	nuously for 1 minute.		
F51 ²⁾	A233	thermal level for	50 ~ 200	l .	set value is the percentage of H33 - [Motor rated current].	150	0
		1 minute]	[%]	l .	not be set below F52 - [Electronic thermal level for		
				conti	nuous].		
		[Electronic		This	parameter sets the amount of current to keep the motor		
F52	A234	[Electronic thermal level for	50 ~ 150	runni	ng continuously.	100	0
132	A254	continuous]	[%]	It can	not be set higher than F51 - [Electronic thermal level for 1	100	
		Continuous		minu			
				0	Standard motor having cooling fan directly connected to		
F53	A235	[Motor cooling	0 ~ 1		the shaft	0	0
		method]		1	A motor using a separate motor to power a cooling fan.		
				Thic	parameter eats the amount of current to issue an elem		
F54	A236	[Overload	30 ~ 150		parameter sets the amount of current to issue an alarm Il at a relay or multi-function output terminal (see I54, I55).	150	0
1 34	A200	warning level]	[%]	_	set value is the percentage of H33- [Motor rated current].	130	
					parameter issues an alarm signal when the current greater		
F55	A237	[Overload	0 ~ 30	than F54- [Overload warning level] flows to the motor for F55-			0
	warning time] [Sec]				rload warning time].	10	

¹⁾ Set F30 to 2(User V/F) to display this parameter.
2) Set F50 to 1 to display this parameter.

LED display	Address for communication	Parameter name	Min/Max range			Description		Factory defaults	Adj. during run
F56	A238	[Overload trip select]	0 ~ 1		oarameter turns off oaded.	the inverter output wh	nen motor is	1	0
F57	A239	[Overload trip level]	30 ~ 200 [%]			amount of overload cage of H33- [Motor rains		180	0
F58	A23A	[Overload trip time]	0 ~ 60 [Sec]	[Over	parameter turns off load trip level] of co load trip time].	60	0		
F59	A23B	[Stall prevention select]	0~7	0 1 2 3 4 5 6	erating during cons g deceleration. During Decel Bit 2 - - - - - - - - - - - - -	During constant run Bit 1 - - - - - - - - - - - - -	During Accel Bit 0	0	×
F60	A23C	[Stall prevention level]	30 ~ 200 [%]	preve	ntion function durin	amount of current to a ng Accel, Constant or centage of the H33- [M	Decel run.	150	×
F61 ¹⁾	A23D	[When Stall prevention during deceleration, voltage limit select	0~1		all prevention run d t voltage, select 1	uring deceleration, if y	ou want to limit		
F63	A23F	[Save up/down frequency select]	0 ~ 1	during	g up/down operatio	whether to save the son. up/down frequency is		0	×
F64 2)	A240	[Save up/down frequency]				ncy' is selected at F63 ore the inverter stops	•	0.00	×
F65	A241	[Up-down mode select]	0~2	0 1 2	Increases goal frequency/Min. fr	y as step frequency acc	d of Max.	0	×
F66	A242	[Up-down step frequency]	0~400 [Hz]		ase of frequency a	as a 1 or 2, it means according to up-down i		0.00	×
F70	A246	[Draw run mode select]	0~3	0 1 2 3	Inverter doesn't r V1(0~10V) input I(0~20mA) input V1(-10~10V) input	draw run		0	×
F71	A247	[Draw rate]	0~100[%]	Sets	rate of draw			0.00	0

¹⁾ It is indicated when setting bit 2 of F59 as 1 2) Set F63 to 1 to display this parameter.



LED display	Address for communication	Parameter name	Min/Max range		D	escrip	tio	on	Factory defaults	Adj. during run
H 0	A300	[Jump code]	0~95	Sets t	the code number to jur	np.			1	0
H 1	A301	[Fault history 1]	-						nOn	-
H 2	A302	[Fault history 2]	-	Store	s information on the ty	oes of f	fau	ılts, the frequency, the	nOn	-
H 3	A303	[Fault history 3]	-	current and the Accel/Decel condition at the time of fault. The				nOn	-	
H 4	A304	[Fault history 4]	-	latest	fault is automatically s	tored ir	n th	he H 1- [Fault history 1].	nOn	-
H 5	A305	[Fault history 5]	-						nOn	-
H 6	A306	[Reset fault history]	0~1	Clears the fault history saved in H 1-5.					0	0
Н7	A307	[Dwell frequency]	0.1~400 [Hz]	dwell [Dwel	run frequency is issue frequency is applied to I frequency] can be se ency] and F23- [Start fi	5.00	×			
H 8	A308	[Dwell time]	0~10 [sec]	Sets t	Sets the time for dwell operation.				0.0	×
H10	A30A	[Skip frequency select]	0 ~ 1		Sets the frequency range to skip to prevent undesirable resonance and vibration on the structure of the machine.					×
H11 1)	A30B	[Skip frequency low limit 1]								×
H12	A30C	[Skip frequency high limit 1]							15.00	×
H13	A30D	[Skip frequency low limit 2]	0.1~400					ne range of H11 thru H16. bered parameters cannot be	20.00	×
H14	A30E	[Skip frequency high limit 2]	[Hz]	l .	oove those of the high of F21 and F23.	numbe	rec	d ones. Settable within the	25.00	×
H15	A30F	[Skip frequency low limit 3]							30.00	×
H16	A310	[Skip frequency high limit 3]							35.00	×
H17	A311	[S-Curve accel/ decel start side]	1~100 [%]		e speed reference val decel. If it is set higher			n a curve at the start during one gets smaller.	40	×
H18	A312	[S-Curve accel/ decel end side]	1~100 [%]	l .	e speed reference val decel. If it is set higher			n a curve at the end during one gets smaller.	40	×
H19	A313	[Input/output phase loss protection select]	0~3	2	Disabled Input phase protection	3	ı	Output phase protection Input/output phase protection	0	0
H20	A314	[Power On Start select]	0 ~ 1	via Co Motor	This parameter is activated when drv is set to 1 or 2 (Run/Stop via Control terminal). Motor starts acceleration after AC power is applied while FX or RX terminal is ON.					0
H21	A315	[Restart after fault reset selection]	0 ~1	via Co Motor	ontrol terminal).			is set to 1 or 2 (Run/Stop ition is reset while the FX or	0	0

¹⁾ only displayed when H10 is set to 1. # H17, H18 are used when F2, F3 are set to 1 (S-curve)

LED display	Address for communication	Parameter name	Min/Max range			Descripti	ion		Factory defaults	Adj. during run
H22 ¹⁾	A316	[Speed Search Select]	0 ~ 15			citive to prevent a coltage to the rur 2. Restart after instant power failure		Lilt when the 4. Normal accel - - 4. Normal accel Bit 0 - - - - - - - - - - - - -	0	0
H23	A317	[Current level during Speed search]	80~200 [%]			s the amount of percentage of th	_	-	100	0
H24	A318	[P gain during Speed search]	0~9999	It is th	ne Proportional	gain used for S	peed Search P	I controller.	100	0
H25	A319	[I gain during speed search]	0~9999	It is th	ne Integral gain	used for Speed	I search PI con	troller.	200	0
H26	A31A	[Number of Auto Restart try]	0 ~10	occur restar {Run/	s. Auto Restar t tries. This fur Stop via contro	the number of r t is deactivated in action is active w of terminal. Dea OHT, LVT, EXT	f the fault outnu hen [drv] is set ctivated during	umbers the to 1 or 2	0	0
H27	A31B	[Auto Restart time]	0~60 [sec]	This p	parameter sets	the time between	en restart tries.		1.0	0
H30	A31E	[Motor type select]	0.2~ 22.0	0.2 0.2kW ~ ~ ~ 22.0kW					7.5 ²⁾	×
H31	A31F	[Number of motor poles]	2 ~ 12	This s		yed via rPM in o			4	×

¹⁾ Normal acceleration has first priority. Even though #4 is selected along with other bits, Inverter performs Speed search #4. 2) H30 is preset based on inverter rating.



LED display	Address for communication	Parameter name	Min/Max range	Description	Factory defaults	Adj. during run
H32	A320	[Rated slip frequency]	0 ~ 10 [Hz]	$fs = fr - \left[\frac{rpm \times p}{120} \right]$ Where, $fs = \text{Rated slip frequency}$ $fr = \text{Rated frequency}$ $rpm = \text{Motor nameplate RPM}$ $p = \text{Number of Motor poles}$	2.33 1)	x
H33	A321	[Motor rated current]	0.5~150 [A]	Enter motor rated current on the nameplate.	26.3	×
H34	A322	[No Load Motor Current]	0.1~ 50 [A]	Enter the current value detected when the motor is rotating in rated rpm after the load connected to the motor shaft is removed. Enter the 50% of the rated current value when it is difficult to measure H34 - [No Load Motor Current].	11	×
H36	A324	[Motor efficiency]	50~100 [%]	Enter the motor efficiency (see motor nameplate).	87	×
H37	A325	[Load inertia rate]	0~2	Select one of the following according to motor inertia. 0 Less than 10 times 1 About 10 times 2 More than 10 times	0	×
Н39	A327	[Carrier frequency select]	1 ~ 15 [kHz]	This parameter affects the audible sound of the motor, noise emission from the inverter, inverter temp, and leakage current. If the set value is higher, the inverter sound is quieter but the noise from the inverter and leakage current will become greater.	3	0
H40	A328	[Control mode select]	0 ~ 3	0 {Volts/frequency Control} 1 {Slip compensation control} 3 {Sensorless vector control}	0	×
H41	A329	[Auto tuning]	0 ~ 1	If this parameter is set to 1, it automatically measures parameters of the H42 and H44.	0	×
H42	A32A	[Stator resistance (Rs)]	0 ~ 28 [Ω]	This is the value of the motor stator resistance.	-	×
H44	A32C	[Leakage inductance (Lσ)]	0~ 300.0 [mH]	This is leakage inductance of the stator and rotor of the motor.	-	×
H45 ²⁾	A32D	[Sensorless P gain]	0~ 32767	P gain for Sensorless control	1000	0
H46	A32E	[Sensorless I gain]	0.4 02101	I gain for Sensorless control	100	0
H47	A32F	[Sensorless torque limit]	100~220 [%]	Limits output torque in sensorless mode.	180.0	×
H48	A330	PWM mode select	0~1	If you want to limit a inverter leakage current, select 2 phase PWM mode. It has more noise in comparison to Normal PWM mode. O Normal PWM mode 1 2 phase PWM mode	0	×
H49	A331	PID select	0~1	Selects whether using PID control or not	0	×

¹⁾ H32 ~ H36 factory default values are set based on OTIS-LG motor. 2) Set H40 to 3 (Sensorless vector control) to display this parameter.

LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during ru
H50 ¹⁾	A332	[PID F/B select]	0 ~ 1	0	Terminal I input (0 ~ 20 mA)	0	×
1.00	71002	[1 12 172 001001]		1	Terminal V1 input (0 ~ 10 V)		
H51	A333	[P gain for PID]	0~ 999.9 [%]			300.0	0
H52	A334	[Integral time for PID	0.1~32.0 [sec]	This	parameter sets the gains for the PID controller.	1.0	0
H53	A335	[Differential time for PID (D gain)]	0 ~ 30.0 [sec]			0.0	0
		[PID control		Selec	ets PID control mode		
H54	A336	mode select]	0~1	0	Normal PID control	0	×
		•		1	Process PID control		
H55	A337	[PID output frequency high limit]	0.1 ~ 400 [Hz]		parameter limits the amount of the output frequency through ID control.	60.00	0
H56	A338	[PID output frequency low limit]	0.1 ~ 400 [Hz]		value is settable within the range of F21 ? [Max frequency] F23 - [Start frequency].	0.50	0
H57	A339	[PID standard value select]	0~4		1 Loader digital setting 2 2 V1 terminal setting 2: 0~10V 3 I terminal setting: 0~20mA		×
				Selec	cts a unit of the standard value or feedback amount.		
H58	A33A	PID control	0~1	0	Frequency[Hz]	0	×
		unit select		1	Percentage[%]		
H60	A33C	[Self-diagnostic select]	0 ~ 3	0 1 2 3	Self-diagnostic disabled IGBT fault/Ground fault Output phase short & open/ Ground fault Ground fault (This setting is unable when more than 11kW)	0	×
H61 ²)	A33D	[Sleep delay time]	0~2000[s]	Sets	a sleep delay time in PID drive.	60.0	×
H62	A33E	[Sleep frequency]	0~400[Hz]	contr	a sleep frequency when executing a sleep function in PID ol drive. can't set more than Max. frequency(F21)	0.00	0
H63	A33F	[Wake up level]	0~100[%]	Sets	a wake up level in PID control drive.	35.0	0
H64	A340	[KEB drive select]	0~1		KEB drive.	0	×
H65	A341	[KEB action start level]	110~140 [%]	Sets KEB action start level according to level.		125.0	×
H66	A342	[KEB action stop level]	110~145 [%]	Sets	KEB action stop level according to level.	130.0	×
H67	A343	[KEB action gain]	1~20000	Sets	KEB action gain.	1000	×
H70	A346	[Frequency Reference for	0 ~ 1	0	Based on Max freq (F21) Based on Delta freq.	0	×

¹⁾ Set H49 to 1 (PID control) to display this parameter.
2) Set H49 as a 1
3): it is indicated when setting H64(KEB drive select) as a 1 (KEB does not operate when cut power after loading ting input (about 10%).



LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during rur
		[Accel/Decel		0 S	Settable unit: 0.01 second.		
H71	A347	time scale]	0 ~ 2	1 S	Settable unit: 0.1 second.	1	0
		unie scalej		2 8	Settable unit: 1 second.		
				This par	rameter selects the parameter to be displayed on the		
				keypad	when the input power is first applied.		
				0 F	Frequency command		
				1 A	Accel time		
				2 [Decel time		
				3 [Orive mode		
				4 F	Frequency mode		
				5 N	Multi-Step frequency 1		
				6 N	Multi-Step frequency 2		
1170	4040	[Power on	0 45	7 N	Multi-Step frequency 3		
H72	A348	display]	0 ~ 15	8 Output current		0	0
				9 N	Motor rpm		
				10 lr	nverter DC link voltage		
				-	Jser display select (H73)		
					Fault display		
				-	Direction of motor rotation select		
					Output current 2		
					Motor rpm 2		
					nverter DC link voltage 2		
				-	Jser display select 2		
				1	the following can be monitored via vOL - [User display		
				select].	and remaining can be measured that real [east display		
H73	A349	[Monitoring	0~2		Output voltage [V]	0	0
•	7.0.0	item select]	• -	-	Output power [kW]		
				-	Forque [kgf · m]		
		[Gain for Motor	1 ~ 1000		rameter is used to change the motor rotating speed		
H74	A34A	rpm display]	[%]		o mechanical speed (m/mi) and display it.	100	0
		[DB resistor	[/0]				
H75	A34B	operating rate	0 ~ 1	0 L	Jnlimited	1	0
1173	A34D	limit select]	0~1	1	Jse DB resistor for the H76 set time.	'	
		-	0 ~ 30		percent of DB resistor operating rate to be activated		
H76	A34C	[DB resistor			one sequence of operation.	10	0
		operating rate]	[%]				
		[On alling of face			Always ON Keeps ON when its temp is higher than inverter protection		
H77 1)	A34D	[Cooling fan	0 ~ 1			0	0
		control]			imit temp. Activated only during operation when its temp		
		,		į is	s below that of inverter protection limit.		
		[Operating		0 0	Continuous operation when cooling fan malfunctions.		
H78	A34E	method select	0 ~ 1		. ,	0	0
		when cooling fan		1 0	Operation stopped when cooling fan malfunctions.		
		malfunctions]					
H79	A34F	[S/W version]	0 ~ 10.0	This par	rameter displays the inverter software version.	1.0	×

¹⁾ Exception: Since SV004iG5A-2/SV004iG5A-4 is Natural convection type, this code is hidden.

LED display	Address for communication	Parameter name	Min/Max range	Description	Factory defaults	Adj. during run
H81 ¹⁾	A351	[2 nd motor Accel time]	0 ~ 6000		5.0	0
H82	A352	[2 nd motor Decel time]	[sec]		10.0	0
H83	A353	[2 nd motor base frequency]	30 ~ 400 [Hz]		60.00	×
H84	A354	[2 nd motor V/F pattern]	0 ~ 2		0	×
H85	A355	[2 nd motor forward torque boost]	0 ~ 15		5	×
H86	A356	[2 nd motor reverse torque boost]	[%]	This parameter actives when the selected terminal is ON after 117-124 is set to 12 {2 nd motor select}.	5	×
H87	A347	[2 nd motor stall prevention level]	30~150 [%]	117-124 is set to 12 (2 motor select).	150	×
H88	A358	[2 nd motor Electronic thermal level for 1 min]	50~200 [%]		150	0
H89	A359	[2 nd motor Electronic thermal level for continuous]	50~150 [%]		100	0
H90	A35A	[2 nd motor rated current]	0.1~100 [A]		26.3	×
H91 ²)	A35B	[Parameter read]	0 ~ 1	Copy the parameters from inverter and save them into remote loader.	0	×
H92	A35C	[Parameter write]	0 ~ 1	Copy the parameters from remote loader and save them into inverter.	0	×
Н93	A35D	[Parameter initialize]	0~5	This parameter is used to initialize parameters back to the factory default value. 0 - 1 All parameter groups are initialized to factory default value. 2 Only Drive group is initialized. 3 Only Function group 1 is initialized. 4 Only Function group 2 is initialized. 5 Only I/O group is initialized.	0	×
H94	A35E	[Password	0 ~ FFFF	Password for H95-[Parameter lock].	0	0
		register]		Set as Hexa value. This parameter is able to lock or unlock parameters by typing		
H95	A35F	[Parameter lock]	0 ~ FFFF	password registered in H94. UL (Unlock) Parameter change enable L (Lock) Parameter change disable	0	0

¹⁾ It is indicated when choosing I17~I24 as a 12 (2nd motor select).
2) H91,H92 parameters are displayed when Remote option is installed.



LED display	Address for communication	Parameter name	Min/Max range	Description	Factory defaults	Adj. during run
10	A400	[Jump code]	0 ~ 87	Sets the code number to jump.	1	0
12	A402	[NV input Min voltage]	0 ~ -10 [V]	Sets the minimum voltage of the NV (-10V~0V) input.	0.00	0
13	A403	[Frequency corresponding to I 2]	0 ~ 400 [Hz]	Sets the inverter output minimum frequency at minimum voltage of the NV input.	0.00	0
14	A404	[NV input Max voltage]	0 ~ -10 [V]	Sets the maximum voltage of the NV input.	10.0	0
15	A405	[Frequency corresponding to I 4]	0 ~ 400 [Hz]	Sets the inverter output maximum frequency at maximum voltage of the NV input.	60.00	0
16	A406	[Filter time constant for V1 input]	0 ~ 9999	Adjusts the responsiveness of V1 input (0 ~ +10V).	10	0
17	A407	[V1 input Min voltage]	0 ~ 10 [V]	Sets the minimum voltage of the V1 input.	0	0
18	A408	[Frequency corresponding to I 7]	0 ~ 400 [Hz]	Sets the inverter output minimum frequency at minimum voltage of the V1 input.	0.00	0
19	A409	[V1 input Max voltage]	0 ~ 10 [V]	Sets the maximum voltage of the V1 input.	10	0
l10	A40A	[Frequency corresponding to I 9]	0 ~ 400 [Hz]	Sets the inverter output maximum frequency at maximum voltage of the V1 input.	60.00	0
l11	A40B	[Filter time constant for I input]	0 ~ 9999	Sets the input section's internal filter constant for I input.	10	0
l12	A40C	[I input Min current]	0 ~ 20 [mA]	Sets the minimum current of I input.	4.00	0
l13	A40D	[Frequency corresponding to I 12]	0 ~ 400 [Hz]	Sets the inverter output minimum frequency at minimum current of I input.	0.00	0
l14	A40E	[I input Max current]	0 ~ 20 [mA]	Sets the Maximum current of I input.	20.00	0
l15	A40F	[Frequency corresponding to I 14]	0 ~ 400 [Hz]	Sets the inverter output maximum frequency at maximum current of I input.	60.00	0
l16	A410	[Criteria for Analog Input Signal loss]	0~2	0 Disabled 1 activated below half of set value. 2 activated below set value.	0	0
l17	A411	[Multi-function input terminal P1 define]		Forward run command Reverse run command	0	0
l18	A412	[Multi-function input terminal P2 define]		Emergency Stop Trip Reset when a fault occurs {RST}	1	0
l19	A413	[Multi-function input terminal	0 ~ 27	4 Jog operation command 5 Multi-Step freq - Low	2	0
120	A414	P3 define] [Multi-function input terminal		6 Multi-Step freq - Mid	3	0
	/ / / / /	P4 define]		7 Multi-Step freq - High		

^{*} See ° Chapter 14 Troubleshooting and maintenance ° ± for External trip A/B contact. * Each multi-function input terminal must be set differently.

LED display	Address for communication	Parameter name	Min/Max range		Description							Factory defaults	Adj. during run
		[Multi-function		8	Multi Acc	cel/Dec	el - Low					_	
I21	A415	input terminal P5 define]		9	Multi Aco	cel/Dec	el - Mid					4	0
		[Multi-function		10	Multi Aco	cel/Dec	el - High						
122	A416	input terminal P6 define]		11	DC brake	e durin		5	0				
		[Multi-function		12	2nd moto								
123	A417	input terminal P7 define]		13	-Reserve	ed-						6	0
		r / delinej		14	-Reserve								
				15	11000110	,u	Frequer	ncy increa	se (UP)	commar	nd		
			0 ~ 27	16	Up-dowr	ا ا		ncy decre					
			0 27	17	3-wire or	neration		loy dooro	400 0011	iriaria (E	,01111)		
				18	External			FtΔ)					
				19	External	-		· ·					
		[Multi-function		20	Self-diag			L(D)					
124	A418	input terminal		21				on to V/F	onoratio	n		7	0
		P8 define]		22	2nd Sou		D operat	OII to V/I	operan)			
				23									
					23 Analog Hold24 Accel/Decel Disable								
								ialization					
					25 Up/Down Save Freq. Initialization26 JOG-FX								
				27	JOG-RX								
		[Input terminal		BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0		
125	A419	status display]		P8	P7	P6	P5	P4	P3	P2	P1	0	0
		[Output terminal		10	BIT		1 0	' -		ITO	1 1		
126	A41A	status display]			3A					МО		0	0
		[Filtering time			0, (.,				
		constant for		If the	value is se	et hiahe	r, the res	nonsiven	ess of th	e Input t	erminal		
127	A41B	Multi-function	1 ~ 15		ting slowe	_	.,	p 0		opar .		4	0
		Input terminal]		io got		•							
		[Multi-Step											
130	A41E	frequency 4]										30.00	0
		[Multi-Step											
I31	A41F	frequency 5]	0 ~ 400									25.00	0
		[Multi-Step	[Hz]	It can	not be set	greate	rthan F2	1 - [Max f	requenc	y].			
l32	A420	frequency 6]	[]									20.00	0
		[Multi-Step	-										
133	A421	frequency 7]									15.00	0	
		[Multi-Accel											
134	A422	time 1]								3.0	0		
		[Multi-Decel	0~ 6000	0									
135	A423	time 1]	[sec]							3.0			
		[Multi-Accel	[]										
136	A424	time 2]										4.0	



LED display	Address for communication	Parameter name	Min/Max range		Desc	ription		Factory defaults	Adj. during run
137	A425	[Multi-Decel time 2]						4.0	
138	A426	[Multi-Accel time 3]						5.0	
139	A427	[Multi-Decel time 3]						5.0	
140	A428	[Multi-Accel time 4]						6.0	
I41	A429	[Multi-Decel time 4]						6.0	
142	A42A	[Multi-Accel time 5]	0~ 6000 [sec]					7.0	
143	A42B	[Multi-Decel time 5]						7.0	
144	A42C	[Multi-Accel time 6]						8.0	
145	A42D	[Multi-Decel time 6]						8.0	
146	A42E	[Multi-Accel time 7]						9.0	
147	A42F	[Multi-Decel time 7]						9.0	
150	A432	[Analog output item select]	0~3	0 1 2 3	Output item Output freq. Output current Output voltage Inverter DC link voltage	Output to 10[\) 200V Max frequence 150 % AC 282V DC 400V	400V	0	0
I 51	A433	[Analog output level adjustment]	10~200 [%]		d on 10V.			100	0
152	A434	[Frequency detection level]			had ISA ad ISS Sand La			30.00	0
I 53	A435	[Frequency detection bandwidth]	0 ~ 400 [Hz]		when I54 or I55 is set to 0 ot be set higher than F21.	-4.		10.00	0
154	A436	[Multi-function output terminal select]		0 1 2	FDT-1 FDT-2 FDT-3			12	-
155	A437	[Multi-function relay select]	0 ~ 19	3 FDT-4 4 FDT-5					0

LED display	Address for communication	Parameter name	Min/Max range			Descript	ion		Factory defaults	Adj. during run
				10 11	Inverter Overheat (Command loss	OHt)				
				12	During Run				-	
				13	During Stop					
155	A437	[Multi-function	0 ~ 19	14	During constant ru				17	0
		relay select]		15	During speed sear				_	
				16 17	Wait time for run si Multi-function relay					
				18	Warning for cooling				_	
				19	Brake signal select					
					When setting the	When th	e trip	When the		
					H26 - [Number of	other tha	an low	low voltage trip		
					auto restart try]	voltage occurs	trip	occurs		
					Bit 2	Bit 1		Bit 0		
				0	-	-		-	-	
156	A438	[Fault relay output]	0 ~ 7	1	-	-		/	2	0
				2	-	✓		-		
			3	-	<u> </u>		/			
				4	/	-		-	-	
				5	✓ ✓	-			_	
				7	✓ ✓	/		-		
					Multi-function relay		Multi-fun	ction output terminal		
		[Output terminal			Bit 1		Bit 0			
157	A439	select when	0 ~ 3	0	-		-		0	0
107	71400	communication	0 0	1	-		<u> </u>			
		error occurs]		2	/		-			
				3 Set o	ommunication protoc	<u>^</u>				
159	A43B	[Communication	0 ~ 1	0	Modbus RTU	Ю.			0	×
	71.02	protocol select]		1	LS BUS					
160	A43C	[Inverter number]	1 ~ 250	Set fo	or RS485 communica	ation			1	0
				Selec	t the Baud rate of the	e RS485.				
				0	1200 [bps]					
I 61	A43D	[Baud rate]	0 ~ 4	1	2400 [bps]				3	0
				3	4800 [bps] 9600 [bps]					
				4	19200 [bps]					
					sed when freq comm	nand is giv	en via V1	/I terminal or		
	[Drive mode	[Drive mode		RS48	•	3				
162	A43E	select after loss	02	Continuous operation at the frequency before its					0	
102	MASE	of frequency	0~2	command is lost.						0
		command]		1	Free Run stop (Ou	tput cut-of	ff)			
				2	Decel to stop					



LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during run
163	A43F	[Wait time after loss of frequency command]	0.1 ~ 120 [sec]	frequ input	is the time inverter determines whether there is the input ency command or not. If there is no frequency command during this time, inverter starts operation via the mode ted at I62.	1.0	0
164	A440	[Communication time setting]	2 ~ 100 [ms]	Fram	e communication time	5	0
I 65	A441	[Parity/stop bit setting]	0~3	0 1 2 3	Parity: None, Stop Bit: 1 Parity: None, Stop Bit: 2 Parity: Even, Stop Bit: 1 Parity: Odd, Stop Bit: 1	0	0
166	A442	[Read address register 1]				5	
167	A443	[Read address register 2]				6	
168	A444	[Read address register 3]				7	-
169	A445	[Read address register 4]	0 40000	The ι	user can register up to 8 discontinuous addresses and read	8	0
170	A446	[Read address register 5]	0~42239	them	them all with one Read command.		0
l71	A447	[Read address register 6]					
172	A448	[Read address register 7]				11	
173	A449	[Read address register 8]				12	
174	A44A	[Write address register 1]				5	
175	A44B	[Write address register 2]				6	
176	A44C	[Write address register 3]				7	
177	A44D	[Write address register 4]	0.40000	The ι	user can register up to 8 discontinuous addresses and write	8	
178	A44E	[Write address register 5]	0~42239	them	all with one Write command	5	0
179	A44F	[Write address register 6]				6	
180	A450	[Write address register 7]				7	
I 81	A451	[Write address register 8]				8	-
182 1)	A452	[Brake open current]	0~180 [%]		current level to open the brake. et according to H33's (motor rated current) size	50.0	0

¹⁾ It is indicated when choosing I54~I55 as a 19 (Brake signal).

LED display	Address for communication	Parameter name	Min/Max range	Description	Factory defaults	Adj. during run
183	A453	[Brake open	0~10	Cata Braka anan dalu tima	1 00	
103	A455	delay time]	[s]	Sets Brake open dely time.	1.00	×
184	A454	[Brake open FX	0~400	Sets FX frequency to open the brake	4.00	
104	A454	frequency]	[Hz]	Sets FX frequency to open the brake	1.00	×
185	A455	[Brake open RX	0~400	Sets RX frequency to open the brake	1.00	
100	A455	frequency]	[Hz]	Sets not frequency to open the brake	1.00	×
186	A456	[Brake close	0~19	Cata dalay time to along the business	4.00	
100	A456	delay time]	[s]	Sets delay time to close the brake	1.00	×
187	A457	[Brake close	0~400	Cata fraguenay to along the broke		
107	H45/	frequency	[Hz]	Sets frequency to close the brake	2.00	×



Protective Functions

Keypad display	Protective functions	Descriptions
<u> </u>	Overcurrent	The inverter turns off its output when the output current of the inverter flows more than 200% of the inverter rated current.
<u>GFŁ</u>	Ground fault current	The inverter turns off its output when a ground fault occurs and the ground fault current is more than the internal setting value of the inverter.
	Inverter Overload	The inverter turns off its output when the output current of the inverter flows more than the rated level (150% for 1 minute).
<u> </u>	Overload trip	The inverter turns off its output if the output current of the inverter flows at 150% of the inverter rated current for more than the current limit time (1min).
<u> </u>	Heat sink overheat	The inverter turns off its output if the heat sink overheats due to a damaged cooling fan or an alien substance in the cooling fan by detecting the temperature of the heat sink.
bür	Output Phase loss	The inverter turns off its output when the one or more of the output (U, V, W) phase is open. The inverter detects the output current to check the phase loss of the output.
	Over voltage	The inverter turns off its output if the DC voltage of the main circuit increases higher than 400V when the motor decelerates. This fault can also occur due to a surge voltage generated at the power supply system.
[Lut	Low voltage	The inverter turns off its output if the DC voltage is below 180V because insufficient torque or overheating of the motor can occur when the input voltage of the inverter drops.
EEH	Electronic Thermal	The internal electronic thermal of the inverter determines the overheating of the motor. If the motor is overloaded, the inverter turns off the output. The inverter cannot protect the motor when driving a motor having more than 4 poles or multi motors.
	Input phase loss	Inverter output is blocked when one of R, S, T is open or the electrolytic capacitor needs to be replaced.
FLEL	Self-diagnostic malfunction	Displayed when IGBT damage, output phase short, output phase ground fault or output phase open occurs.
EEP	Parameter save error	Displayed when user-setting parameters fails to be entered into memory.
Hir	Inverter hardware fault	Displayed when an error occurs in the control circuitry of the inverter.
Err	Communication Error	Displayed when the inverter cannot communicate with the keypad.
rtrr	Remote keypad communication error	Displayed when the inverter and the remote keypad do not communicate with each other. It does not stop inverter operation.
	Keypad error	Displayed after the inverter resets the keypad when a keypad error occurs and this
FAn	Cooling fan fault	Displayed when a fault condition occurs in the inverter cooling fan.
ESE	Instant cut off	Used for the emergency stop of the inverter. The inverter instantly turns off the output when the EST terminal is turned on. Caution: The inverter starts to regular operation when turning off the EST terminal while FX or RX terminal is ON.
EFB	External fault A contact input	When multi-function input terminal (I20-I24) is set to 19 {External fault signal input A: (Normal Open Contact)}, the inverter turns off the output.
ELD	External fault B contact input	When multi-function input terminal (I20-I24) is set to 19 {External fault signal input B: (Normal Close Contact)}, the inverter turns off the output.
	Operating method when the frequency command is lost	When inverter operation is set via analog input (0-10V or 0-20mA input) or option (RS-485) and no signal is applied, operation is done according to the method set in I62 (Operating method when the frequency reference is lost).

Fault Remedy

Keypad display	Cause	Remedy
	Caution: When an overcurrent fault occurs, operation must be started after the cause is removed to avoid damage to IGBT inside the inverter.	
Overcurrent	Accel/Decel time is too short compared to the GD ² of the load. Load is greater than the inverter rating. Inverter output is issued when the motor is free running. Output short circuit or ground fault has occurred. Mechanical brake of the motor is operating too fast.	 → Increase the Accel/Decel time. → Replace the inverter with appropriate capacity. → Resume operation after stopping the motor or use H22 (Speed search). → Check output wiring. → Check the mechanical brake.
Ground fault current	Ground fault has occurred at the output wiring of the inverter. The insulation of the motor is damaged due to heat.	 → Check the wiring of the output terminal. → Replace the motor.
Inverter overload	Load is greater than the inverter rating.	→ Upgrade the capacity of motor and inverter or reduce the load weight.
Overload trip	Torque boost scale is set too large.	→ Reduce torque boost scale.
Heat sink overheat	Cooling system has faults. An old cooling fan is not replaced with a new one. Ambient temperature is too high.	 → Check for alien substances clogged in the heat sink. → Replace the old cooling fan with a new one. → Keep ambient temperature under 50° C.
Output Phase loss	Faulty contact of magnetic switch at output. Faulty output wiring.	 → Make connection of magnetic switch at output of the inverter securely. → Check output wiring.
Cooling fan fault	An alien substance is clogged in a ventilating slot. Inverter has been in use without changing a cooling fan.	→ Check the ventilating slot and remove the clogged substances. → Replace the cooling fan.
Over voltage	Decel time is too short compared to the GD ² of the load. Regenerative load is at the inverter output. Line voltage is too high.	 → Increase the Decel time. → Use Dynamic Brake Unit. → Check whether line voltage exceeds its rating.
Low voltage	Line voltage is low. Load larger than line capacity is connected to line (ex: welding machine, motor with high starting current connected to the commercial line). Faulty magnetic switch at the input side of the inverter.	→ Check whether line voltage is below its rating. → Check the incoming AC line. Adjust the line capacity corresponding to the load. → Change a magnetic switch.
Electronic thermal	Motor has overheated. Load is greater than inverter rating. ETH level is set too low. Inverter capacity is incorrectly selected. Inverter has been operated at low speed for too long.	→ Reduce load weight and operating duty. → Change inverter with higher capacity. → Adjust ETH level to an appropriate level. → Select correct inverter capacity. → Install a cooling fan with a separate power supply.
External fault A contact input		
External fault B contact input	The terminal set to "18 (External fault- A)" or "19 (External fault-B)" in I20-I24 in I/O group is ON.	Eliminate the cause of fault at circuit connected to external fault terminal or cause of external fault input.
Operating method when the frequency command is lost	No frequency command is applied to V1 and I.	Check the wiring of V1 and I and frequency reference level.
Remote keypad communication error	Communication error between inverter keypad and remote keypad.	→ Check for connection of communication line and connector.
EFP H''E	- EEP: Parameter save error - HWT: Hardware fault - Err: Communication Error - COM: Keypad error	→ Contact your LSIS sales distributor.

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- · For your safety, please read user's manual thoroughly before operating.
- · Contact the nearest authorized service facility for examination, repair, or adjustment.
- Please contact qualified service technician when you need maintenance Do not disassemble or repair by yourself!
- Any maintenance and inspection shall be performed by the personnel having expertise concerned.

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