

کاتالوگ محصولات اینور تر LS سری IG5A



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Derwent Top 100 Global Innovator 2020

iG5A

0.4~1.5kW(0.5~2HP) 1-phase 200~230Volts 0.4~22kW(0.5~30HP) 3-Phase 200~230Volts 0.4~22kW(0.5~30HP) 3-Phase 380~480Volts





Drive STARVERT iG5A

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

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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

Compact AC Drive

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.



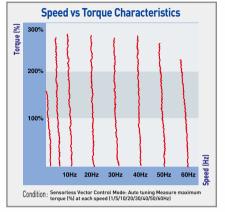
The built-in PID function enables to control flow-rate, oil-pressure, temperature, etc without any extra controller.

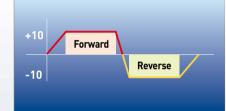
Built-in Dynamic Braking Circuit

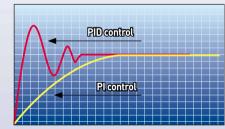
The built-in dynamic braking circuit minimizes deceleration time via braking resistors.

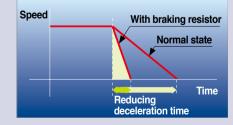
Built-in 485 Communication

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



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 Drives
- 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 Drives
- RS-485, Modbus communication

Compact AC 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 Drives.



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 ontroller.

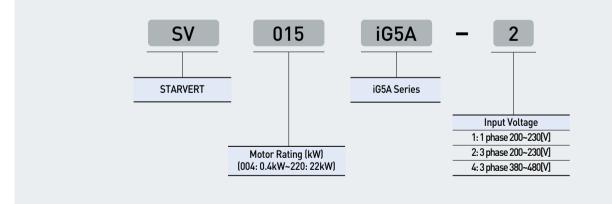
Model & Type

Compact AC IG5A

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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



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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%)							
Rating	Rated Frequency	50 ~ 60 [Hz] (±5%)							
Cooling Met	nod	Forced air cooling							
Weight (kg)		0.76	0.76 1.12 1.84						

3 Phase 200V

S	/ 🗆 🗆 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 [Hz] ⁴⁾											
	Max Voltage	3 phase 200~230V ⁵⁾											
Input	Rated Voltage	3 phase 200~230 (+10%, -15%)											
Rating	Rated Frequency					•	50~60 [H	Hz] (±5%)	•				
Cooling Method		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	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	6.9	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 [H	Iz] (±5%)					
Cooling Method		N/C 61					Ford	ced air coo	oling				
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

Compact AC Drive

Standard Specifications



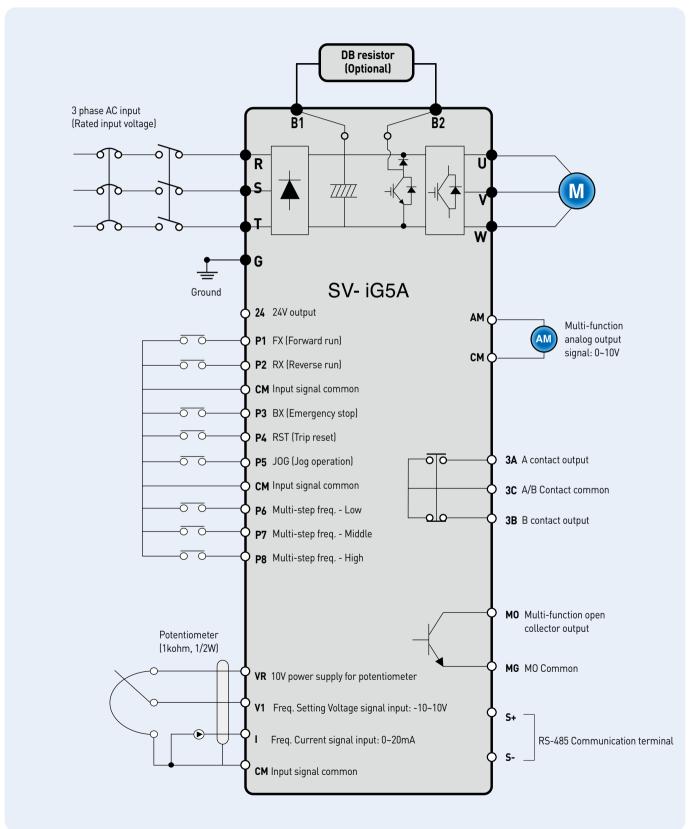
	Contro	l Method		V/F, Sensorless vect	tor control				
	Freque	ency Setti	ng Resolution	Digital command: 0. Analog command: 0.	01Hz .06Hz (Max. freq.: 60Hz)				
	Freque	ency Accu	iracy	Digital command: 0.01% of Max. output frequency Analog command: 0.1% of Max. output frequency					
<u> </u>	V/F Pat	ttern		Linear, Squared, User V/F					
Control	Overloa	ad Capac	ity	150% per 1 min.					
	Torque	Torque Boost		Manual/Auto torque	boost				
	Dynam Brakin		Max. Braking Torque	20% ¹⁾					
			Max. Duty	150% when using op	otional DB resistor ²⁾				
	Operat	ion Mode	•	Kevpad/Terminal/C	ommunication option/Remote keypad selectable				
	Frequency Setting		Analog: 0~10V, -10~ Digital: Keypad						
	Operat	ion Featu	ires	PID, Up-down, 3-wir	re				
				NPN/PNP selectable					
Operation	Input	Multi-Function put Terminal P1~P8		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-Drive (V/F) operation bypass, Option-drive (V/F) operation bypass, Analog Hold, Accel/Decel stop					
		Open C	ollector Terminal	Fault output and drive status output	Less than DC 26V, 100mA				
	Output	Multi-F	Function Relay	unve status output	(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		Over voltage, Under voltage, Over current, Ground fault current detection, Drive overheat, Motor overheat, Output phase open, Overload protection, Communication error, Loss of speed command, Hardware fault, Fan trip						
Protective Function	Alar	m		Stall prevention, Ove					
	Morr	nentary P	ower Loss	Below 15 msec: Continuous operation (Should be within rated input voltage, rated output power.) Above 15 msec: Auto restart enable					
	Prot	ection De	egree	IP 20, NEMA1 (Ambi	ent Temperature 40°C) ³				
		ient Tem	-	-10°C~50°C	· · · · · · · · · · · · · · · · · · ·				
		age Tem		-20°C~65°C					
	Humidity			Below 90% RH (No c	condensation)				
Environment		ude/Vibra	ation		n 1000 to 4000m, the rated input voltage and rated output current derated by 1% for every 100m.), 5.9m/sec² (0.6G)				
	Atm	ospheric	Pressure	70~106 kPa					
	Location			Protected from corrosive gas, Combustible gas, Oil mist or dust					
1) Means average	e braking t	orque dur	ing Decel to stop of	a motor.					

Refer to Chapter 16 of user's manual for DB resistor specification.
 UL Type1 with top cover and conduit box installed.

Wiring



0.4~7.5kW

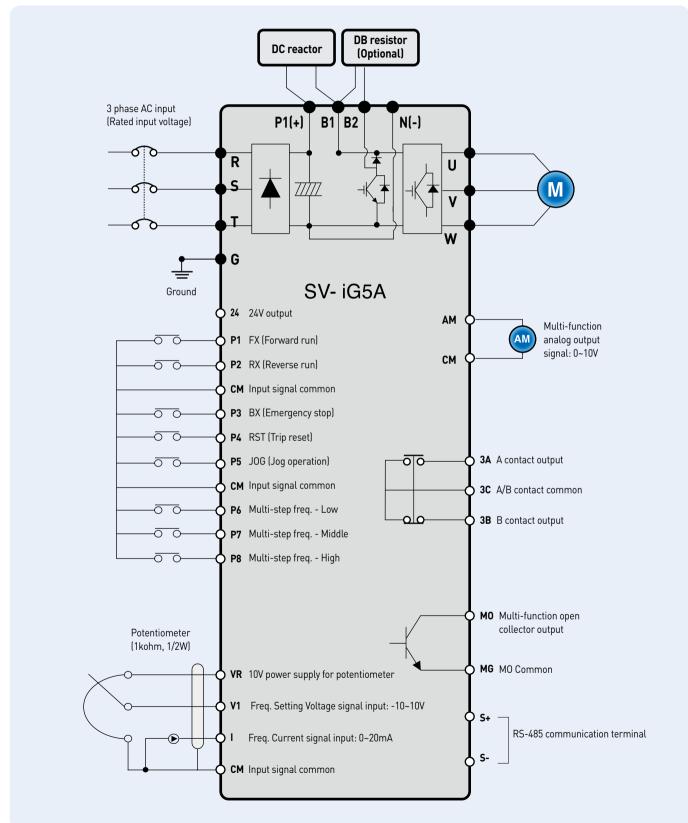


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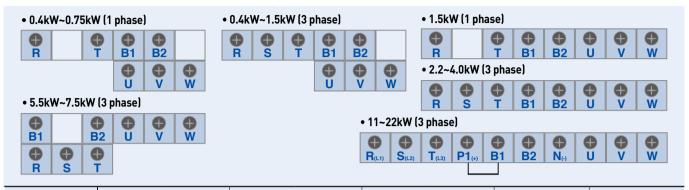
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11.0~22.0kW





Specifications for Power Terminal Block Wiring



	R, S, T wire		U, V, V	U, V, W wire		d Wire	Terminal	Screw Torque			
	mm²	AWG	mm²	AWG	mm²	AWG	Screw Size	(kgf.cm) / lb-in			
SV0004iG5A-1							M3.5	10/8.7			
SV0008iG5A-1							M0.0	10/0.7			
SV0015iG5A-1							M4	15/13			
SV0004iG5A-2	2.5	14	2.5	14							
SV0008iG5A-2					4	12	M3.5	10/8.7			
SV0015iG5A-2											
SV0022iG5A-2											
SV0037iG5A-2	4	12	4	12			M4	15/13			
SV0040iG5A-2	4	12	4	12							
SV0055iG5A-2	6	10	6	10	6	10	М5	32/28			
SV0075iG5A-2	10	8	10	8	0	10	IND .	52720			
SV0110iG5A-2	16	6	16	6	16	6	M6	30.7/26.6			
SV0150iG5A-2	25	4	25	4	10		110	30.7/20.0			
SV0185iG5A-2	35	35	25	- 35	2	35	2	25	4	M8	30.5/26.5
SV0220iG5A-2		<u> </u>		2	20	4		00.0/20.0			
SV0004iG5A-4							M3.5	10/8.7			
SV0008iG5A-4								10,0.7			
SV0015iG5A-4	2.5	14			2.5	14					
SV0022iG5A-4	2.0		2.5	14	2.0		M4	15/13			
SV0037iG5A-4							114	10,10			
SV0040iG5A-4											
SV0055iG5A-4	- 4	12			4	12		32/28			
SV0075iG5A-4			4	12			M5				
SV0110iG5A-4	6	10	6	10	10	8		30.7/26.6			
SV0150iG5A-4	16	6	10	8		Ľ,		50.7/20.0			
SV0185iG5A-4			-		16	6	M6	30.5/26.5			
SV0220iG5A-4	25	4	16	6	14			00.0,20.0			

* Strip the sheaths of the wire insulation 7mm when a ring terminal is not used for power connection.

* SV185iG5A-2 and SV220iG5A-2 must use Ring or Fork Terminal certainly approved by UL.



Control Terminal Specifications

Compact AC Drive G5A

		H MO	⊕ MG	4 24	9 P1	P 2	⊕ CM	P 3	P 4	G S-	⊕ S+
A	() 3B	() 3C	• P5	CM	P 6	P 7	P 8	O VR	● V1	•	₽ AM

- · ·		Wire Siz	e (mm²)	c c:	- (),);;	с. :r: .:
Terminal	Description	Single Wire	Stranded	Screw Size	Torque (Nm) 1)	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: -10V~+10V input
I	Input terminal for current operation	1.0	1.5	M2.6	0.4	0~20mA input Internal resistor: 250ohm
АМ	Multi-function analog output terminal	1.0	1.5	M2.6	0.4	Max. output voltage: 11V Max. output current: 10mA
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	

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

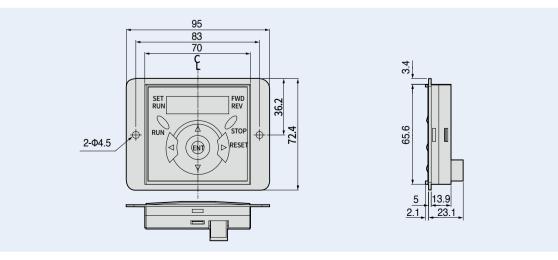




	Display	Term	Description
	RUN	Run key	Run command
	STOP/RESET	STOP/RESET key	STOP: Stop command during operation, RESET:Reset command when a fault occurs.
		Up key	Used to scroll through codes or increase parameter value
KEY	▼	Down key	Used to scroll through codes or decrease parameter value
KE I	•	Right 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
	REV Reverse run		Lit during reverse run
LED 1)	RUN	Run key	Lit during operation
	SET	Setting	Lit during parameter setting

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

Dimensions

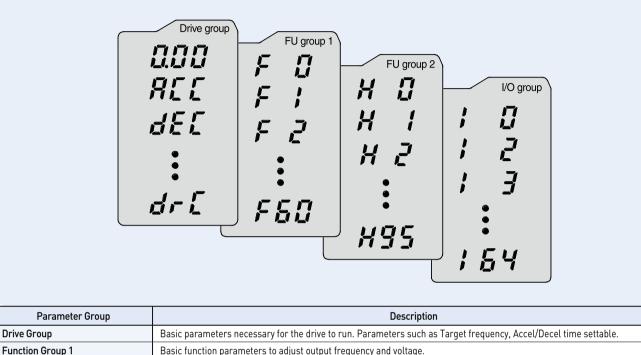


Compact AC iG5A



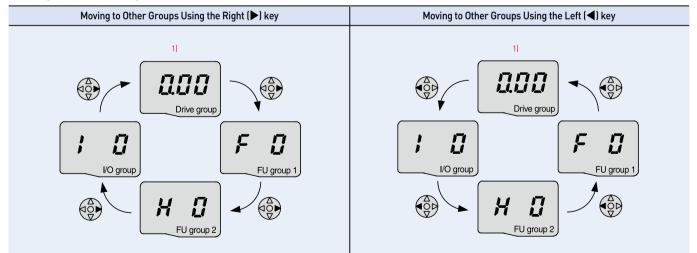
Parameter Groups

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



I/O (Input/Output) Group	Parameters necessary to make up a sequence using multi-function input/output terminal.
Function Group 2	Advanced function parameters to set parameters for such as PID Operation and second motor operation.
Function of oup 1	basic function parameters to aujust output mequency and voltage.

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.

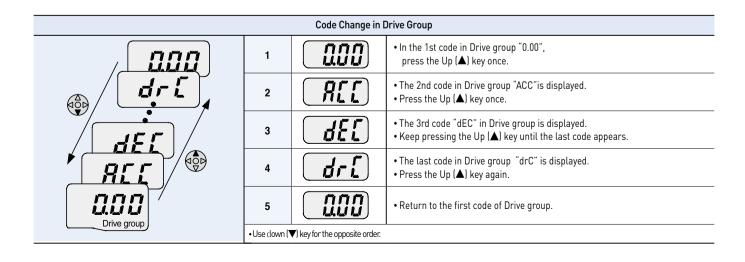


		When Changing ACC Time from 5.0 sec to 16.0 sec							
	BEE 5.0 IS.0 Drive group								
1		• In the first code "0.00", press the Up (▲) key once to go to the second code.							
2		 ACC [Accel time] is displayed. Press the Ent (•) key once. 							
3		 Preset value is 5.0, and the cursor is in the digit 0. Press the Left (<) key once to move the cursor to the left. 							
4	Si	• The digit 5 in 5.0 is active. Then press the Up (\blacktriangle) key once.							
5	5. 1	 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.¹¹ 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.							

1) Pressing the Left (◄)/Right (▶)/Up (▲)/Down (▼) key while a cursor is blinking will cancel the parameter value change.

Pressing the Ent (ullet) key in this status will enter the value into memory.

% In step 7, pressing the Left (\blacktriangleleft) or Right (\blacktriangleright) key while 16.0 is blinking will disable the setting.



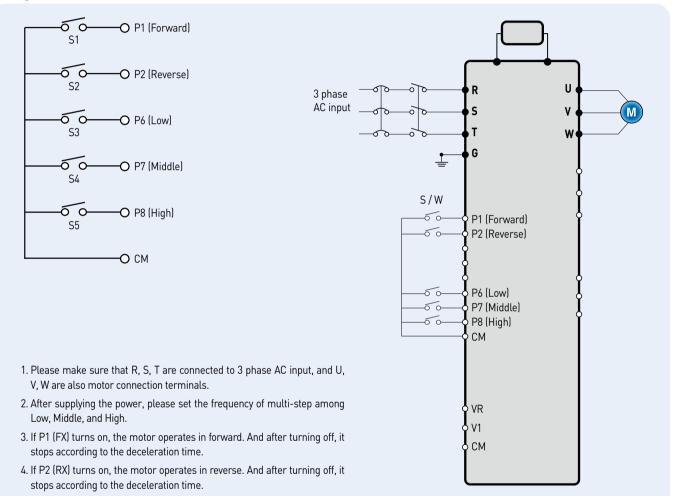


Multi-step Operation + Run/Stop via FX/RX + Max. Frequency Change

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)	117	The default is FX. This value may change.	FX	FX
6	Reverse run (P2: RX)	118	The default is RX. This value may change.	RX	RX

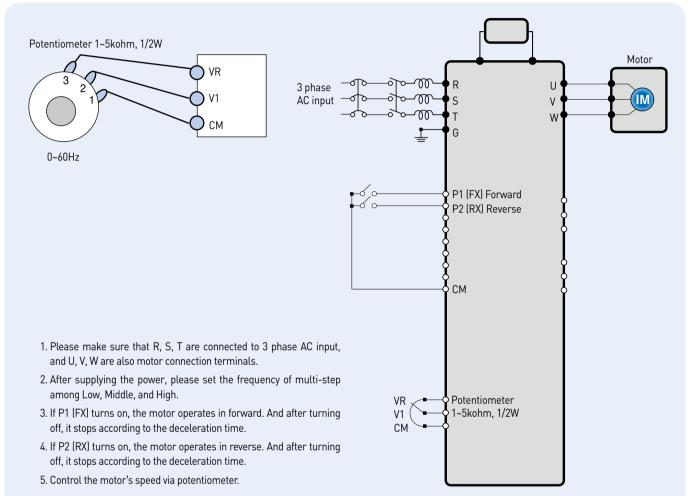


Potentiometer (Volume) + Run/Stop via FX/RX + Accel/Decel Time Change

Operation Condition

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

Wiring



Parameter Setting

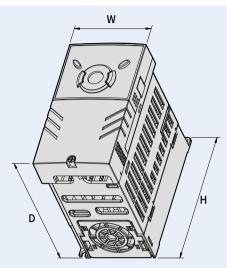
Step	Command	Code	Description	Default	After Change
1	Operation command (DRV group)	Drv	Turn on/off motor via terminal.	1 (FX/RX-1)	1 (FX/RX-1)
2	Analog input (DRV group)	Frq	Change keypad command to analog voltage command.	0 (Keypad-1)	3 (V1: 0~10V)
3	Accel/Decel time (DRV group)	ACC dEC	Set Accel time 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)	I 18	The default is RX. This value may change.	Rx	Rx

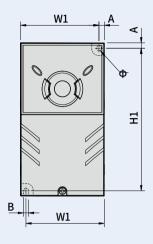


SV004iG5A-1 SV004iG5A-2 / SV008iG5A-2, SV004iG5A-4 / SV008iG5A-4

Dimensions

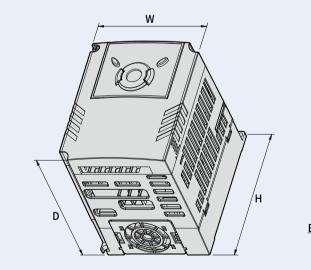
Compact AC IG5A

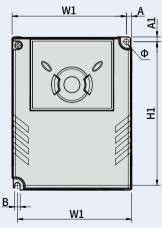




Drive Model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	Φ	A (mm)	B (mm)	(kg)	
SV004iG5A-1	0.4	70	65.5	128	119	130	4.0	4.5	4.0	0.76	
SV004iG5A-2	0.4	70	65.5	128	119	130	4.0	4.5	4.0	0.76	
SV008iG5A-2	0.75	70	65.5	128	119	130	4.0	4.5	4.0	0.77	
SV004iG5A-4	0.4	70	65.5	128	119	130	4.0	4.5	4.0	0.76	
SV008iG5A-4	0.75	70	65.5	128	119	130	4.0	4.5	4.0	0.77	

SV008iG5A-1 / SV015iG5A-2 / SV015iG5A-4





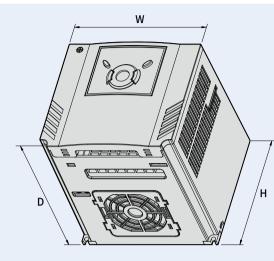
mm	(inches)	
	(

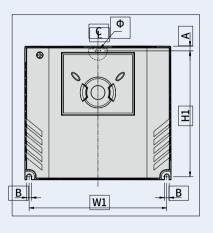
mm (inchoc)

Drive Model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	Φ	A (mm)	B (mm)	(kg)
SV015iG5A-1	0.75	100	95.5	128	120	130	4.5	4.5	4.5	1.12
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



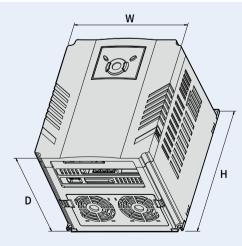
SV015iG5A-1 / SV022iG5A-2 / SV037iG5A-2 / SV040iG5A-2, SV022iG5A-4 / SV037iG5A-4 / SV040iG5A-4

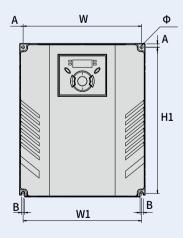




										mm (inches)
Drive Model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	Φ	A (mm)	B (mm)	(kg)
SV015iG5A-1	1.5	140	132	128	120.5	155	4.5	4.5	4.5	1.84
SV022iG5A-2	2.2	140	132	128	120.5	155	4.5	4.5	4.5	1.84
SV037iG5A-2	3.7	140	132	128	120.5	155	4.5	4.5	4.5	1.89
SV040iG5A-2	4.0	140	132	128	120.5	155	4.5	4.5	4.5	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





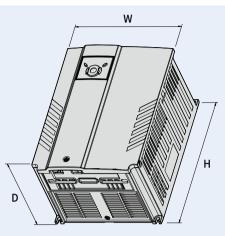
mm (inches)	
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Drive Model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	Φ	A (mm)	B (mm)	(kg)
SV055iG5A-2	5.5	180	170	220	210	170	4.5	5	4.5	3.66
SV075iG5A-2	7.5	180	170	220	210	170	4.5	5	4.5	3.66
SV055iG5A-4	5.5	180	170	220	210	170	4.5	5	4.5	3.66
SV075iG5A-4	7.5	180	170	220	210	170	4.5	5	4.5	3.66

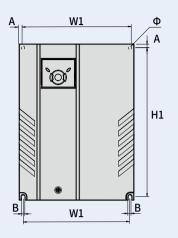


SV110iG5A-2 / SV150iG5A-2 / SV110iG5A-4 / SV150iG5A-4

Compact AC **IG5A** Drive



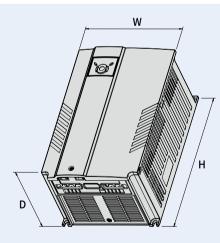
Dimensions

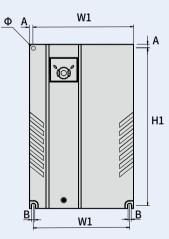


mm (inches)

Drive Model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	Φ	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

SV0185iG5A-2 / SV0220iG5A-2 / SV0185iG5A-4 / SV0220iG5A-4





mm (inches)

111										
Drive Model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	Φ	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

	.	100% b	raking	150% b	raking
Voltage	Drive	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

Breakers

- Note) 1. The capacity of the MCCB should be 1.5 to 2 times the
 - Inter output current of the drive
 Use an MCCB keep the drive from faulting out instead of using overheat protection (150% for one minute at the rated output current.)
 - rated output current.) 3. In case magnetic contactor is used on single-phase product, wire R and T phases.

			Circuit Brea	ker (MCCB)		Leakage Bre	eaker (ELCB)	Magnetic Co	ntactor (MC)
Voltage	Capacity [kW]	Model	Rated Current [A]	Model	Rated Current [A]	Model	Rated Current [A]	Model	Rated Current [A]
1 Dharas	0.4	10000	5		15		5	MC-6a	9
1-Phase 200V	0.75	ABS33c	10	UTE100	15	EBS33c	10	MC9a, MC9b	11
2009	1.5		15		15		15	MC18a, MC18b	18
	0.4		5		15		5	MC6a	9
	0.75		10		15		10	MC9a, MC9b	11
	1.5	10000	15		15	FRCOO	15	MC18a, MC18b	18
	2.2	ABS33c	20		20	EBS33c	20	MC22b	22
	3.7		30	UTE100	30		30	14000	32
3-Phase	4	1	30		30		30	MC32a	32
200V	5.5	ABS53c	50		50	EBS53c	50	MC50a	55
	7.5	ABS63c	60		60	EBS63c	60	MC65a	65
	11	4.0.0100	100		90	EDC100	100	MC85a	85
	15	ABS103c	125	1170450	125	EBS103c	125	MC130a	130
	18.5		150	UTS150	150	FRCOOD	150	MC150a	150
	22		175	UTS250	175	EBS203c	175	MC185a	185
	0.4	ABS203c	3		15		5	100	7
	0.75		5		15		5	MC6a	7
	1.5		10		15		10	MC9a, MC9b	9
	2.2	1	10		15	55000	10	MC12a, MC12b	12
	3.7		15		15	EBS33c	15	MC18a, MC18b	18
3-Phase	4	ABS33c	20		20		20	MC18a, MC18b	18
400V	5.5		30	UTE100	30		30	MC22b	22
	7.5		30		30		30	MC32a	32
	11	ABS53c	50		50	EBS53c	50	MC50a	50
	15	ABS63c 60			60	EBS63c	60	MC65a	65
	18.5	400100	75		80	EDC102	75	MC75a	75
	22	ABS103c	100		90	EBS103c	100	MC85a	85

Compact AC Drive

Fuses & AC Reactors

	AC Exte	ernal Fuse		
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



Drive Group

LED Display	Address for Communication	Parameter Name	Min/Max Range		De	Factory Defaults	Adj. during Run	
0.00	A100	[Frequency command]	0 ~ 400 [Hz]	to ou Duri Duri Duri Mult	parameter sets the free itput. ng stop: frequency com ng eun: output frequenc ng multi-step operation i-step frequency 0. nnot be set greater thar	0.00	0	
ACC	A101	[Accel time]	0 ~ 6000	Duri	ng multi-accel/decel op	eration, this parameter serves as	5.0	0
dEC	A102	[Dacel time]	[Sec]		l/decel time 0.		10.0	0
drv	A103	[Drive mode]	0 ~ 3	0 1 2 3 4	Run/stop via run/Sto Terminal operation RS485 communicatio Set to Field Bus com	FX: Motor forward run RX: Motor reverse run FX: Run/Stop enable RX: Reverse rotation select	1	x
Frq	A104	[Frequency setting method]	0~7	0 1 2 3 4 5 6 7 8 9	- Digital Analog RS485 communicatio Digital volume Set to field bus comm		0	X
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 o	during multi-step operation.	20.00	0
St3	A107	[Multi-step frequency 3]		Sets	multi-step frequency 3 o	during multi-step operation.	30.00	0
Cur	A108	[Output current]		Displ	ays the output current t	o the motor.	-	-
rPM	A109	[Motor RPM]		Displ	ays the number of Moto	r RPM.	_	-
dCL	A10A	[Drive DC link voltage]		Displ	ays DC link voltage insid	de the drive.	-	-
v0L	A10B	[User display select]			parameter displays the select]. Output voltage Output power Torque	item selected at H73- [Monitoring	vOL	-

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



Compact AC Drive





Drive Group

LED Display	Address for Communication	Parameter Name	Min/Max Range		De	scription	Factory Defaults	Adj. during Run
nOn	A10C	[Fault display]			lays the types of faults, ime of the fault	frequency and operating status at	-	-
	1105	[Direction of	_		the direction of motor r o either 0 or 1.	rotation when drv - [Drive mode] is	_	
drC	A10D	motor rotation select]	F, r	F	Forward		F	0
				r	Reverse			
				0	Run/stop via run/st	op 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	10	X
						RX: Reverse rotation select		
				3	RS-485 communicat	ion		
				4	Set to filed bus comr	nunication ³⁾		
				0	Disital	Keypad setting 1		
				1	Digital	Keypad setting 2		
				2		V1 1: -10 ~ +10 [V]		
		[[]]		3		V1 2: 0 ~ +10 [V]		
E2.41	A10F	[Frequency setting	0~7	4	Analog	Terminal I: 0 ~ 20 [mA]	00	x
Frq2 1)	Alth	method 2]	0~7	5		Terminal V1 setting 1 + Terminal I	00	^
		inctiou 2j		6		Terminal V1 setting 2+ Terminal I		
				7	RS485 communicatio	n		
				8	Digital Volume			
				9	Set to filed bus comr	nunication ³⁾		
rEF ²⁾	A110	PID control standard value setting	0~400[Hz] or 0~100 [%]	lf H5 In [H	H58 is 0, it is expressed as a [Hz] unit. H58 is 1, it is expressed as a [%] unit. [Hz] unit, you can't set max. frequency more than (F21). [%] unit, 100% means max. frequency.		0.00	0
Fbk ²⁾	A111	PID control feedback amount		If H5	licates a feedback amou 8 is 0, it is expressed as 8 is 1, it is expressed as	a [Hz] unit.	-	-

1) Only displayed when one of the Multi-function input terminals 1-8 [I17~I24] is set to "22".

2) It is indicated when H49(PID control selection) is 1.

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
FO	A200	[Jump code]	0 ~ 71	0 ~ 71 Sets the parameter code number to jump		1	0
		[Forward/		0	Fwd and rev run enable		
F1	A201	Reverse run	0 ~ 2	1	Forward run disable	0	Х
		disable]		2	Reverse run disable		
F2	A202	[Accel pattern]	0 1	0	Linear	0	v
F3	A203	[Decel pattern]	0~1	1	S-curve		^



Function Group 1

LED Display	Address for Communication	Parameter Name	Min/Max Range		Description	Factory Defaults	Adj. during Run
				0	Decelerate to stop		
F4	A204	[Stop mode	0 ~ 3	1	DC brake to stop	0	x
		select]	0 0	2	Free run to stop	-	
				3	Power braking stop		
F81)	A208	[DC Brake start frequency]	0.1 ~ 60 [Hz]		parameter sets DC brake start frequency. 1not be set below F23 - [Start frequency].	5.00	Х
F9	A209	[DC Brake wait time]	0 ~ 60 [sec]		When DC brake frequency is reached, the drive holds the output for the setting time before starting DC brake.		x
F10	A20A	[DC Brake voltage]	0 ~ 200 [%]		This parameter sets the amount of DC voltage applied to a motor. It is set in percent of H33 - [Motor rated current].		Х
F11	A20B	[DC Brake time]	0 ~ 60 [sec]		This parameter sets the time taken to apply DC current to a motor while motor is at a stop.		Х
F12	A20C	[DC Brake start voltage]	0 ~ 200 [%]	start	This parameter sets the amount of DC voltage before a motor starts to run. It is set in percent of H33 - [Motor rated current].		х
F13	A20D	[DC Brake start time]	0 ~ 60 [sec]		oltage is applied to the motor for DC Brake start time e motor accelerates.	0	X
F14	A20E	[Time 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.		х
F20	A214	[Jog frequency]	0 ~ 400 [Hz]		This parameter sets the frequency for Jog operation. It cannot be set above F21 - [Max frequency].		0
					parameter sets the highest frequency the drive can output. requency reference for Accel/Decel (See H70)		
F21 ²⁾	A215	[Max frequency]	40 ~ 400 [Hz]		Caution	60.00	x
					requency cannot be set above Max frequency except Base lency		
F22	A216	[Base frequency]	30 ~ 400 [Hz]		Irive outputs its rated voltage to the motor at this lency (see motor nameplate).	60.00	х
F23	A217	[Start frequency]	0.1 ~ 10 [Hz]		Irive starts to output its voltage at this frequency. he frequency low limit.	0.50	х
F24	A218	[Frequency high low limit select]	0 ~ 1	This	parameter sets high and low limit of run frequency.	0	х
F25 ³⁾	A219	[Frequency high limit]	0 ~ 400 [Hz]		This parameter sets high limit of the run frequency. It cannot be set above F21 - [Max frequency].		x
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].		0.05	x
F27	A21B	[Torque Boost select]	0 ~ 1	0 Manual torque boost 1 Auto torque boost		0	х
F28	A21C	[Torque boost in forward direction]	0 ~ 15	during	This parameter sets the amount of torque boost applied to a motor during forward run. It is set in percent of Max output voltage.		х
F29	A21D	[Torque boost in reverse direction]	[%]		arameter sets the amount of torque boost applied to a motor reverse run. It is set as a percent of Max output voltage.	2	Х

Only displayed when F 4 is set to 1 (DC brake to stop). 2) 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

Compact AC IG5A

Function List



Function Group 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	X
				2	{User V/F}		
F31 ¹⁾	A21F	[User V/F frequency 1]	0 ~ 400 [Hz]		ised only when V/F pattern is set to 2(User V/F) inot be set above F21 - [Max frequency].	15,00	X
F32	A220	[User V/F] voltage 1	0 ~ 100 [%]			25	x
F33	A221	[User V/F frequency 2]	0 ~ 400 [Hz]		The value of voltage is set in percent of H70 - [Motor rated voltage]. The values of the lower-numbered parameters cannot be set above those of higher-numbered.		x
F34	A222	[User V/F voltage 2]	0 ~ 100 [%]				x
F35	A223	[User V/F frequency 3]	0 ~ 400 [Hz]	volta The v			x
F36	A224	[User V/F voltage 3]	0 ~ 100 [%]			75	x
F37	A225	[User V/F frequency 4]	0 ~ 400 [Hz]			60.00	x
F38	A226	[User V/F voltage 4]	0 ~ 100 [%]				x
F39	A227	[Output voltage adjustment]	40 ~ 110 [%]		parameter adjusts the amount of output voltage. Het value is the percentage of input voltage.	100	x
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		parameter is activated when the motor is overheated -inverse).	0	0
F51 ²⁾	A233	[Electronic thermal level for 1 minute]	50 ~ 200 [%]	moto The s It car	parameter sets max current capable of flowing to the r continuously for 1 minute. wet value is the percentage of H33 - [Motor rated current]. Inot be set below F52 - [Electronic thermal level for nuous].	150	0
F52	A234	[Electronic thermal level for continuous]	50 ~ 150 [%]	runnin It canr	This parameter sets the amount of current to keep the motor running continuously. It cannot be set higher than F51 - [Electronic thermal level for 1 minute].		0
F53	A235	[Motor cooling	0 ~ 1	0 Standard motor having cooling fan directly connected to the shaft		. 0	0
1 33	A233	method]	U~ I	1 A motor using a separate motor to power a cooling fan.			
F54	A236	[Overload warning level]	30 ~ 150 [%]	This parameter sets the amount of current to issue an alarm signal at a relay or multi-function output terminal (see I54, I55). The set value is the percentage of H33- [Motor rated current].		150	0
F55	A237	[Overload warning time]	0 ~ 30 [Sec]	This parameter issues an alarm signal when the current greater than F54- [Overload warning level] flows to the motor for F55- [Overload warning time].		10	0

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

2) 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 Ru		
F56	A238	[Overload trip select]	0 ~ 1		parameter turns o loaded.	ff the drive output whe	n motor is	1	0
F57	A239	[Overload trip level]	30 ~ 200 [%]		parameter sets th value is the percen	180	0		
F58	A23A	[Overload trip time]	0 ~ 60 [Sec]	[Ove	This parameter turns off the drive output when the F57- [Overload trip level] of current flows to the motor for F58- [Overload trip time].				0
				dece		ccelerating during acc nstant speed run and s			
					During decel	During constant run	During accel		
					Bit 2	Bit 1	Bit 0		
				0	-	-	-		
F59	A23B	[Stall prevention	0~7	1	-	-	\checkmark	0	x
		select]		2	-	\checkmark	-		
				3	-	\checkmark	\checkmark		
				4	\checkmark	-	-		
				5	\checkmark	-	\checkmark		
				6	\checkmark	\checkmark	-		
				7	\checkmark	\checkmark	\checkmark		
F60	A23C	[Stall prevention level]	30 ~ 200 [%]	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].				150	x
F611)	A23D	[When Stall prevention during deceleration, voltage limit select	0 ~ 1		all prevention run ut voltage, select 1	during deceleration, if	you want to limit		
F63	A23F	[Save up/down frequency select]	0 ~ 1	durir	ng up/down operat	s whether to save the s ion. • up/down frequency is		0	х
F64 ²⁾	A240	[Save up/down frequency]				ency' is selected at F63 fore the drive stops or		0.00	Х
				We c	an select up-down	n mode among three th	ing		
F65	A241	[Up-down mode select]	0 ~ 2	0	Increases goa frequency/Min	l frequency as a stand . frequency	lard of Max.	0	x
		Selectj		1		ny as step frequency acco mbine 1 and 2	ording to edge input		
F66	A242	[Up-down step frequency]	0 ~ 400 [Hz]			as a 1 or 2, it means i according to up-down		0.00	X
				0	Drive doesn't ru	un as a draw mode			
E70	12/4	[Draw run mode	0 2	1	V1(0~10V) input	t draw run		0	X
F70	A246	select]	0 ~ 3	2	I(0~20mA) inpu	t draw run		U	
				3	V1(-10~10V) inp	out draw run			
	A247	[Draw rate]	0 ~ 100[%]		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.



Compact AC **IG5A** Drive

Function List



Function Group 2

LED Display	Address for Communication	Parameter Name	Min/Max Range		Description			Factory Defaults	Adj. during Rur
H0	A300	[Jump code]	0 ~ 95	Sets	the code number to jump.			1	0
H1	A301	[Fault history 1]	-					nOn	-
H2	A302	[Fault history 2]	-	Stor	es information on the types	s of faul	ts, the frequency, the	nOn	-
H3	A303	[Fault history 3]	-	curr	current and the Accel/Decel condition at the time of fault. The latest fault is automatically stored in the H 1- [Fault history 1].				-
H4	A304	[Fault history 4]	-	lates					-
H5	A305	[Fault history 5]	-				n0n	-	
H6	A306	[Reset fault history]	0 ~ 1	Clea	Clears the fault history saved in H 1-5.				0
H7	A307	[Dwell frequency]	0.1 ~ 400 [Hz]	dwel [Dwe	n run frequency is issued, l frequency is applied to th ell frequency] can be set wi Jency] and F23- [Start freq	5.00	x		
H8	A308	[Dwell time]	0 ~ 10 [sec]	Sets	Sets the time for dwell operation.				x
H10	A30A	[Skip frequency select]	0 ~ 1		the frequency range to ski nance and vibration on the	0	X		
H11 ¹⁾	A30B	[Skip frequencylow limit 1]							x
H12	A30C	[Skip frequency high limit 1]						15.00	X
H13	A30D	[Skip frequency low limit 2]	0.1 ~ 400		frequency cannot be set wi frequency values of the low			20.00	X
H14	A30E	[Skip frequency high limit 2]	[Hz]		et above those of the high r ange of F21 and F23.	number	ed ones. Settable within	25.00	X
H15	A30F	[Skip frequency low limit 3]						30.00	X
H16	A310	[Skip frequency high limit 3]						35.00	X
H17	A311	[S-Curve accel/ decel start side]	1 ~100 [%]		he speed reference value t ng accel/decel. If it is set hi			40	x
H18	A312	[S-Curve accel/ decel end side]	1 ~ 100 [%]		he speed reference value t l/decel. If it is set higher, li			40	x
H19	A313	[Input/output phase loss protection select]	0 ~ 3	0 Disabled 1 Output phase protection 2 Input phase protection 3 Input/output phase protection 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. 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. Motor accelerates after the fault condition is reset while the FX or RX terminal is ON. Motor accelerates after the fault condition is reset while the FX or RX terminal is ON.				0	0
H20	A314	[Power On Start select]	0 ~ 1					0	0
H21	A315	[Restart after fault reset selection]	0 ~ 1					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	on		Factory Defaults	Adj. during Run
						active to prevent ltage to the run		ault when the	-	
					1. H20- [Power on start]	2. Restart after instant power failure	3. Operation after fault	4. Normal accel		
				0	-	-	-	-	-	
				1	-	-	-	\checkmark	-	
				2	-	-		-	-	
				3	-	-	\checkmark	\checkmark	-	
				4	-	\checkmark	-	-	-	
H22 ¹⁾	A316	[Speed Search Select]	0 ~ 15		1. H20- [Power on start]	2. Restart after instant power failure	3. Operation after fault	4. Normal accel	-	
		Select			Bit 3	Bit 2	Bit 1	Bit 0	-	
				5	-	\checkmark	-	\checkmark	-	
				6	-	\checkmark	\checkmark	-	-	
				7	-	\checkmark	\checkmark	\checkmark	-	
				8	\checkmark	-	-	-	-	
				9	\checkmark	-	-	\checkmark	-	
				10	\checkmark	-	\checkmark	-		
				11	\checkmark	-	\checkmark	\checkmark		
				12	\checkmark	\checkmark	-	-		
				13	\checkmark	\checkmark	-	\checkmark		
				14	\checkmark	\checkmark	\checkmark	-		
				15	\checkmark	\checkmark	\checkmark	\checkmark		
H23	A317	[Current level during Speed search]	80 ~ 200 [%]			ts the amount of percentage of the			100	0
H24	A318	[P gain during Speed search]	0 ~ 9999	lt is t	he Proportion	al gain used for	Speed Search F	PI controller.	100	0
H25	A319	[l gain during speed search]	0 ~ 9999	lt is t	he Integral ga	in used for Spee	d search PI cor	ntroller.	200	0
H26	A31A	[Auto Restart time]	0 ~ 10	occu the r or 2	rs. Auto Rest restart tries. T {Run/Stop via	ets the number art is deactivate his function is control termin unction (OHT, L	ed if the fault c active when [d al}. Deactivate	outnumbers rv] is set to 1 ed during	0	0
H27	A31B	[Auto Restart time]	0 ~ 60 [sec]	This	parameter set	s the time betw	een restart trie	S.	1.0	0
		[Makes to me			0.2		0.2	2kW		
H30	A31E	[Motor type select]	0.2 ~ 22.0		~			~	7.5 ²⁾	X
					22.0		22.	0kW		
H31	A31F	[Number of motor poles]	2 ~ 12	This	setting is disp	layed via rPM in	drive group.		4	Х

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

Compact AC Drive





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]		$s = fr - \left[\frac{rpm X p}{120}\right]$ re, fs = Rated slip frequency fr = Rated frequency rpm = Motor nameplate RPM p = Number of Motor poles	2.33 1)	x
H33	A321	[Motor rated current]	0.5 ~ 150 [A]	Ente	r motor rated current on the nameplate.	26.3	Х
H34	A322	[No load motor current]	0.1 ~ 50 [A]	rateo remo Enter	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].		x
H36	A324	[Motor efficiency]	50 ~ 100 [%]	Ente	Enter the motor efficiency (see motor nameplate).		х
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	x
H39	A327	[Carrier frequency select]	1 ~ 15 [kHz]	emis set v	This parameter affects the audible sound of the motor, noise emission from the drive, drive temp, and leakage current. If the set value is higher, the drive sound is quieter but the noise from the drive and leakage current will become greater.		0
H40	A328	[Control mode select]	0 ~ 3	0 1 3	{Volts/frequency control} {Slip compensation control} {Sensorless vector control}	0	X
H41	A329	[Auto tuning]	0 ~ 1		s parameter is set to 1, it automatically measures meters of the H42 and H44.	0	X
H42	A32A	[Stator resistance (Rs)]	0 ~ 28 [Ω]	This	is the value of the motor stator resistance.	-	Х
H44	A32C	[Leakage inductance (L o)]	0 ~ 300.0 [mH]	This	is leakage inductance of the stator and rotor of the motor.	-	Х
H45 ²⁾	A32D	[Sensorless P gain]	0 007/7	P gain for sensorless control		1000	0
H46	A32E	[Sensorless I gain]	0 ~ 32767	I gain for sensorless control		100	0
H47	A32F	[Sensorless torque limit]	100 ~ 220 [%]	Limits output torque in sensorless mode.		180.0	х
H48	A330	PWM mode select	0 ~ 1	If you want to limit a drive leakage current, select 2 phase PWM mode. 0 Normal PWM mode 1 2 phase PWM mode		0	Х
H49	A331	PID select	0 ~ 1	Seleo	cts whether using PID control or not	0	Х

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 Ru
H50 1)	A332	[PID F/B select]	0 ~ 1	0	Terminal I input (0 ~ 20mA)	0	х
1150	A332		0 ~ 1	1	Terminal V1 input (0 ~ 10V)	0	^
H51	A333	[P gain for PID]	0 ~ 999.9 [%]				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
				Select	s PID control mode		
H54	A336	[PID control mode select]	0 ~ 1	0	Normal PID control	0	Х
		mode setectj		1	Process PID control		
H55	A337	[PID output frequency high limit]	0.1 ~ 400 [Hz]		parameter limits the amount of the output frequency ugh the PID control.	60.00	0
H56	A338	[PID output frequency low limit]	0 ~ 400 [Hz]		value is settable within the range of F21 ? [Max frequency] F23 - [Start frequency].	0.50	0
					cts PID standard value.		
				2 V1 terminal setting 2: 0~10V		0	
		[PID standard value select]	0 ~ 4				
H57	A339						Х
				3	I terminal setting: 0~20mA	_	
				4	Setting as a RS-485 communication		
				Select	s a unit of the standard value or feedback amount.	0	
H58	A33A	PID control	0 ~ 1	0	Frequency[Hz]		X
		unit select		1	Percentage[%]		
				Select	the output direction of PID control.		
H59	A33B	PID Output	0 ~ 1	0	No	0	Х
		Inverse		1	Yes		
				0	Self-diagnostic disabled		
H60	A33C	[Self-diagnostic	0 ~ 3	1	IGBT fault/Ground fault	0	х
		select]		2	Output phase short & open/ Ground fault		
				3	Ground fault (This setting is unable when more than 11kW)		
H61 ²⁾	A33D	[Sleep delay time]	0 ~ 2000[s]	1	a sleep delay time in PID drive.	60.0	Х
					a sleep frequency when executing a sleep function in PID		
H62	A33E	[Sleep frequency]	0 ~ 400[Hz]		rol drive.	0.00	0
					can't set more than Max. frequency(F21)		
H63	A33F	[Wake up level]	0~100[%]		a wake up level in PID control drive.	35.0	0
H64	A340	[KEB drive select]	0~1	Sets	KEB drive.	0	Х
H65	A341	[KEB action start level]	110 ~ 140 [%]	Sets	KEB action start level according to level.	125.0	Х
	A342	[KEB action stop level]	110 ~ 145 [%]	Sets KEB action stop level according to level.		130.0	Х
H66		[KEB action	[/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%).



Compact AC Drive



Function Group 2

LED Display	Address for Communication	Parameter Name	Min/Max Range		Description	Factory Defaults	Adj. during Ru	
		[Frequency		0	Based on Max freq (F21)			
H70	A346	reference for accel/Decel]	0~1	1	Based on Delta freq.	0	X	
				0	Settable unit: 0.01 second.			
H71	A347	[Accel/Decel	0 ~ 2	1	Settable unit: 0.1 second.	1	0	
		time scale]		2	Settable unit: 1 second.			
					barameter selects the parameter to be displayed on the 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		0	
H72	A348	[Power on	0~15	7	Multi-Step frequency 3	0		
		display]		8	Output current			
			9	Motor rpm				
				10	Drive 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	16 Drive DC link voltage 2 17 User display select 2			
		[Monitoring		sele	-			
H73	A349	item select]	0 ~ 2	0	Output voltage [V]	0	0	
				1	Output power [kW]			
				2	Torque [kgf, m]			
H74	A34A	[Gain for motor rpm display]	1 ~ 1000 [%]		parameter is used to change the motor rotating speed n) to mechanical speed (m/mi) and display it.	100	0	
H75	A34B	[DB resistor operating rate	0 ~ 1	0	Unlimited	1	0	
		limit select]		1	Use DB resistor for the H76 set time.			
H76	A34C	[DB resistor operating rate]	0 ~ 30 [%]		the percent of DB resistor operating rate to be activated ng one sequence of operation.	10	0	
				0	Always ON			
H771)	A34D	A34D [Cooling fan control]	0 ~ 2	1	Keeps ON when its temp is higher than drive protection limit temp. Activated only during operation when its temp is below that of drive protection limit.	0	0	
				2	Regardless of the operation fan is active when is temp is higher than drive protection limit temp.			

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		Descr	iption	Factory Defaults	Adj. during Ru
H78	A34E	[Operating method select	0 ~ 1	0	Continuous operation w	nen cooling fan malfunctions.	0	0
1170		when cooling fan malfunctions	0	1	1 Operation stopped when cooling fan malfunctions.		5	0
H79	A34F	[S/W version]	0 ~ 10.0	This	parameter displays the driv	ve software version.	1.0	Х
H81 1)	A351	[2 nd motor Accel time]	0 ~ 6000				5.0	0
H82	A352	[2 nd motor decel time]	[eec]				10.0	0
H83	A353	[2 nd moto base frequency]	30 ~ 400 [Hz]				60.00	Х
H84	A354	[2 nd motor V/F pattern]	0 ~ 2				0	Х
H85	A355	[2 nd motor forward torque boost]	0 ~ 15				5	X
H86	A356	[2 nd motor reverse torque boost]	[%]		This parameter actives when the selected terminal is ON after I17-I24 is set to 12 {2 nd motor select}.		5	х
H87	A347	[2 nd motor stall prevention level]	30 ~ 150 [%]			150	Х	
H88	A358	[2nd 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	Х
H91 ²⁾	A35B	[Parameter read]	0 ~ 1	Copy t	the parameters from drive and	d save them into remote loader.	0	Х
H92	A35C	[Parameter write]	0 ~ 1	Copy t	the parameters from remote l	oader and save them into drive.	0	Х
					parameter is used to initial ry default value.	ize parameters back to the		
				0	-			
H93	A35D	[Parameter initialize]	0~5	1		initialized to factory default value.	0	X
		muauzej		2	Only drive group is initia			
				3	Only function group 1 is			
				4 Only function group 2 is initialized. 5 Only I/O group is initialized.				
H94	A35E	[Password register]	0 ~ FFFF	5 Unly I/U group is initialized. Password for H95-[Parameter lock]. Set as hexa value.		0	0	
				This parameter is able to lock or unlock parameters by typing password registered in H94.				
H95	A35F	[Parameter lock]	0 ~ FFFF			Parameter change enable	0	0
					L (Lock)	Parameter change disable		

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

Compact AC IG5A

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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	Sets the minimum voltage of the NV (-10V~0V) input		0
13	A403	[Frequency corresponding to I 2]	0 ~ 400 [Hz]		the drive output minimum frequency at minimum voltage e 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]		the drive output maximum frequency at maximum voltage e NV input	60.00	0
16	A406	[Filter time constant for V1 input]	0 ~ 9999	Adju	sts 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 17]	0 ~ 400 [Hz]		the drive output minimum frequency at minimum voltage e V1 input.	0.00	0
19	A409	V1 input Max voltage]	0 ~ 10 [V]	Sets	the maximum voltage of the V1 input.	10	0
I10	A40A	[Frequency corresponding to 19]	0 ~ 400 [Hz]		Sets the drive output maximum frequency at maximum voltage of the V1 input.		0
111	A40B	[Filter time constant for l input]	0 ~ 9999	Sets	Sets the input section's internal filter constant for I input.		0
l12	A40C	[l input Min current]	0 ~ 20 [mA]	Sets the minimum current of I input.		4.00	0
113	A40D	[Frequency corresponding to 12]	0 ~ 400 [Hz]		the drive output minimum frequency at minimum current nput.	0.00	0
114	A40E	[l input Max current]	0 ~ 20 [mA]	Sets	the Maximum current of l input.	20.00	0
115	A40F	[Frequency corresponding to 114]	0 ~ 400 [Hz]		the drive output maximum frequency at maximum current nput.	60.00	0
		[Criteria for		0	Disabled		
116	A410	analog Input	0 ~ 2	1	activated below half of set value.	0	0
		Signal loss]		2	2 activated below set value.		
		[Multi-function		0	Forward run command		
117	A411	input terminal P1 define]		1	Reverse run command	0	0
		[Multi-function		2	Emergency stop Trip	1	
118	A412	input terminal P2 define]	o	3			0
110	A/10	[Multi-function	0 ~ 27	4	4 Jog operation command 5 Multi-Step freq - Low		0
119	A413	input terminal P3 define]		5			0
120	A414	[Multi-function		6	Multi-Step freq - Mid	0	0
120	A414	input terminal P4 define]		7	Multi-Step freq - High	3	

* 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				Descr	ription				Factory Defaults	Adj. during Rur
101	A / 1E	[Multi-function		8	Multi a	ccel/De	cel - Low					,	0
121	A415	input terminal P5 define]		9	9 Multi accel/Decel - Mid							- 4	0
122	A416	[Multi-function		10	Multi a	ccel/De	cel - High	ו				E	0
122	A416	input terminal P6 define]		11	11 DC brake during stop						- 5	U	
123	A417	[Multi-function input terminal		12	2nd mo	otor sele	ect					4	0
123	A417	P7 define]		13	13 -Reserved-							- 6	
				14	-Reser	ved-							
				15	Up-dov		Frequen	cy increa	ise (UP)	comman	d]	
			0 ~ 27	16	op down		Frequen	requency decrease command (DOWN)			OWN)		
				17	3-wire	operatio	on						
				18			Contact]	
127	۸/10	[Multi-function input terminal		19			3 Contact						0
124		P8 define]		20	20 Self-diagnostic function 21 Change from PID operation to V/F operation						7	U	
					22 2nd source								
				23	Analog							1	
				24		Decel di	sable					1	
				25	Up/dov	vn Save	Freq. Init	ializatio	า				
			26	JOG-F									
				27	JOG-R		1			1	1		<u> </u>
125	A419	[Input terminal status display]		BIT7 P8	BIT6 P7	BIT5 P6	BIT4 P5	BIT3 P4	BIT2 P3	BIT1 P2	BIT0 P1	- 0	0
		[Output terminal		10	BI		15	14					
126	A41A	status display]			34	4C			I	M0		- 0	0
127	A41B	[Filtering time constant for Multi-function Input terminal]	1 ~ 15		value is se al is gett			ponsiver	ess of th	e Input		4	0
130	A41E	[Multi-step frequency 4]										30.00	0
131	A41F	[Multi-step frequency 5]	0 ~ 400	lt cor	not be se	t groate	r than E2	01 [Max	froquon	cyl		25.00	0
132	A420	[Multi-step frequency 6]	[Hz]	it cai		et greate		_	nequen	су].		20.00	0
133	A421	[Multi-step frequency 7]								15.00	0		
134	A422	[Multi-acce time 1]										3.0	0
135	A423	[Multi-decel time 1]	0 ~ 6000 [sec]									3.0	
136	A424	[Multi-accel time 2]										4.0	



LED Display	Address for Communication	Parameter Name	Min/Max Range		Descrip	tion		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	
141	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	
					Output item	Output to 10	1	-	
							400V		
150	A432	[Analog output item select]	0 ~ 3	0	Output freq. Output current		Max frequency 150%		0
		item seteetj		2	Output voltage	AC 282V	AC 564V	-	
				3	Drive DC link voltage	DC 400V	DC 800V	-	
151	A433	[Analog output level adjustment]	10 ~ 200% [%]		l on 10V.		20000	100	0
152	A434	[Frequency detection level]	0 ~ 400	Used	when 154 or 155 is set to 0-4.			30.00	0
153	A435	[Frequency detection	[Hz]	1	ot be set higher than F21.			10.00	0
		bandwidth]		0	FDT-1			12	
154	A436	[Multi-function		1	FDT-2				1
		output terminal select]		2	FDT-3				
				3	FDT-4				
				4	FDT-5			1	
			0 ~ 19	5	Overload (OLt)		1	0	
1155	A437	[Multi-function		6	Drive overload (IOLt)		17		
		relay select]		7	Motor stall (STALL)		1		
				8	Over voltage trip (Ovt)			1	
				9	Low voltage trip (Lvt)			1	



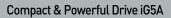
LED Display	Address for Communication	Parameter Name	Min/Max Range			Descript	ion		Factory Defaults	Adj. during Rur
				10	Drive overheat (O	Ht)				
			0~19	11	Command loss					
				12	During Run					
				13	During Stop					
155	A437	[Multi-function		14	During constant r				- 17	0
100	A407	relay select]	0 17	15	During speed sea					Ŭ
				16	Wait time for run				_	
				17	Multi-function rel				_	
				18	Warning for cooli)		_	
				19	Brake signal sele			1		
					When setting the H26-[Number of auto restart try]	When the other t	nan low	When the low voltage trip occurs		
				Bit 2	Bit 2		Bit 2			
				0	-	-		-		
156	A438	[Fault relay	0 ~ 7	1	-	-		\checkmark	2	0
100	A400	output]	0,	2	-	\checkmark		-	2	
				3	-	\checkmark		\checkmark		
				4	\checkmark	-		-		
				5	\checkmark	-		\checkmark		
				6	\checkmark	\checkmark		-		
				7	\checkmark			\checkmark		
		[Output terminal select when communication	0~3		Multi-function rela	у	termina	nction output l		
					Bit 1	Bit 0			0	
157	A439			0	-					0
		error occurs]		1				_		
				2	\checkmark		-		_	
				3	\checkmark					
		[Communication		Set communication protocol.						
159	A43B	protocol select]	0 ~ 1	0 Modbus RTU					0	X
			4 050	1	LS BUS					-
160	A43C	[Drive number]	1 ~ 250		for RS485 communic				1	0
					ct the baud rate of th	ie RS485			_	
				0	1200 [bps]	-			_	
161	A43D	[Baud rate]	0 ~ 4	1	2400 [bps]				- 3	0
				2	4800 [bps]				_	
				3	9600 [bps]				_	
					19200 [bps] used when freq com	mand is g	iven via V1	/I terminal or		
				RS4	1				_	
162	A43E	[Drive mode select after loss	0 ~ 3	O Continuous operation at the frequency before its command is lost.				y before its	0	0
		of frequency command]		1	Free run stop (Ou	tput cut-o	off)			
		commanuj		2	Decel to stop					
				3	Lose preset					





LED Display	Address for Communication	Parameter Name	Min/Max Range		Description	Factory Defaults	Adj. during Ru
163	A43F	[Wait time after loss of frequency command]	0.1 ~ 120 [sec]	freq inpu	is the time drive determines whether there is the input uency command or not. If there is no frequency command t during this time, drive starts operation via the mode cted at I62.	1.0	0
164	A440	[Communication time setting]	2~ 100 [ms]	Fran	ne communication time	5	0
				When the protocol is set, the communication format can be set.			
		[Parity/stop bit		0	Parity: none, Stop bit: 1	_	
165	A441	setting]	0 ~ 3	1	Parity: none, Stop bit: 2	0	0
				2	Parity: even, Stop bit: 1		
				3	Parity: odd, Stop bit: 1		
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]		The	The user can register up to 8 discontinuous addresses and read them all with one read command.		- 0
170	A446	[Read address register 5]	0 ~ 42239				
171	A447	[Read address register 6]				10	
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]		The	user can register up to 8 discontinuous addresses and	8	-
178	A44E	[Write address register 5]	0 ~ 42239		e them all with one write command	5	- 0
179	A44F	[Write address register 6]				6	-
180	A450	[Write address register 7]				7	-
181	A451	[Write address register 8]					-
1821)	A452	[Brake open current]	0 ~ 180 [%]	Sets current level to open the brake. It is set according to H33's (motor rated current) size		50.00	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 delay time]	0 ~ 10 [s]	Sets Brake open dely time.	1.00	Х
184	A454	[Brake open FX frequency]	0 ~ 400 [Hz]	Sets FX frequency to open the brake	1.00	X
185	A455	[Brake open RX frequency]	0 ~ 400 [Hz]	Sets RX frequency to open the brake	1.00	Х
186	A456	[Brake close delay time]	0 ~ 19 [s]	Sets delay time to close the brake	1.00	х
187	A457	[Brake close frequency	0 ~ 400 [Hz]	Sets frequency to close the brake	2.00	Х



Protective Functions



Keypad Display	Protective Functions	Descriptions
		The drive turns off its output when the output current of the drive flows more than 200% of the drive rated current.
		The drive turns off its output when a ground fault occurs and the ground fault current is more than the internal setting value of the drive
		The drive turns off its output when the output current of the drive flows more than the rated level (150% for 1 minute).
		The drive turns off its output if the output current of the drive flows at 150% of the drive rated current for more than the current limit time (1min).
<u> </u>		The drive 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.
		The drive turns off its output when the one or more of the output (U, V, W) phase is open. The drive detects the output current to check the phase loss of the output.
		The drive 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		The drive 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 drive drops.
		The internal electronic thermal of the drive determines the overheating of the motor. If the motor is overloaded, the drive turns off the output. The drive cannot protect the motor when driving a motor having more than 4 poles or multi motors.
		Drive output is blocked when one of R, S, T is open or the electrolytic capacitor needs to be replaced.
Fitt		Displayed when IGBT damage, output phase short, output phase ground fault or output phase open occurs.
[133]		Displayed when user-setting parameters fails to be entered into memory.
		Displayed when an error occurs in the control circuitry of the drive.
Err		Displayed when the drive cannot communicate with the keypad.
(rErr)		Displayed when the drive and the remote keypad do not communicate with each other. It does not stop drive operation.
		Displayed after the drive resets the keypad when a keypad error occurs and this
Fån		Displayed when a fault condition occurs in the drive cooling fan.
E5 E		Used for the emergency stop of the drive. The drive instantly turns off the output when the EST terminal is turned on. Caution: The drive starts to regular operation when turning off the EST terminal while FX or RX terminal is ON.
[[]		When multi-function input terminal (I20-I24) is set to 19 {External fault signal input A: (Normal Open Contact)}, the drive turns off the output.
[}		When multi-function input terminal (I20-I24) is set to 19 {External fault signal input B: (Normal Close Contact)}, the drive turns off the output.
		VWhen drive 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).

Compact & Powerful Drive iG5A

Fault Remedy

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Keypad Display	Cause	Remedy
	Caution: When an overcurrent fault occurs, operation mu to avoid damage to IGBT inside the drive.	ist be started after the cause is removed
current	Accel/Decel time is too short compared to the GD ² of the load. Load is greater than the drive rating. Drive 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 drive 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 drive. The insulation of the motor is damaged due to heat.	- Check the wiring of the output terminal. - Replace the motor.
Drive Overload	Load is greater than the drive rating.	- Upgrade the capacity of motor and drive or reduce
Overload Trip	Torque boost scale is set too large.	the load weight. - 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 drive securely. Check output wiring.
FR Cooling Fan Fault	An alien substance is clogged in a ventilating slot. Drive 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 drive 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 drive.	 Check whether line voltage is below its rating. Check the incoming AC line. Adjust the line capacity corresponding to the load.
Electronic Thermal	Motor has overheated. Load is greater than drive rating. ETH level is set too low. Drive capacity is incorrectly selected. Drive has been operated at low speed for too long.	 Change a magnetic switch. Reduce load weight and operating duty. Change drive with higher capacity. Adjust ETH level to an appropriate level. Select correct drive capacity. Install a cooling fan with a separate power supply.
External Fault A Contact Input	The terminal set to "18 (External fault- A)" or	- Eliminate the cause of fault at circuit connected to
External Fault B Contact Input	"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.	- Check the wiring of V1 and I and frequency reference level.
Remote Keypad Communication Error	Communication error between drive keypad and remote keypad.	 Check for connection of communication line and connector.
EFP H''E Err [0],	- EEP: Parameter save error - HWT: Hardware fault - Err: Communication Error - COM: Keypad error	- Contact your LS ELECTRIC sales distributor.