Compact & Powerful Inverter STARVERT iG5A

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



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.

Standard compliance

Compactness

iG5A

High performance

mini

1222

Userfriendliness & Easy maintenance

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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

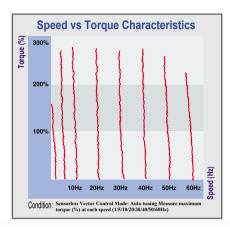
the superb speed control and powerful high torque.

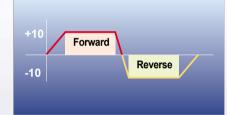
Ground-fault protection during running

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.

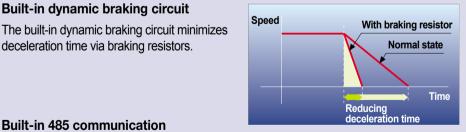




Built-in PID control

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

PDcontrol Plcontrol



Built-in 485 communication

📒 Built-in dynamic braking circuit

deceleration time via braking resistors.

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

iG5A

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.

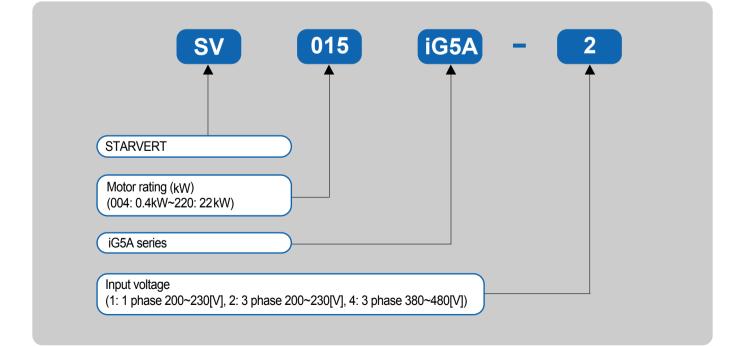
PNP/NPN input

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

iG5A

Applicable motor ranges	1 Phase 200V	3 Phase 200V	3 Phase 400V
0.4kW (0.5HP)		SV004iG5A-2	SV004iG5A-4
0.75kW (1HP)		SV008iG5A-2	
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

SV 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%)				
rating	Rated frequency	50~60 [Hz] (±5%)						
Cooling met	hod	Forced air cooling						
Weight (kg)		0.76 1.12 1.84						

3 Phase 200V

SV iG5A-2		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	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 [Hz] ⁴)											
	Max voltage	3 phase 200~230V ⁵⁾											
Input	Rated voltage	3 phase 200~230 (+10%, -15%)											
rating	Rated frequency	50~60 [Hz] (±5%)											
Cooling method		N/C ⁶⁾					Fo	orced 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	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	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 380~480V ⁵⁾											
Input	Rated voltage	3 phase 380~480 VAC (+10%, -15%)											
rating	Rated frequency	50~60 [Hz] (±5%)											
Cooling met	nod	N/C ⁶⁾					Fo	orced 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

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

iG5A

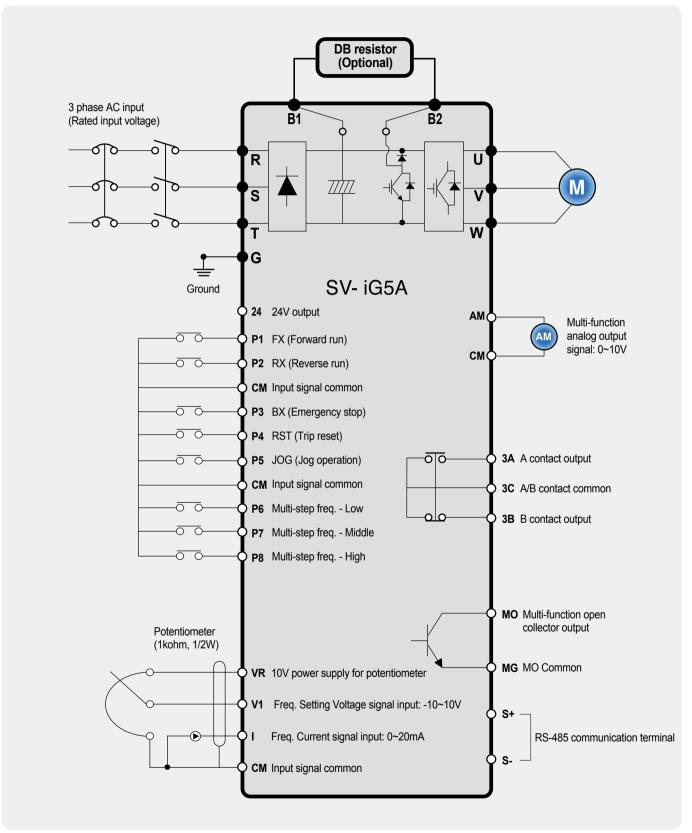
	Contro	l metho	d	V/F, Sensorless vector c	control				
	Freque	ncy set	ting resolution	Digital command: 0.01H Analog command: 0.06H	Z				
	Frequency accuracy		curacy	Digital command: 0.01% of Max. output frequency Analog command: 0.1% of Max. output frequency					
Control	V/F pat	tern		Linear, Squared, User V	/F				
	Overloa	ad capa	acity	150% per 1 min.					
	Torque	boost		Manual/Auto torque boo	st				
	Dynam braking		Max. braking torque	20% 1)					
			Max. Duty	150% when using optional DB resistor ²⁾					
	Operat	ion mo	de	Keypad/ Terminal/ Comr	nunication option/ Remote keypad selectable				
	Freque	ncy set	ting	Analog: 0∼10V, -10∼10∖ Digital: Keypad	/, 0~20mA				
	Operat	Operation features		PID, Up-down, 3-wire					
				NPN/PNP selectable					
Operation	Input	Multi-function terminal P1~P8		Multi-step Accel/Decel-H 3-wire operation, Externa	ency stop, Fault reset, Jog operation, Multi-step Frequency-High, Mid, Low, ligh, Mid, Low, DC braking at stop, 2nd motor select, Frequency UP/Down, al trip A, B, PID-Inverter (V/F) operation bypass, eration bypass, Analog Hold, Accel/Decel stop				
		Open collector terminal		Fault output and inverter status output	Less than DC 24V, 50mA				
	Output	Multi	-function relay		(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	1		Motor overheat, Output p	age, Over current, Ground fault current detection, Inverter overheat, bhase open, Overload protection, Communication error, l, Hardware fault, Fan trip				
Protective function	Alarm			Stall prevention, Overloa	ld				
	Momen	ntary po	ower loss	Below 15 msec.: Continu Above 15 msec.: Auto re	uous operation (Should be within rated input voltage, rated output power.) estart enable				
	Protection degree		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	tion	Below 1,000m, 5.9m/sec	5² (0.6G)				
	Atmos	pheric p	oressure	70~106 kPa					
	Locatio	on		Protected from corrosive gas, Combustible gas, Oil mist or dust					

1) Means average braking torque during Decel to stop of a motor.

2) Refer to Chapter 16 of user's manual for DB resistor specification.

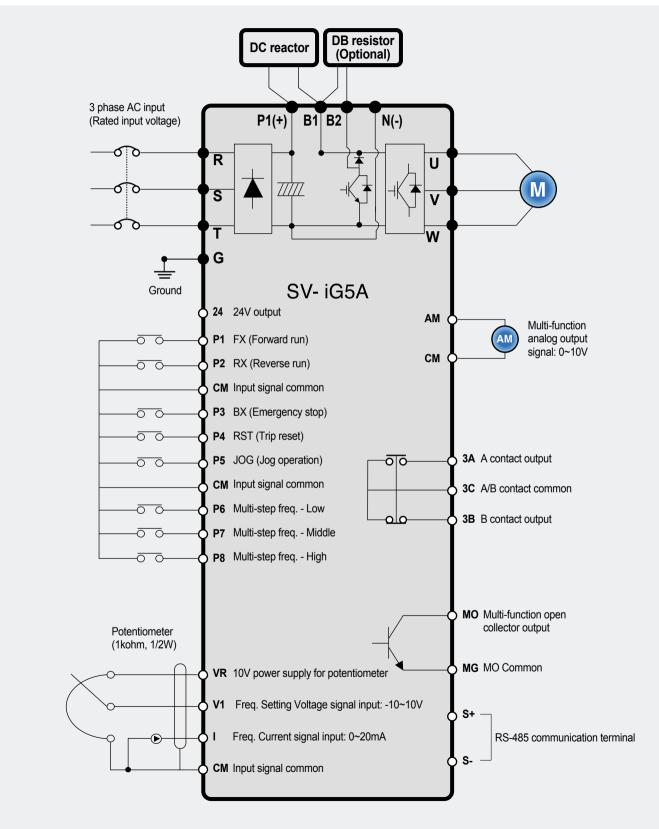
Wiring

0.4~7.5kW





11.0~22.0kW



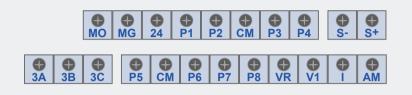
Terminal Configuration

Specifications for power terminal block wiring

0.4kW~0.75kW (1 pha	ise)	• 0.4	kW~1.5kW ((3 phase)		• 1.5kW	(1 phase)		
R T B1	B2 P V W		S T	• • • • • • • • • • • • • • • • • • •	B2VV		• •		
5.5kW~7.5kW (3 phas	ie)						S T B1 B2	U V W	
$\mathbf{\Theta}$					• 11~22kW	V (3 phase)			
B1 B2 U Image: B1 I	<u>v</u> w						● ● ● ● ● 1(+) B1 B2 N(-)		
	R, S, T	wire	U, V, W	/ wire	Groun	d wire	Terminal	Screw Torque	
	mm ²	AWG	mm ²	AWG	mm ²	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	



Control terminal specifications



Torminal	Description	Wire siz	e (mm²)	Screw size	1) Torque (Nm)	Specification	
Terminal	Description	Single wire Stranded		Screw Size	Torque (NIII)	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	
I	Input terminal for current operation	1.0	1.5	M2.6	0.4	0~20mA input Internal resistor: 500ohm	
АМ	Multi-function analog output terminal	1.0	1.5	M2.6	0.4	Max. output voltage: 11V Max. output current: 100mA	
MO	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.

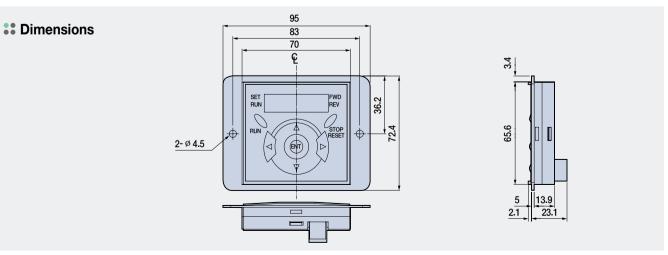


Keypad Features



	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.				
		Up key	Used to scroll through codes or increase parameter value				
	▼	Down key	Used to scroll through codes or decrease parameter value				
KEY	►	Right key	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				
	RUN	Run key	Lit during operation				
	SET	Setting	Lit during parameter setting				

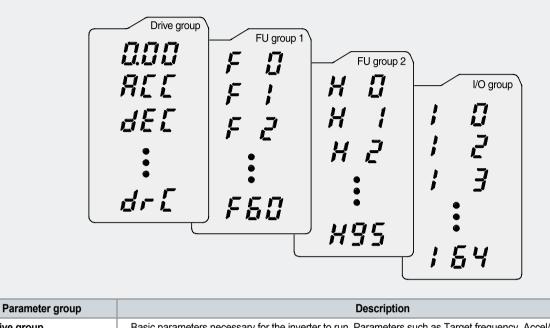
1) 4 LEDs above are set to blink when a fault occurs.



Moving to Other Groups

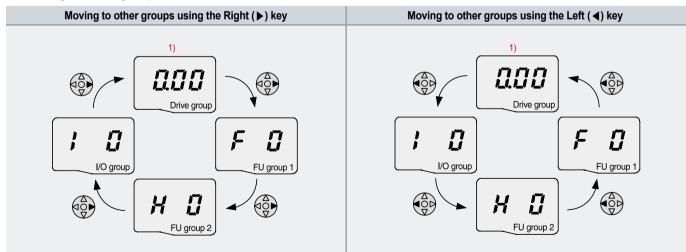
****** Parameter groups

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



- .	· ·
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

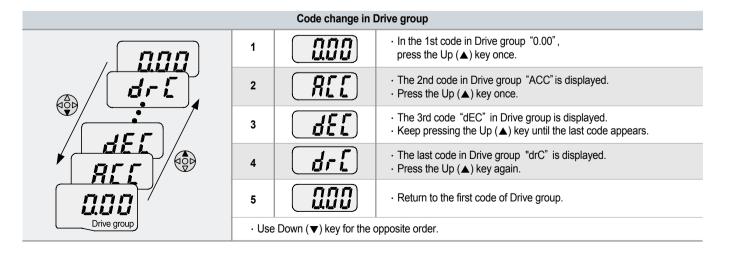


1) Target frequency can be set at 0.0 (the 1st code of drive group). Even though the preset value is 0.0, it is user-settable. The changed frequency will be displayed after it is changed.

	When changing ACC time from 5.0 sec to 16.0 sec								
	BCC BCC SD ISD Drive group								
1		• In the first code "0.00", press the Up (\blacktriangle) key once to go to the second code.							
2		 ACC [Accel time] is displayed. Press the Ent (●) key once. 							
3		 Preset value is 5.0, and the cursor is in the digit 0. Press the Left (◀) key once to move the cursor to the left. 							
4	5	 The digit 5 in 5.0 is active. Then press the Up (▲) key once. 							
5	5 .	 The value is increased to 6.0 Press the Left (◀) key to move the cursor to the left. 							
6		 0.60 is displayed. The first 0 in 0.60 is active. Press the Up (▲) key once. 							
7		 16.0 is set. Press the Ent (•) key once. 16.0 is blinking. ¹⁾ Press the Ent (•) key once again to return to the parameter name. 							
8		ACC is displayed. Accel time is changed from 5.0 to 16.0 sec.							

 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.



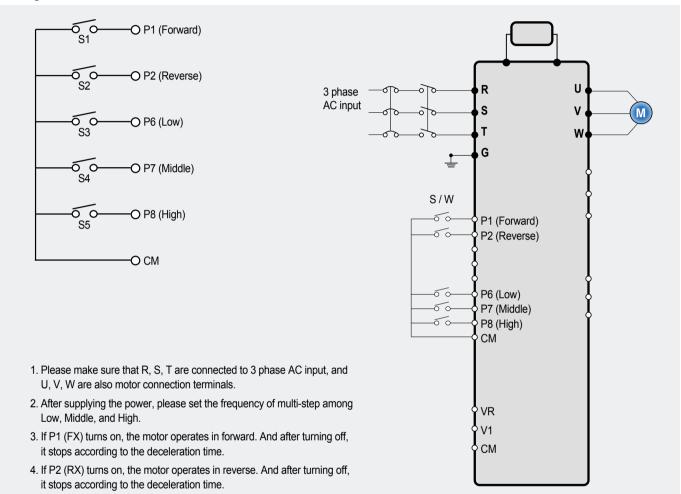


Multi-step operation + Run/Stop via FX/RX + Max. frequency change

Operation condition

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

Wiring

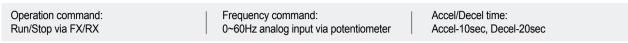


Parameter setting

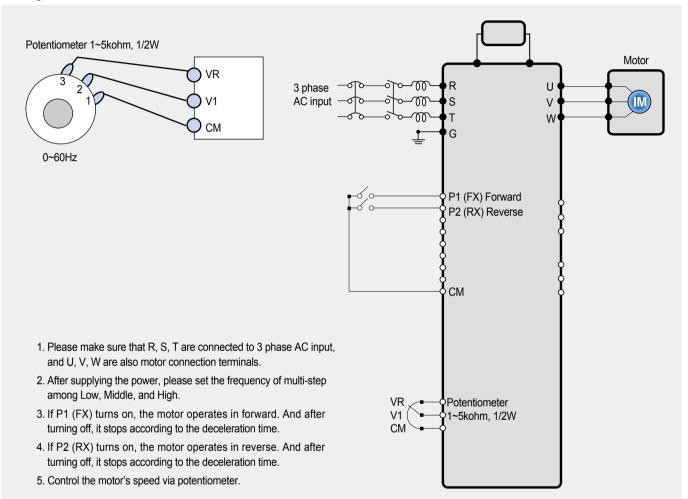
Step	Command	Code	Description	Default	After change
1	Max. frequency change (FU1)	F21	Change Max. frequency.	60Hz	80Hz
2	Multi-step frequency (DRV)	st1	Set 'Low' step.	10Hz	20Hz
3	Multi-step frequency (DRV)	st2	Set 'Middle' step.	20Hz	30Hz
4	Multi-step frequency (I/O)	130	Set 'High' step.	30Hz	80Hz
5	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



Wiring

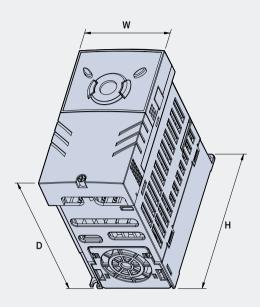


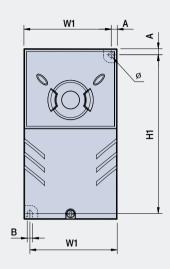
Parameter setting

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 (DRV group)	ACC dEC	Set Accel time to 10sec in ACC Set Decel time to 20sec in dEC.	5sec (Accel) 10sec (Decel)	10sec (Accel) 20sec (Decel)
4	Forward run (P1: FX)	117	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



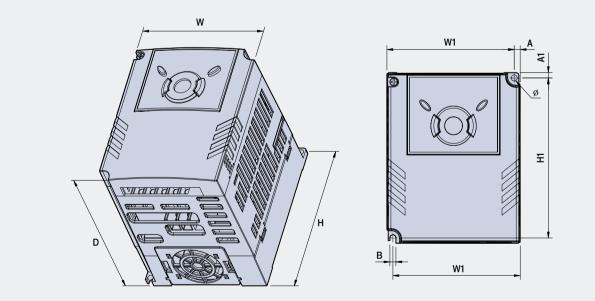
SV004iG5A-2 / SV008iG5A-2, SV004iG5A-4 / SV008iG5A-4





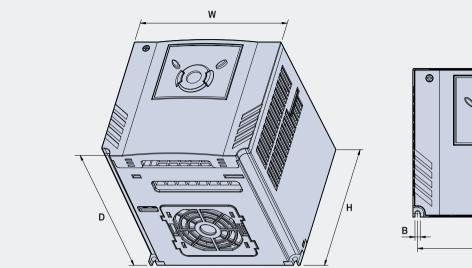
									mr	n (inches)
Inverter model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	ø	A (mm)	B (mm)	(kg)
SV004IG5A-2	0.4	70	65.5	128	119	130	4.0	4.5	4.0	0.76
SV008IG5A-2	0.75	70	65.5	128	119	130	4.0	4.5	4.0	0.77
SV004IG5A-4	0.4	70	65.5	128	119	130	4.0	4.5	4.0	0.76
SV008IG5A-4	0.75	70	65.5	128	119	130	4.0	4.5	4.0	0.77

SV015iG5A-2 / SV015iG5A-4

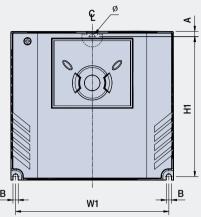


mm (inches)

Inverter model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	ø	A (mm)	B (mm)	(kg)
SV015IG5A-2	1.5	100	95.5	128	120	130	4.5	4.5	4.5	1.12
SV015IG5A-4	1.5	100	95.5	128	120	130	4.5	4.5	4.5	1.12



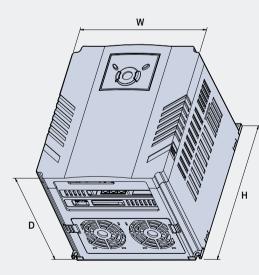
** SV022iG5A-2 / SV037iG5A-2 / SV040iG5A-2, SV022iG5A-4 / SV037iG5A-4 / SV040iG5A-4

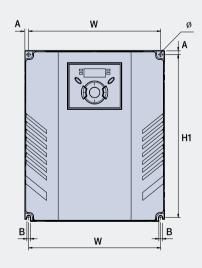


mm (inches)

Inverter model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	ø	A (mm)	B (mm)	(kg)
SV022IG5A-2	2.2	140	132	128	120.5	155	4.5	4.5	4.5	1.84
SV037IG5A-2	3.7	140	132	128	120.5	155	4.5	4.5	4.5	1.89
SV040IG5A-2	4.0	140	132	128	120.5	155	4.5	4.5	4.5	1.89
SV022IG5A-4	2.2	140	132	128	120.5	155	4.5	4.5	4.5	1.84
SV037IG5A-4	3.7	140	132	128	120.5	155	4.5	4.5	4.5	1.89
SV040IG5A-4	4.0	140	132	128	120.5	155	4.5	4.5	4.5	1.89

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



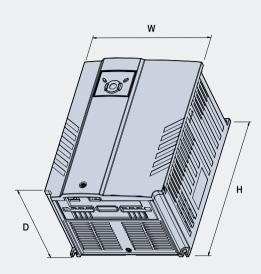


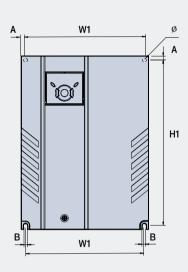
mm (inches)

Inverter model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	ø	A (mm)	B (mm)	(kg)
SV055IG5A-2	5.5	180	170	220	210	170	4.5	5	4.5	3.66
SV075IG5A-2	7.5	180	170	220	210	170	4.5	5	4.5	3.66
SV055IG5A-4	5.5	180	170	220	210	170	4.5	5	4.5	3.66
SV075IG5A-4	7.5	180	170	220	210	170	4.5	5	4.5	3.66



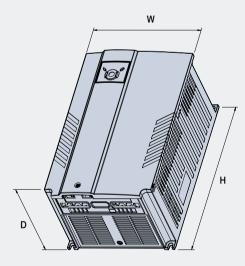
SV110iG5A-2 / SV150iG5A-2 / SV110iG5A-4 / SV150iG5A-4

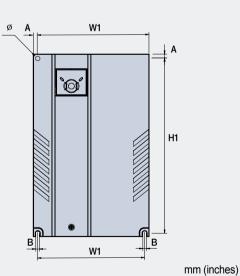




									mr	n (inches)
Inverter model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	ø	A (mm)	B (mm)	(kg)
SV110iG5A-2	11.0	235	219	320	304	189.5	7.0	8.0	7.0	9.00
SV150iG5A-2	15.0	235	219	320	304	189.5	7.0	8.0	7.0	9.00
SV110iG5A-4	11.0	235	219	320	304	189.5	7.0	8.0	7.0	9.00
SV150iG5A-4	15.0	235	219	320	304	189.5	7.0	8.0	7.0	9.00

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





	1				1					
Inverter model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	ø	A (mm)	B (mm)	(kg)
SV185iG5A-2	18.5	260	240	410	392	208.5	10.0	10.0	10.0	13.3
SV220iG5A-2	22.0	260	240	410	392	208.5	10.0	10.0	10.0	13.3
SV185iG5A-4	18.5	260	240	410	392	208.5	10.0	10.0	10.0	10.0
SV220iG5A-4	22.0	260	240	410	392	208.5	10.0	10.0	10.0	10.0

Braking Resistors and Peripheral Devices

Braking resistors

Veltere Inverter		100% b	oraking	150% b	raking
Voltage Inverter		Resistor [Ω]	Watt [W] ¹⁾	Resistor [Ω]	Watt [W] 1)
	0.4	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.

Breakers

Model	MCCB, ELCB (LS)	MC	Model	MCCB, ELCB (LS)	MC
004iG5A-1	TD125U,EBs33	GMC-9	220iG5A-2	TS250U,EBs53	GMC-125
008iG5A-1	TD125U,EBs33	GMC-9	004iG5A-4	TD125U,EBs33	GMC-9
015iG5A-1	TD125U,EBs33	GMC-12	008iG5A-4	TD125U,EBs33	GMC-9
004iG5A-2	TD125U,EBs33	GMC-9	015iG5A-4	TD125U,EBs33	GMC-9
008iG5A-2	TD125U,EBs33	GMC-9	022iG5A-4	TD125U,EBs33	GMC-12
015iG5A-2	TD125U,EBs33	GMC-12	037iG5A-4	TD125U,EBs33	GMC-18
022iG5A-2	TD125U,EBs33	GMC-18	040iG5A-4	TD125U,EBs33	GMC-18
037iG5A-2	TD125U,EBs33	GMC-32	055iG5A-4	TD125U,EBs33	GMC-32
040iG5A-2	TD125U,EBs33	GMC-32	075iG5A-4	TD125U,EBs33	GMC-32
055iG5A-2	TD125U,EBs53	GMC-40	110iG5A-4	TD125U,EBs53	GMC-40
075iG5A-2	TD125U,EBs53	GMC-50	150iG5A-4	TD125U,EBs53	GMC-50
110iG5A-2	TD125U,EBs53	GMC-65	185iG5A-4	TD125U,EBs53	GMC-65
150iG5A-2	TD125U,EBs53	GMC-100	220iG5A-4	TD125U,EBs53	GMC-65
185iG5A-2	TD250U,EBs53	GMC-100			

Braking Resistors and Peripheral Devices

****** Fuses & AC reactors

Medel	AC exte	ernal fuse	AO	DO monton
Model	Current [A]	Voltage [V]	AC reactor	DC reactor
004iG5A-1	10 A	600V	4.20 mH, 3.5 A	-
008iG5A-1	10 A	600V	2.13 mH, 5.7 A	-
015iG5A-1	15 A	600V	1.20 mH, 10 A	-
004iG5A-2	10 A	600V	4.20 mH, 3.5 A	-
008iG5A-2	10 A	600V	2.13 mH, 5.7 A	-
015iG5A-2	15 A	600V	1.20 mH, 10 A	-
022iG5A-2	25 A	600V	0.88 mH, 14 A	-
037iG5A-2	30 A	600V	0.56 mH, 20 A	-
040iG5A-2	30 A	600V	0.56 mH, 20 A	-
055iG5A-2	30 A	600V	0.39 mH, 30 A	-
075iG5A-2	50 A	600V	0.28 mH, 40 A	-
110iG5A-2	70 A	600V	0.20 mH, 59 A	0.74 mH, 56 A
150iG5A-2	100 A	600V	0.15 mH, 75 A	0.57 mH, 71 A
185iG5A-2	100 A	600V	0.12 mH, 96 A	0.49 mH, 91 A
220iG5A-2	125 A	600V	0.10 mH, 112 A	0.42 mH, 107 A
004iG5A-4	5 A	600V	18.0 mH, 1.3 A	-
008iG5A-4	10 A	600V	8.63 mH, 2.8 A	-
015iG5A-4	10 A	600V	4.81 mH, 4.8 A	-
022iG5A-4	10 A	600V	3.23 mH, 7.5 A	-
037iG5A-4	20 A	600V	2.34 mH, 10 A	-
040iG5A-4	20 A	600V	2.34 mH, 10 A	-
055iG5A-4	20 A	600V	1.22 mH, 15 A	-
075iG5A-4	30 A	600V	1.14 mH, 20 A	-
110iG5A-4	35 A	600V	0.81 mH, 30 A	2.76 mH, 29 A
150iG5A-4	45 A	600V	0.61 mH, 38 A	2.18 mH, 36 A
185iG5A-4	60 A	600V	0.45 mH, 50 A	1.79 mH, 48 A
220iG5A-4	70 A	600V	0.39 mH, 58 A	1.54 mH, 55 A

Function List

3 Drive Group

LED display	Address for communication	Parameter name	Min/Max range		l	Description	Factory defaults	Adj. during run
0.00	A100	[Frequency command]	0 ~ 400 [Hz]	comr Durin Durin Durin Multi-	This parameter sets the frequency that the inverter is commanded to output. During Stop: Frequency Command During Run: Output Frequency During Multi-step operation: Multi-step frequency 0. It cannot be set greater than F21- [Max frequency].			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	Accel/Decel time 0.			0
drv	A103	[Drive mode]	0~3	0 1 2 3 4	Run/Stop via Run/S Terminal operation RS485 communicat Set to Field Bus cor		1	×
Frq	A104	[Frequency setting method]	0~7	0 1 2 3 4 5 6 7 8 9	Digital Analog RS485 communicat Digital Volume Set to Field Bus cor		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 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	Displays DC link voltage inside the inverter.			-
vOL	A10B	[User display select]			parameter displays the select]. Output voltage Output power Torque	e item selected at H73- [Monitoring	vOL	-

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



Chive Group

LED display	Address for communication	Parameter name	Min/Max range		I	Factory defaults	Adj. during run	
nOn	A10C	[Fault Display]				, frequency and operating status at the	_	_
		[time of the fault				
		[Direction of				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		
				1		FX: Motor forward run		
					Terminal operation	RX: Motor reverse run		
drv2	A10E	[Drive mode 2]	0~3	2		FX: Run/Stop enable	1	×
						RX: Reverse rotation select		
				3	RS-485 communica			
				4	Set to Filed Bus Cor			
				0	Digital	Keypad setting 1		
				1	5.4	Keypad setting 2		
				2	-	V1 1: -10 ~ +10 [V]		
		[Frequency		3		V1 2: 0 ~ +10 [V]		
Frq2 ¹⁾	A10F	setting	0~7	4	Analog	Terminal I: 0 ~ 20 [mA]	0	×
		method 2]		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			3 is 1, it is expressed a	••	0.00	0
		value setting	0~100 [%]	In [Hz] unit, you can't set Max. frequency more than (F21).				
				In [%] unit, 100% means Max. frequency.				
Eby ²⁾		PID control		It indicates a feedback amount in PID control.				
Fbk ²⁾	A111	feedback			3 is 0, it is expressed a		-	-
		amount		If H58	3 is 1, it is expressed a	as a [%] unit.		

Only displayed when one of the Multi-function input terminals 1-8 [I17~I24] is set to "22".
 It is indicated when H49(PID control selection) is 1.
 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 0	A200	[Jump code]	0~71	Sets t	Sets the parameter code number to jump.		0
F 1	A201	[Forward/ Reverse run disable]	0~2	0 1 2	Fwd and rev run enable Forward run disable Reverse run disable	0	x
F 2	A202	[Accel pattern]	0~1	0	Linear	0	×
F 3	A203	[Decel pattern]	0~1	1	S-curve	0	

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]	1	n DC brake frequency is reached, the inverter holds the It 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]	I	parameter sets the time taken to apply DC current to a r while 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]	1	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]		This parameter applies the current to a motor for the set time before motor accelerates during Sensorless vector control.		×
F20	A214	[Jog frequency]	0 ~ 400 [Hz]	I .	parameter sets the frequency for Jog operation. not be set above F21 - [Max frequency].	10.00	0
F21 ²⁾	A215	[Max frequency]	40 ~ 400 [Hz]	It is fr	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]	1	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. not be set above F21 - [Max frequency].	60.00	×
F26	A21A	[Frequency low limit]	0.1 ~ 400 [Hz]	This parameter sets low limit of the run frequency. It cannot be set above F25 - [Frequency high limit] and below F23 - [Start frequency].		0.50	×
F27	A21B	[Torque Boost select]	0~1	0 Manual torque boost 1 Auto torque boost		0	×
F28	A21C	[Torque boost in forward direction]	0~15	This parameter sets the amount of torque boost applied to a motor during 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 g reverse 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.



:: Function group 1

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

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

:: Function group 1

LED display	Address for communication	Parameter name	Min/Max range			Factory defaults	Adj. during run		
F56	A238	[Overload trip select]	0~1		parameter turns off tl oaded.	1	0		
F57	A239	[Overload trip level]	30 ~ 200 [%]		parameter sets the a value is the percenta	180	0		
F58	A23A	[Overload trip time]	0 ~ 60 [Sec]	[Over	parameter turns off t load trip level] of cur load trip time].	60	0		
F59	A23B	[Stall prevention select]	0~7	decel	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				×
F60	A23C	[Stall prevention level]	30 ~ 200 [%]	preve	This parameter sets the amount of current to activate stall prevention function during Accel, Constant or Decel run. The set value is the percentage of the H33- [Motor rated current].				×
F61 ¹⁾	A23D	[When Stall prevention during deceleration, voltage limit select	0~1		all prevention run dur it voltage, select 1	ring deceleration, if y	ou want to limit		
F63	A23F	[Save up/down frequency select]	0~1	durin	g up/down operation	/hether to save the s p/down frequency is		0	×
F64 2)	A240	[Save up/down frequency]			· · ·	cy' is selected at F63 re the inverter stops	•	0.00	×
F65	A241	[Up-down mode select]	0~2	We can select up-down mode among three thing 0 Increases goal frequency as a standard of Max. frequency/Min. frequency 1 Increases as many as step frequency according to edge input 2 Available to combine 1 and 2				0	×
F66	A242	[Up-down step frequency]	0~400 [Hz]	In case of choosing F65 as a 1 or 2, it means increase or decrease of frequency according to up-down input			0.00	×	
F70	A246	[Draw run mode select]	0~3	0 Inverter doesn't run as a draw mode 1 V1(0~10V) input draw run 2 I(0~20mA) input draw run 3 V1(-10~10V) input draw run				- 0	×
F71	A247	[Draw rate]	0~100[%]	Sets	rate of draw			0.00	0

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



Function group 2

LED display	Address for communication	Parameter name	Min/Max range		De	escript	ion	Factory defaults	Adj. during rui
H 0	A300	[Jump code]	0~95	Sets the	e code number to jurr	ıp.		1	0
H 1	A301	[Fault history 1]	-					nOn	-
H 2	A302	[Fault history 2]	-	Stores i	information on the typ	es of fa	aults, the frequency, the	nOn	-
H 3	A303	[Fault history 3]	-	current	and the Accel/Decel	conditio	on at the time of fault. The	nOn	-
H 4	A304	[Fault history 4]	-	latest fa	ault is automatically st	ored in	the H 1- [Fault history 1].	nOn	-
H 5	A305	[Fault history 5]	-					nOn	-
H 6	A306	[Reset fault history]	0~1	Clears t	the fault history saved	d in H 1	-5.	0	0
H 7	A307	[Dwell frequency]	0.1~400 [Hz]	dwell fre [Dwell fr	equency is applied to	the mo within	or starts to accelerate after tor during H8- [Dwell time]. the range of F21- [Max y].	5.00	×
H 8	A308	[Dwell time]	0~10 [sec]	Sets the	e time for dwell opera	tion.		0.0	×
H10	A30A	[Skip frequency select]	0~1		e frequency range to a nce and vibration on t		•	0	×
H11 <mark>1)</mark>	A30B	[Skip frequency low limit 1]						10.00	×
H12	A30C	[Skip frequency high limit 1]						15.00	×
H13	A30D	[Skip frequency low limit 2]	0.1~400				the range of H11 thru H16. nbered parameters cannot be	20.00	×
H14	A30E	[Skip frequency high limit 2]	[Hz]		ve those of the high r f F21 and F23.	number	ed 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 [%]		speed reference valu ecel. If it is set higher,		m a curve at the start during zone gets smaller.	40	×
H18	A312	[S-Curve accel/ decel end side]	1~100 [%]		speed reference value		m a curve at the end during zone gets smaller.	40	×
H19	A313	[Input/output phase loss protection select]	0~3	2	Disabled Input phase protection	1 3	Output phase protection Input/output phase protection	0	0
H20	A314	[Power On Start select]	0~1	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	0
H21	A315	[Restart after fault reset selection]	0~1	This parameter is activated when drv is set to 1 or 2 (Run/Stop via Control terminal). Motor accelerates after the fault condition is reset while the FX or RX terminal is ON.				0	0

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

:: Function group 2

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	· ·		 tive to prevent a coltage to the rur 2. Restart after instant power failure - - - - 2. Restart after instant power failure Bit 2 ✓ ✓ ✓ - -<td>nning motor. 3. Operation</td><td> 4. Normal accel - - - - 4. Normal accel Bit 0 - -<!--</td--><td>0</td><td>0</td></td>	nning motor. 3. Operation	 4. Normal accel - - - - 4. Normal accel Bit 0 - -<!--</td--><td>0</td><td>0</td>	0	0
H23	A317	[Current level during Speed search]	80~200 [%]	· ·		the amount of percentage of the	-	-	100	0
H24	A318	[P gain during Speed search]	0~9999	It is th	e Proportional	gain used for S	peed Search P	I controller.	100	0
H25	A319	[I gain during speed search]	0~9999			used for Speed			200	0
H26	A31A	[Number of Auto Restart try]	0~10	occurs restar {Run/s	s. Auto Restart t tries. This fun Stop via contro	the number of r is deactivated i ction is active w I terminal}. Dea DHT, LVT, EXT	if 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 betwee	en restart tries.		1.0	0
H30	A31E	[Motor type select]	0.2~ 22.0		0.2 ~ 22.0		0.2k ~ 22.0		7.5 <mark>2</mark>)	×
H31	A31F	[Number of motor poles]	2~12	This s	etting is display	yed via rPM in c	drive group.		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.



Function group 2

LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during run
H32	A320	[Rated slip frequency]	0 ~ 10 [Hz]		$f_{S} = f_{T} - \left[\frac{rpm \times p}{120}\right]$ Where, f_{S} = Rated slip frequency f_{T} = Rated frequency rpm = Motor nameplate RPM p = Number of Motor poles		×
H33	A321	[Motor rated current]	0.5~150 [A]	Enter n	notor rated current on the nameplate.	26.3	×
H34	A322	[No Load Motor Current]	0.1~ 50 [A]	rated r Enter t	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].		×
H36	A324	[Motor efficiency]	50~100 [%]	Enter tl	he motor efficiency (see motor nameplate).	87	×
H37	A325	[Load inertia rate]	0~2	0	one of the following according to motor inertia. Less than 10 times About 10 times More than 10 times	0	×
H39	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 1	{Volts/frequency Control} {Slip compensation control} {Sensorless vector control}	0	×
H41	A329	[Auto tuning]	0~1	If this p	harameter is set to 1, it automatically measures parameters 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 (L <i>o</i>)]	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]			or Sensorless control	100	0
H47	A32F	[Sensorless 100 torque limit])~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. 0 Normal PWM mode 1 2 phase PWM mode		0	×
H49	A331	PID select	0~1		s 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.

:: Function group 2

LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during rur
H50 ¹⁾	A332	[PID F/B select]	0~1	0	Terminal I input (0 ~ 20 mA)	0	
1150 07	A002		U I	1	Terminal V1 input (0 ~ 10 V)	U	×
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
H54	A336	[PID control mode select]	0~1	Selec 0 1	cts PID control mode Normal PID control Process PID control	0	×
H55	A337	[PID output frequency high limit]	0.1 ~ 400 [Hz]		parameter limits the amount of the output frequency through PID 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		cts PID standard value. dard value is indicated in "rEF" of Drive group. Loader digital setting 1 Loader digital setting 2 V1 terminal setting 2: 0~10V I terminal setting: 0~20mA Setting as a RS-485 communication	0	×
H58	A33A	PID control unit select	0~1	Selec 0 1	cts a unit of the standard value or feedback amount. Frequency[Hz] Percentage[%]	0	×
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]	contro	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	Sets	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 Accel/Decel]	0~1	0	Based on Max freq (F21) Based on Delta freq.	0	×

Set H49 to 1 (PID control) to display this parameter.
 Set H49 as a 1
 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%).



Function group 2

LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during ru
		[Accel/Decel		0	Settable unit: 0.01 second.		
H71	A347	time scale]	0~2	1	Settable unit: 0.1 second.	1	0
				2	Settable unit: 1 second.		
				· ·	parameter selects the parameter to be displayed on the		
				keypa	ad when the input power is first applied.		
				0	Frequency command		
				1	Accel time		
				2	Decel time		
				3	Drive mode		
				4	Frequency mode		
				5	Multi-Step frequency 1		
				6	Multi-Step frequency 2		
H72	A348	[Power on	0~15	7	Multi-Step frequency 3	0	0
П/ 2	A340	display]	0~15	8	Output current	0	0
				9	Motor rpm		
				10	Inverter DC link voltage		
				11	User display select (H73)		
				12	Fault display		
				13	Direction of motor rotation select		
				14	Output current 2		
				15	Motor rpm 2		
				16	Inverter DC link voltage 2		
				17	User display select 2		
					of the following can be monitored via vOL - [User display		
				selec			
H73	A349	[Monitoring	0~2	0	Output voltage [V]	0	0
		item select]	<u> </u>	1	Output tokago [1] Output power [kW]	Ŭ	
				2	Torque [kgf · m]		
		[Gain for Motor	1 ~ 1000		parameter is used to change the motor rotating speed		
H74	A34A	rpm display]			n) to mechanical speed (m/mi) and display it.	100	0
		[DB resistor	[%]				
1175	A24D		0 1	0	Unlimited	4	
H75	A34B	operating rate	0~1	1	Use DB resistor for the H76 set time.	1	0
		limit select]	0 00				
H76	A34C	[DB resistor	0~30		he percent of DB resistor operating rate to be activated	10	0
		operating rate]	[%]		g one sequence of operation.		
				0	Always ON		
H77 1)	A34D	[Cooling fan	0~1		Keeps ON when its temp is higher than inverter protection	0	0
		control]		1	limit temp. Activated only during operation when its temp		
					is below that of inverter protection limit.		
		[Operating		0	Continuous operation when cooling fan malfunctions.		
H78	A34E	method select	0~1			0	0
	when cooling fan	1	Operation stopped when cooling fan malfunctions.	0	0		
		malfunctions]					
H79	A34F	[S/W version]	0~10.0	This p	parameter displays the inverter software version.	1.0	×

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

Function group 2

LED display	Address for communication	Parameter name	Min/Max range	Description	Factory defaults	Adj. during run
H81 <mark>1</mark>)	A351	[2 nd motor Accel time]	0 ~ 6000		5.0	0
H82	A352	[2 nd motor [sec Decel time]]		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	5	×
H87	A347	[2 nd motor stall prevention level]	30~150 [%]	117-l24 is set to 12 {2 nd 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 0.1~ rated current]	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	×
H93	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 register]	0 ~ FFFF	Password for H95-[Parameter lock]		0
H95	A35F	[Parameter lock]	0 ~ FFFF	This parameter is able to lock or unlock parameters by typing password registered in H94. UL (Unlock) Parameter change enable L (Lock) Parameter change disable	0	0

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



Input/output group

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 \sim +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
110	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
111	A40B	[Filter time constant for I input]	0 ~ 9999	Sets the input section's internal filter constant for I input.	10	0
112	A40C	[l input Min current]	0 ~ 20 [mA]	Sets the minimum current of I input.	4.00	0
113	A40D	[Frequency corresponding to I 12]	0 ~ 400 [Hz]	Sets the inverter output minimum frequency at minimum current of I input.	0.00	0
114	A40E	[I input Max current]	0 ~ 20 [mA]	Sets the Maximum current of I input.	20.00	0
115	A40F	[Frequency corresponding to I 14]	0~400 [Hz]	Sets the inverter output maximum frequency at maximum current of I input.	60.00	0
116	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
117	A411	[Multi-function input terminal P1 define]		 Forward run command Reverse run command 	0	о
118	A412	[Multi-function input terminal P2 define]	0.07	 2 Emergency Stop Trip 3 Reset when a fault occurs {RST} 	1	о
119	A413	[Multi-function input terminal P3 define]	0~27	4 Jog operation command5 Multi-Step freq - Low	2	о
120	A414	[Multi-function input terminal P4 define]		Multi-Step freq - Mid Multi-Step freq - High	3	о

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

Input/output group

LED display	Address for communication	Parameter name	Min/Max range				Dese	cription				Factory defaults	Adj. during run
104	A 445	[Multi-function		8 Multi Accel/Decel - Low									
121	A415	input terminal P5 define]		9 Multi Accel/Decel - Mid							4	0	
		[Multi-function											
122	A416	input terminal		<u> </u>	10 Multi Accel/Decel - High							5	0
		P6 define]		11	DC brake	e durin	g stop						
123	A417	[Multi-function input terminal		12	2nd moto	or sele	ct					6	0
125	A417	P7 define]		13	-Reserve	ed-						0	
				14	-Reserve	ed-							
				15	Up-dowr	1		ncy increa				-	
			0~27	16				ncy decre	ase com	mand (D	OWN)	-	
				17 18	3-wire op External			Ξ +Λ)				-	
				19	External							-	0
		[Multi-function		20	Self-diag							- 7	
124	A418	input terminal		21	-			ion to V/F	operatio	n			
		P8 define]	P8 definej		22 2nd Source								
				23 Analog Hold									
			-	24 Accel/Decel Disable 25 Up/Down Save Freq. Initialization									
				25			Freq. Ini	tialization				-	
				26 27	JOG-FX 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
126	A41A	[Output terminal			BIT		-!			IT0		0	0
	,,	status display]		3AC MO									
		[Filtering time constant for		If the value is set higher, the responsiveness of the Input terminal									
127	I27 A41B Constant of 1 Multi-function		1 ~ 15	is getting slower.						4	0		
		Input terminal]											
130	A41E	[Multi-Step										30.00	0
150	AHIL	frequency 4]										50.00	0
131	A41F	[Multi-Step	0 400	400 It cannot be set greater than F21 - [Max frequency].						25.00	0		
		frequency 5] [Multi-Step [Hz]	0~400										
132	A420	frequency 6]							20.00	0			
		[Multi-Step											
133	A421	frequency 7]										15.00	0
134	A422	[Multi-Accel										3.0	0
		time 1]										0.0	
135	A423	[Multi-Decel 0~	6000									3.0	
		time 1] [Multi-Accel	[sec]										
136	A424	time 2]										4.0	



: Input/output group

LED display	Address for communication	Parameter name	Min/Max range		Desc	ription		Factory defaults	Adj. during ru
137	A425	[Multi-Decel time 2]						4.0	
		[Multi-Accel							
138	A426	time 3]						5.0	
		[Multi-Decel							
139	A427	time 3]						5.0	
140	A 429	[Multi-Accel						6.0	
140	A428	time 4]						6.0	
I41	A429	[Multi-Decel						6.0	
171	//125	time 4]						0.0	
142	A42A	[Multi-Accel 0~ time 5]	6000 [sec]					7.0	
140	A 42P	[Multi-Decel						7.0	
143	A42B	time 5]						7.0	
144	A42C	[Multi-Accel time 6]						8.0	
145	A42D	[Multi-Decel time 6]						8.0	
146	A42E	[Multi-Accel						9.0	
140	A42E	time 7]						9.0	
147	A42F	[Multi-Decel time 7]						9.0	
	I50 A432 [Analog output item select]			O to the	Output to 10	[V]			
			0~3		Output item	200V 400V		_	
150				0	Output freq.	Max frequency		0	0
150				1	Output current	150 %			
				2	Output voltage	AC 282V	AC 564V		
				3	Inverter DC link voltage	DC 400V	DC 800V		
151	A433	[Analog output level adjustment]	10~200 [%]	Base	d on 10V.			100	0
152	A434	[Frequency detection level]						30.00	0
153	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
		[Multi-function		0	FDT-1			12	
154	A436	output terminal		1					-
		select]		2	FDT-3				
				3	FDT-4				
			0~19	4	FDT-5			0	
		[Multi-function	0~19	5	Overload (OLt)				
155	A437	relay select]		6	Inverter Overload (IOLt)		17		
				7	Motor stall (STALL)			_	
				8	Over voltage trip (Ovt)			_	
				9	Low voltage trip (Lvt)				

Input/output group

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	14 During constant run				17	0										
155	A+37	relay select]	0 - 19	15	During speed sear	-			1/											
				16	Wait time for run si				-											
				17	Multi-function relay				-											
				18 19	Warning for cooling Brake signal select				-											
				19	When setting the	When th	e trip	When the												
					H26 - [Number of		-	low voltage trip												
					auto restart try]	voltage		occurs												
						occurs				0										
					Bit 2	Bit 1		Bit 0												
			0~7	0	-	-		-												
156	A438	[Fault relay output]		1	-	-		\checkmark	2											
				2	-	\checkmark		-	-											
				3	-	\checkmark		\checkmark												
				4 5	\checkmark	- - -		-	-											
				6	\checkmark			-												
				7	\checkmark			\checkmark	-											
					Multi-function relay		Multi-fun	ction output terminal												
		[Output terminal	0~3		Bit 1		Bit 0													
157	A439	select when		0	-		-		0	0										
157	1 100	communication	0 0	1	- ~		\checkmark													
		error occurs]													2	-			-	
				3																
159	A43B	[Communication	0~1	Set communication protocol.					0	×										
155	A43B	protocol select]	0~1	0 Modbus RTU 1 LS BUS																
160	A43C	[Inverter number]	1 ~ 250		r RS485 communica	ation			1	0										
					t the Baud rate of the															
				0 1200 [bps]					-											
161	A43D	[Baud rate]	0~4	1 2400 [bps]					3	0										
101	A45D		0~4	2 4800 [bps]					5											
				3 9600 [bps]					_											
				4	19200 [bps]			() (
				It is used when freq command is given via V1 /I terminal or																
		[Drive mode select after loss	0~2	RS485. Continuous operation at the frequency before its					-											
162	A43E	of frequency		0	command is lost.		requericy		0	0										
		command]		1	Free Run stop (Ou	tput cut-of	f)		-											
		communicity		2	Decel to stop		.,		-											



:: Input/output group

LED display	Address for communication	Parameter name	Min/Max range		Description	Factory defaults	Adj. during rui
163	A43F	[Wait time after loss of frequency command]	0.1 ~ 120 [sec]	freque input	This is the time inverter determines whether there is the input frequency command or not. If there is no frequency command input during this time, inverter starts operation via the mode selected at I62.		о
164	A440	[Communication time setting]	2 ~ 100 [ms]	Fram	e communication time	5	0
165	A441	[Parity/stop bit setting]	0~3	When the protocol is set, the communication format can be set. 0 Parity: None, Stop Bit: 1 1 Parity: None, Stop Bit: 2 2 Parity: Even, Stop Bit: 1 3 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 u	The user can register up to 8 discontinuous addresses and read		0
170	A446	[Read address register 5]	0~42239	them all with one Read command.		9	
171	A447	[Read address register 6]					
172	A448	[Read address register 7]					
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]	0~42239	The u	ser 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]					
181	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).

Input/output group

LED display	Address for communication	Parameter name	Min/Max range	Description	Factory defaults	Adj. during run
183	A453	[Brake open	0~10	Sets Brake open dely time.	4.00	~
105	A400	delay time]	[s]		1.00	×
184	A454	[Brake open FX	0~400	Sets FX frequency to open the brake	1.00	~
104	7434	frequency]	[Hz]	Sets I X frequency to open the blake	1.00	×
185	A455	[Brake open RX	0~400	Sets RX frequency to open the brake	1.00	
105	A400	frequency]	[Hz]		1.00	×
186	A456	[Brake close	0~19	Sate delay time to close the brake	1.00	
100	A430	delay time]	[s]	Sets delay time to close the brake	1.00	×
187	A457	[Brake close	0~400	Sets frequency to close the brake	2.00	
10/	A407	frequency	[Hz]	Sets frequency to close the blake	2.00	×

Protective Functions

iG5A

Keypad display	Protective functions	Descriptions
	Overcurrent	The inverter turns off its output when the output current of the inverter flows more than 200% of the inverter rated current.
	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).
	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.
	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.
(Jub	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.
EFH	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.
Fiti	Self-diagnostic malfunction	Displayed when IGBT damage, output phase short, output phase ground fault or output phase open occurs.
[133]	Parameter save error	Displayed when user-setting parameters fails to be entered into memory.
	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
FRn	Cooling fan fault	Displayed when a fault condition occurs in the inverter cooling fan.
<u> </u>	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.
<u>[</u>]	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.
[}	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 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.	\rightarrow Check the wiring of the output terminal. \rightarrow 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.	\rightarrow 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.			
Lut 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 External fault A contact input	The terminal action "40 (Esternal fault A)" as	\rightarrow Eliminate the cause of fault at circuit connected to			
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.	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.	\rightarrow Check the wiring of V1 and I and frequency reference level.			
Remote keypad communication error	Communication error between inverter keypad and remote keypad.	\rightarrow Check for connection of communication line and connector.			
EEP H''E Err [0],	 EEP: Parameter save error HWT: Hardware fault Err: Communication Error COM: Keypad error 	\rightarrow Contact your LSIS sales distributor.			

Green Innovators of Innovation



- For your safety, please read user's manual thoroughly before operating.
- · Contact the nearest authorized service facility for examination, repair, or adjustment.
- Please contact a 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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2012. 01

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