Compact & Powerful Inverter
Starvert iG5A

0.4~7.5kW 3Phase 200~230Volts
0.4~7.5kW 3Phase 380~480Volts
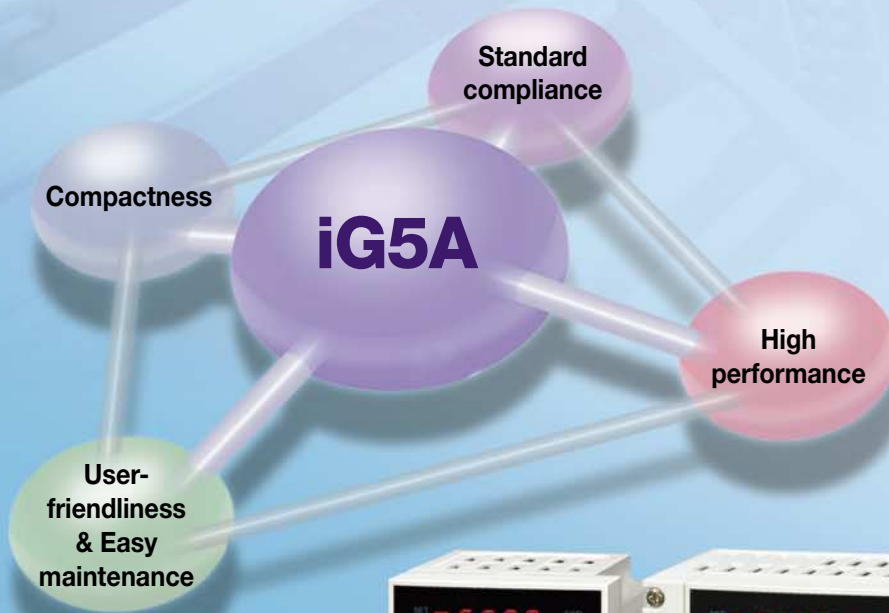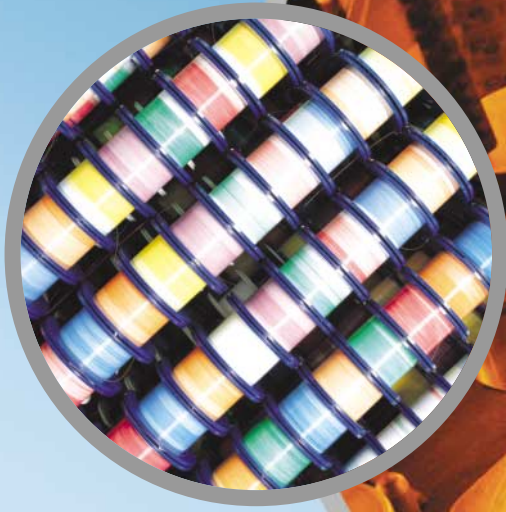
Automation Equipment

LS Industrial Systems
www.lsis.biz

Inverter
STARVERT iG5A

LS Starvert iG5A is very competitive in its price and shows an upgraded functional strength compared to iG5. User-friendly interface, extended inverter ranges up to 7.5kW, superb torque competence and small size of iG5A provides an optimum use environment.

Standard compliance

Compactness

iG5A

High performance

User-friendliness & Easy maintenance

C o n t e n t s

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.
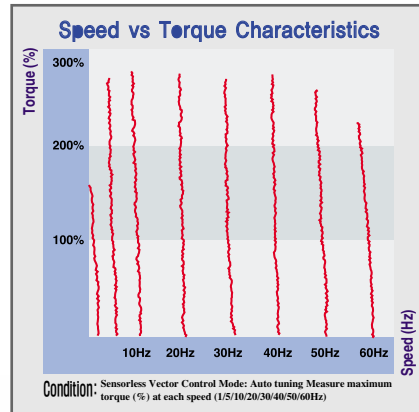
Ground-fault protection during running

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

Speed vs Torque Characteristics

Torque (%): 300%, 200%, 100%

Speed (Hz): 10Hz 20Hz 30Hz 40Hz 50Hz 60Hz

Condition: Sensorless Vector Control Mode: Auto tuning Measure maximum torque (%) at each speed (1/5/10/20/30/40/50/60Hz)

Analog control from -10V to 10V

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

+10 Forward

Reverse

-10
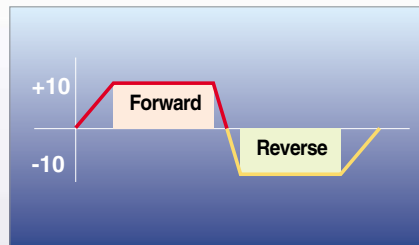
Built-in PID control

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

PID control
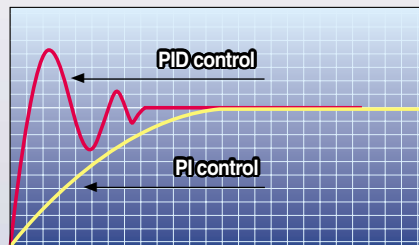
PI control

Built-in dynamic braking circuit

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

Speed

With braking resistor

Normal state

Time

Reducing deceleration time
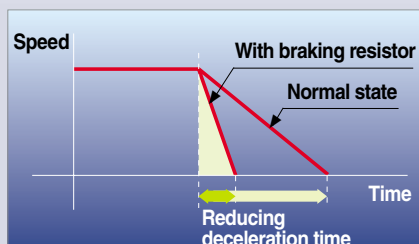
Built-in 485 communication

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 7.5kW.

RS-485 communication

Connected to PC

RS-485 — 232C converter
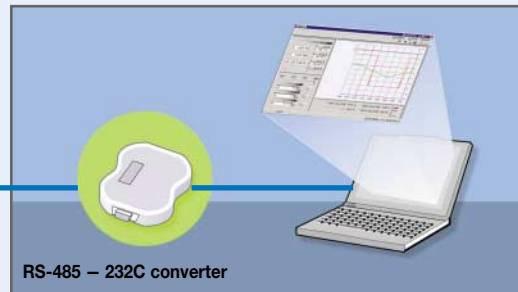
■ Monitoring

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

■ Remote Control

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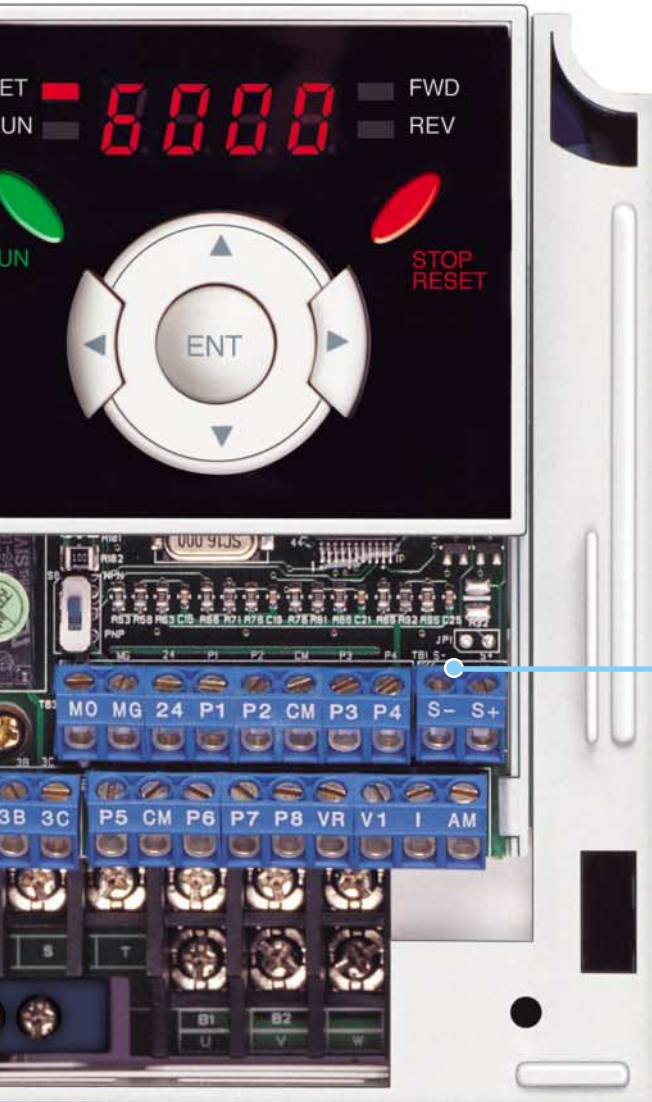 (Forward/Reverse operation, Frequency, etc)
- Easy parameter setting
- Available to control up to 31 Inverters
- RS-485, Modbus communication

Connected to XGT panel

■ Monitoring

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

■ Remote Control

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

User-friendly Interface & Easy Maintenance

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

Diagnosis of output module

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

Easy change of fan

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

Cooling fan control

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

User-friendly interface

The 4 directions key provides easy handling and monitoring.

External loader (Optional)

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

Loader type + External type (Optional)

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

130

128

70

SET
RUN

RUN

ENT

Compact Size

The compact size, improved by 46% smaller than
iG5 achieves cost-efficiency and various applications.

🔵 **Same height from 0.4 to 4.0kW (128mm)**

Global standard compliance CE UL

🔵 **Global standard**
iG5A series complies with CE and UL standards.

🔵 **PNP/NPN input**
Both PNP and NPN inputs become possible and these enable to
use the outer power.
To do so, users will be given wider choices of selecting the
controller.

Model & Type

Applicable motor ranges	200V Series	400V Series
0.4kW (0.5HP)	SV004iG5A-2	SV004iG5A-4
0.75kW (1HP)	SV008iG5A-2	SV008iG5A-4
1.5kW (2HP)	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

SV	015	iG5A	-	2

STARVERT

Motor rating (kW)
(004: 0.4kW~075: 7.5kW)

iG5A series

Input voltage
(2: 220V Series, 4: 400V Series)
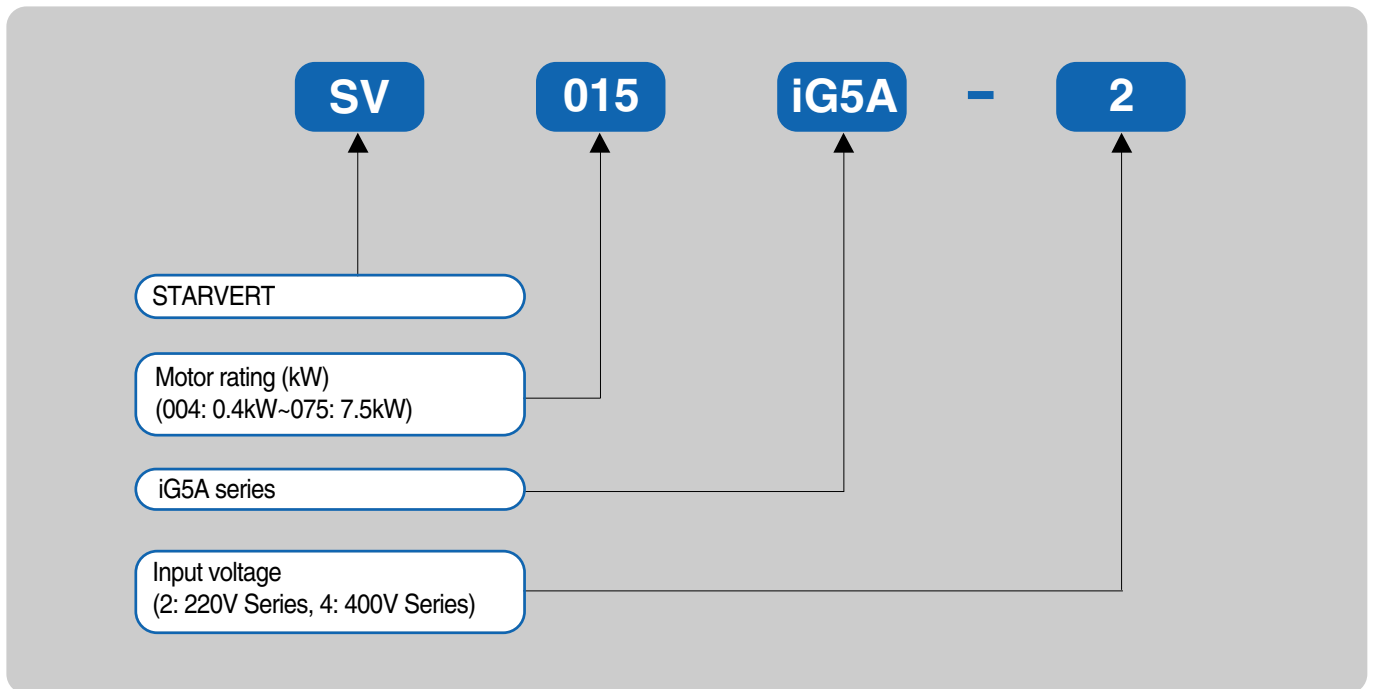
Standard Specifications

∷ 200V Series

SV☐☐☐ iG5A-2		004	008	015	022	037	040	055	075
Max. capacity [1]	(HP)	0.5	1	2	3	5	5.4	7.5	10
	(kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5
Output rating	Capacity (kVA) [2]	0.95	1.9	3.0	4.5	6.1	6.5	9.1	12.2
	Rated current (A) [3]	2.5	5	8	12	16	17	24	32
	Max. output frequency (Hz)	400 [4]							
	Max. output voltage (V)	3 phase 200~230 [5]							
Input rating	Voltage (V)	3 phase 200~230VAC (+10%, -15%)							
	Frequency (Hz)	50~60 (±5%)							
Cooling method		Natural	Forced air cooling						
Weight		0.76	0.77	1.12	1.84	1.89	1.89	3.66	3.66

∷ 400V Series

SV☐☐☐ iG5A-4		004	008	015	022	037	040	055	075
Max. capacity [1]	(HP)	0.5	1	2	3	5	5.4	7.5	10
	(kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5
Output rating	Capacity (kVA) [2]	0.95	1.9	3.0	4.5	6.1	6.9	9.1	12.2
	Rated current (A) [3]	1.25	2.5	4	6	8	9	12	16
	Max. output frequency (Hz)	400 [4]							
	Max. output voltage (V)	3 phase 380~480 [5]							
Input rating	Voltage (V)	3 phase 380~480VAC (+10%, -15%)							
	Frequency (Hz)	50~60 (±5%)							
Cooling method		Natural	Forced air cooling						
Weight		0.76	0.77	1.12	1.84	1.89	1.89	3.66	3.66

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.
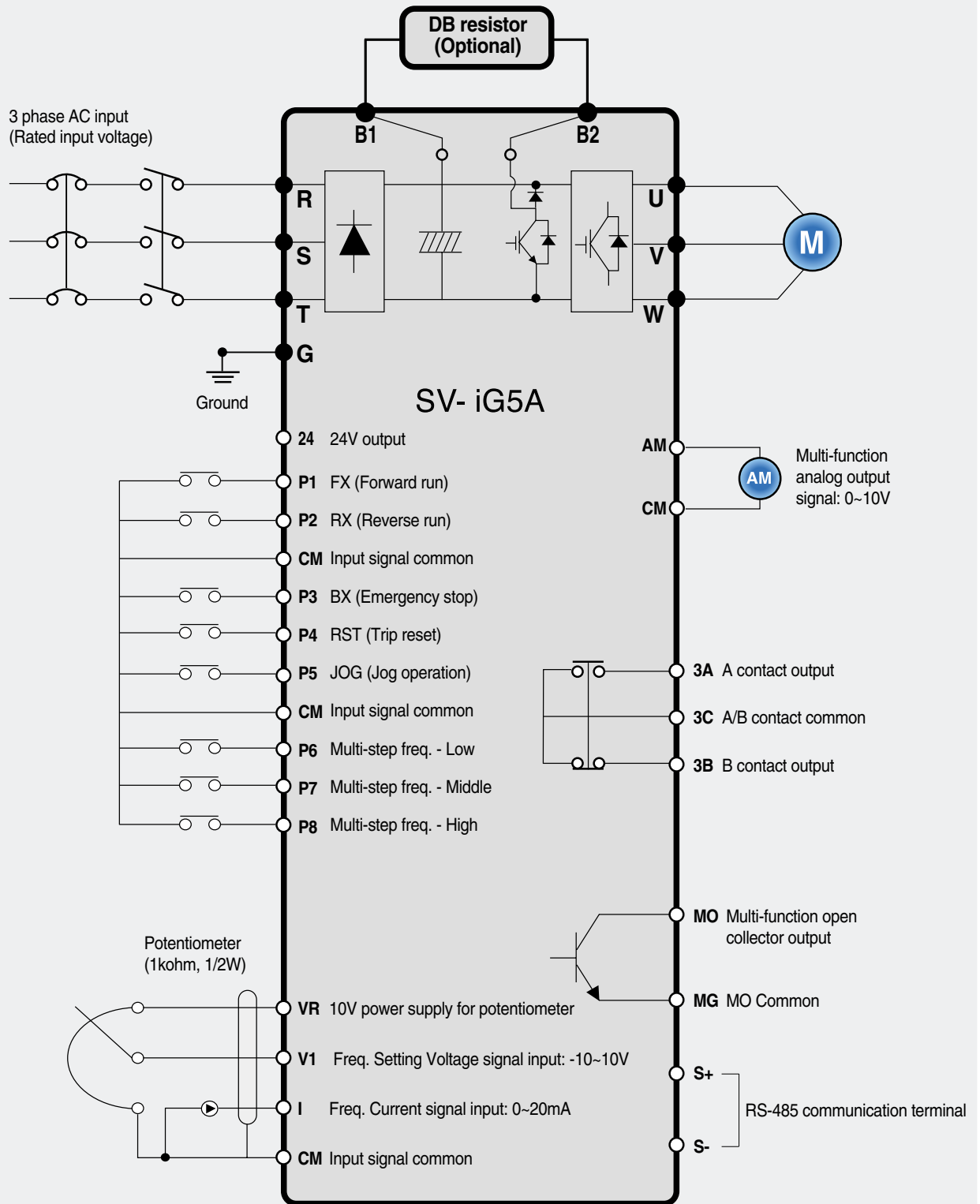
Standard Specifications

Control	Control method	V/F, Sensorless vector control
	Frequency setting resolution	Digital command: 0.01Hz Analog command: 0.06Hz (Max. freq.: 60Hz)
	Frequency accuracy	Digital command: 0.01% of Max. output frequency Analog command: 0.1% of Max. output frequency
	V/F pattern	Linear, Squared, User V/F
	Overload capacity	150% per 1 min.
	Torque boost	Manual/Auto torque boost
	Dynamic braking — Max. braking torque	20% [1]
	Dynamic braking — Max. Duty	150% when using optional DB resistor [2]

Operation	Operation mode		Keypad/ Terminal/ Communication option/ Remote keypad selectable
	Frequency setting		Analog: 0~10V, -10~10V, 0~20mA Digital: Keypad
	Operation features		PID, Up-down, 3-wire
	Input	Multi-function terminal P1~P8	NPN/PNP selectable FWD/REV RUN, Emergency stop, Fault reset, Jog operation, Multi-step Frequency-High, Mid, Low, Multi-step Accel/Decel-High, Mid, Low, DC braking at stop, 2nd motor select, Frequency UP/Down, 3-wire operation, External trip A, B, PID-Inverter (V/F) operation bypass, Option-inverter (V/F) operation bypass, Analog Hold, Accel/Decel stop
	Output	Open collector terminal	Fault output and inverter status output — Less than DC 24V, 50mA
		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

Protective function	Trip	Over voltage, Under voltage, Over current, Ground fault current detection, Inverter overheat, Motor overheat, Output phase open, Overload protection, Communication error, Loss of speed command, Hardware fault, Fan trip
	Alarm	Stall prevention, Overload
	Momentary power loss	Below 15 msec.: Continuous operation (Should be within rated input voltage, rated output power.) Above 15 msec.: Auto restart enable

Environment	Protection degree	IP 20
	Ambient temp	-10℃~50℃
	Storage temp	-20℃~65℃
	Humidity	Below 90% RH (No condensation)
	Altitude/Vibration	Below 1,000m, 5.9m/sec^2 (0.6G)
	Atmospheric pressure	70~106 kPa
	Location	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

DB resistor (Optional)

3 phase AC input
(Rated input voltage)

B1   B2

R
S
T
G

Ground

SV- iG5A

U
V
W

M

24   24V output

P1   FX (Forward run)
P2   RX (Reverse run)
CM   Input signal common
P3   BX (Emergency stop)
P4   RST (Trip reset)
P5   JOG (Jog operation)
CM   Input signal common
P6   Multi-step freq. - Low
P7   Multi-step freq. - Middle
P8   Multi-step freq. - High

AM   Multi-function analog output signal: 0~10V
CM

AM

3A   A contact output
3C   A/B contact common
3B   B contact output

MO   Multi-function open collector output
MG   MO Common

Potentiometer
(1kohm, 1/2W)

VR   10V power supply for potentiometer
V1   Freq. Setting Voltage signal input: -10~10V
I   Freq. Current signal input: 0~20mA
CM   Input signal common

S+
S-

RS-485 communication terminal

Terminal Configuration

∷ Specifications for power terminal block wiring

• 0.4~1.5kW (200V/400V)

R	S	T	B1	B2	
			U	V	W

• 2.2~4.0kW (200V/400V)

R	S	T	B1	B2	U	V	W

• 5.5~7.5kW (200V/400V)

B1		B2	U	V	W
R	S	T			
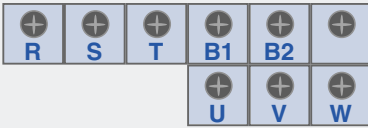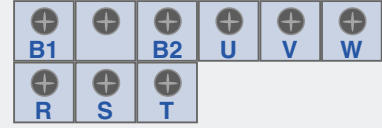
Terminal	Description
R, S, T	AC Line voltage input
B1, B2	Connection terminal for DB resistor (Optional)
U, V, W	Connection terminal for motor

Inverter capacity	200V Series			400V Series		
	Wire size [1]	Terminal screw	Grounding method	Wire size [1]	Terminal screw	Grounding method
0.4~0.75kW	2mm²	M3.5	Type 3	2mm²	M3.5	Special Type 3
1.5kW	2mm²	M3.5		2mm²	M4	
2.2kW	2mm²	M4		2mm²	M4	
3.7~4.0kW	3.5mm²	M4		2mm²	M4	
5.5kW	5.5mm²	M5		3.5mm²	M5	
7.5kW	8mm²	M5		3.5mm²	M5	

∷ Control terminal specifications

MO	MG	24	P1	P2	CM	P3	P4		S-	S+

3A	3B	3C		P5	CM	P6	P7	P8	VR	V1	I	AM
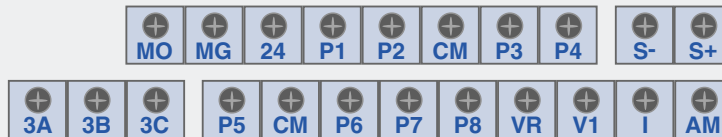
Terminal	Description	Wire size (mm²)		Screw size	Torque (Nm) [2]	Specification
		Single wire	Stranded			
P1~P8	Multi-function input T/M 1-8	1.0	1.5	M2.6	0.4	
CM	Common terminal	1.0	1.5	M2.6	0.4	
VR	Power supply for external potentiometer	1.0	1.5	M2.6	0.4	Output voltage: 12V Max. output current: 100mA 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
AM	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 Copper wires rated 600V, 75℃ and higher.
2) 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
KEY	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
	▶	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
LED [1]	FWD	Forward run	Lit during forward run
	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.
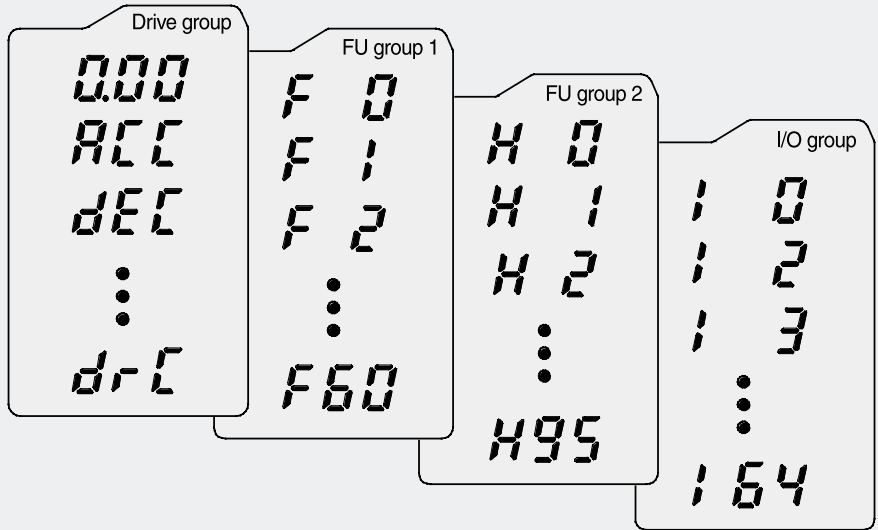
⠿ Dimensions
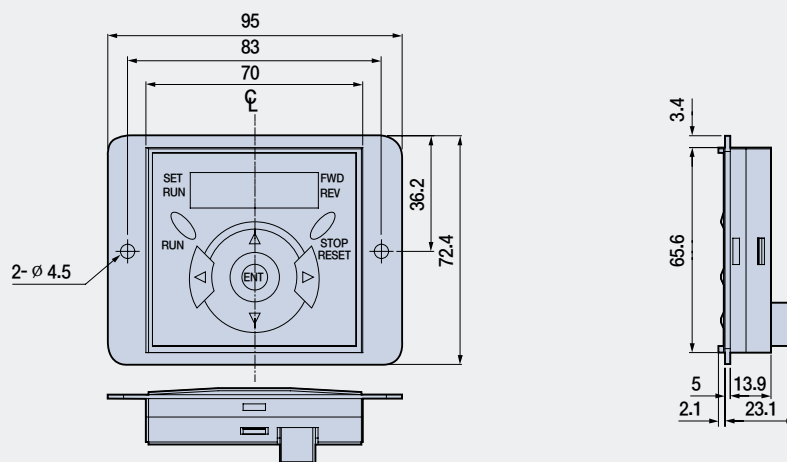
Moving to Other Groups

:: Parameter groups

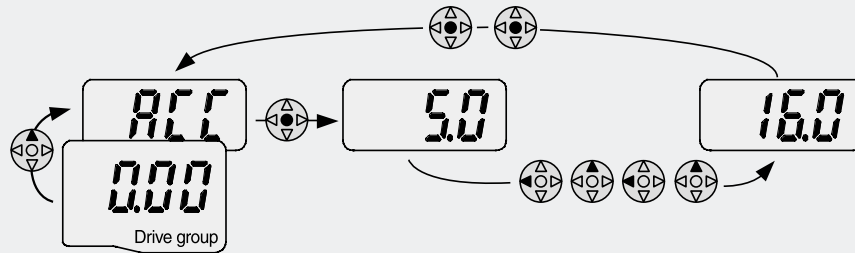There are 4 different parameter groups in iG5A series as shown below.

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

:: Moving to other groups

Moving to other groups using the Right (▶) key	Moving to other groups using the Left (◀) key
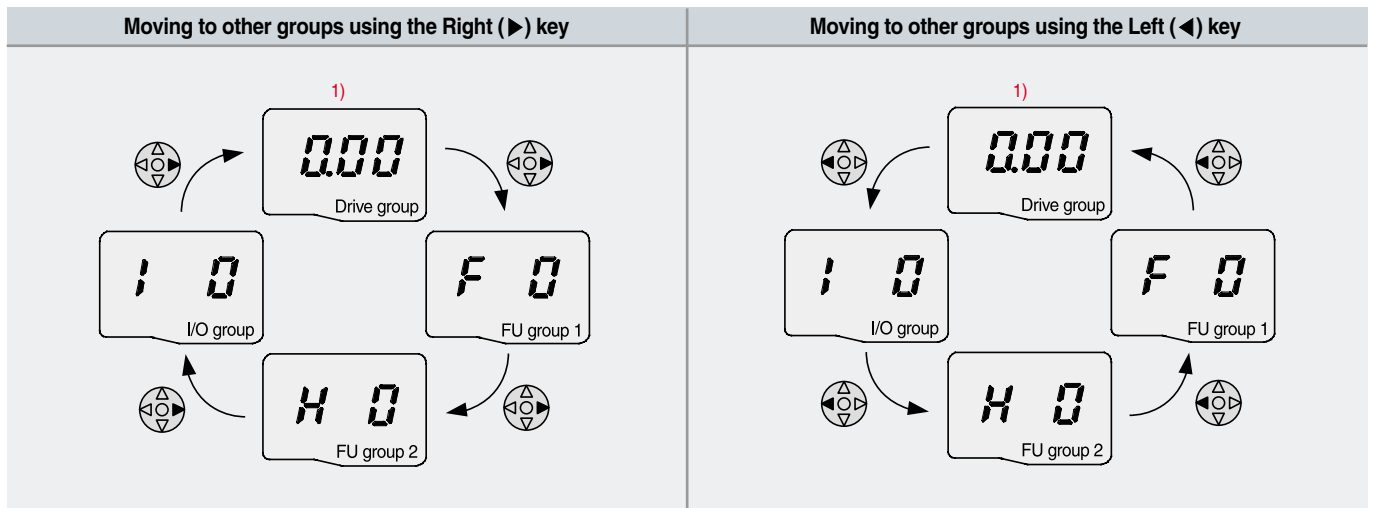
1) Target frequency can be set at 0.0 (the 1st code of drive group). Even though the preset value is 0.0, it is user-settable.
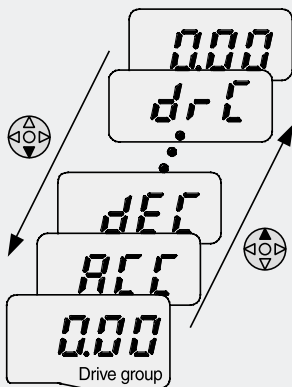   The changed frequency will be displayed after it is changed.

When changing ACC time from 5.0 sec to 16.0 sec

Drive group

1	`0.00`	· In the first code "0.00", press the Up (▲) key once to go to the second code.
2	`ACC`	· ACC [Accel time] is displayed. · Press the Ent (●) key once.
3	`5.0`	· 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	`5.0`	· The digit 5 in 5.0 is active. Then press the Up (▲) key once.
5	`6.0`	· The value is increased to 6.0 · Press the Left (◀) key to move the cursor to the left.
6	`06.0`	· 0.60 is displayed. The first 0 in 0.60 is active. · Press the Up (▲) key once.
7	`16.0`	· 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`	· 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 (●) key in this status will enter the value into memory.
※ In step 7, pressing the Left (◀) or Right (▶) key while 16.0 is blinking will disable the setting.

Code change in Drive group

Drive group

1	`0.00`	· In the 1st code in Drive group "0.00", press the Up (▲) key once.
2	`ACC`	· The 2nd code in Drive group "ACC" is displayed. · Press the Up (▲) key once.
3	`dEC`	· The 3rd code "dEC" in Drive group is displayed. · Keep pressing the Up (▲) key until the last code appears.
4	`drC`	· The last code in Drive group "drC" is displayed. · Press the Up (▲) key again.
5	`0.00`	· Return to the first code of Drive group.

· Use Down (▼) key for the opposite order.

Trial Run

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

Operation condition

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

Wiring
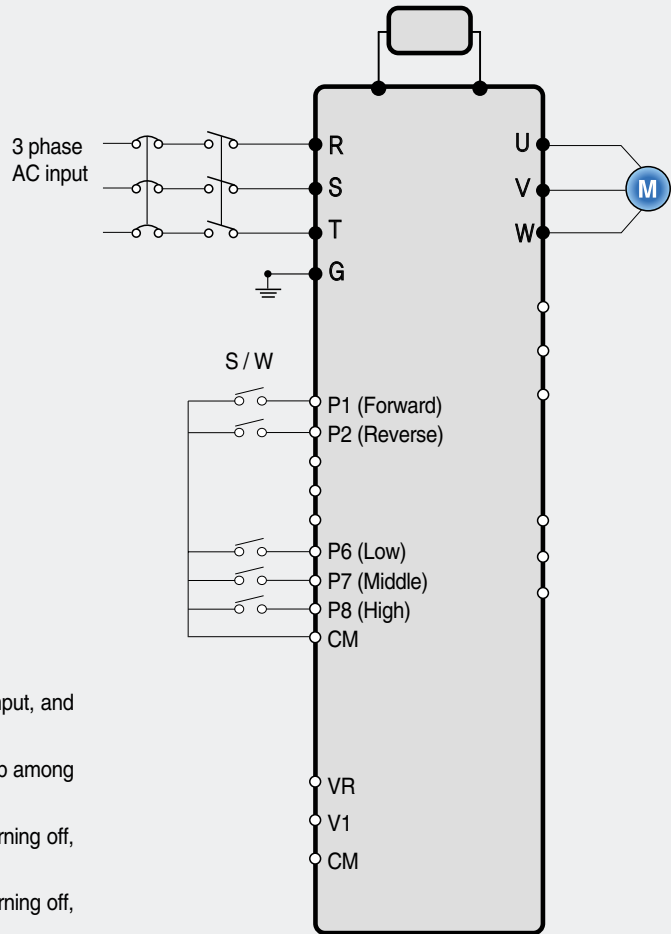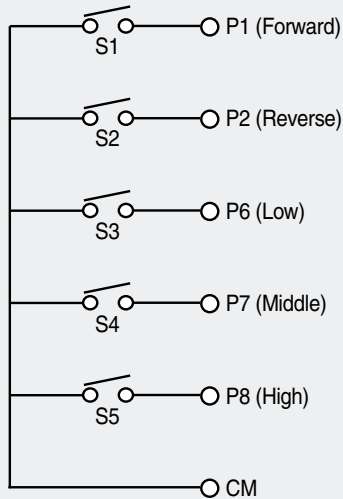
1. Please make sure that R, S, T are connected to 3 phase AC input, and U, V, W are also motor connection terminals.

2. After supplying the power, please set the frequency of multi-step among Low, Middle, and High.

3. If P1 (FX) turns on, the motor operates in forward. And after turning off, it stops according to the deceleration time.

4. If P2 (RX) turns on, the motor operates in reverse. And after turning off, it stops according to the deceleration time.

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)**	**I30**	Set 'High' step.	30Hz	80Hz
5	**Forward run (P1: FX)**	**I17**	The default is FX. This value may change.	FX	FX
6	**Reverse run (P2: RX)**	**I18**	The default is RX. This value may change.	RX	RX

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

Operation condition

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

Wiring

Potentiometer 1~5kohm, 1/2W

VR
V1
CM

0~60Hz

3 phase
AC input
R
S
T
G

Motor
U
V
W
IM

P1 (FX) Forward
P2 (RX) Reverse

CM

VR
V1
CM
Potentiometer
1~5kohm, 1/2W

1. Please make sure that R, S, T are connected to 3 phase AC input, and U, V, W are also motor connection terminals.

2. After supplying the power, please set the frequency of multi-step among Low, Middle, and High.

3. If P1 (FX) turns on, the motor operates in forward. And after turning off, it stops according to the deceleration time.

4. If P2 (RX) turns on, the motor operates in reverse. And after turning off, it stops according to the deceleration time.
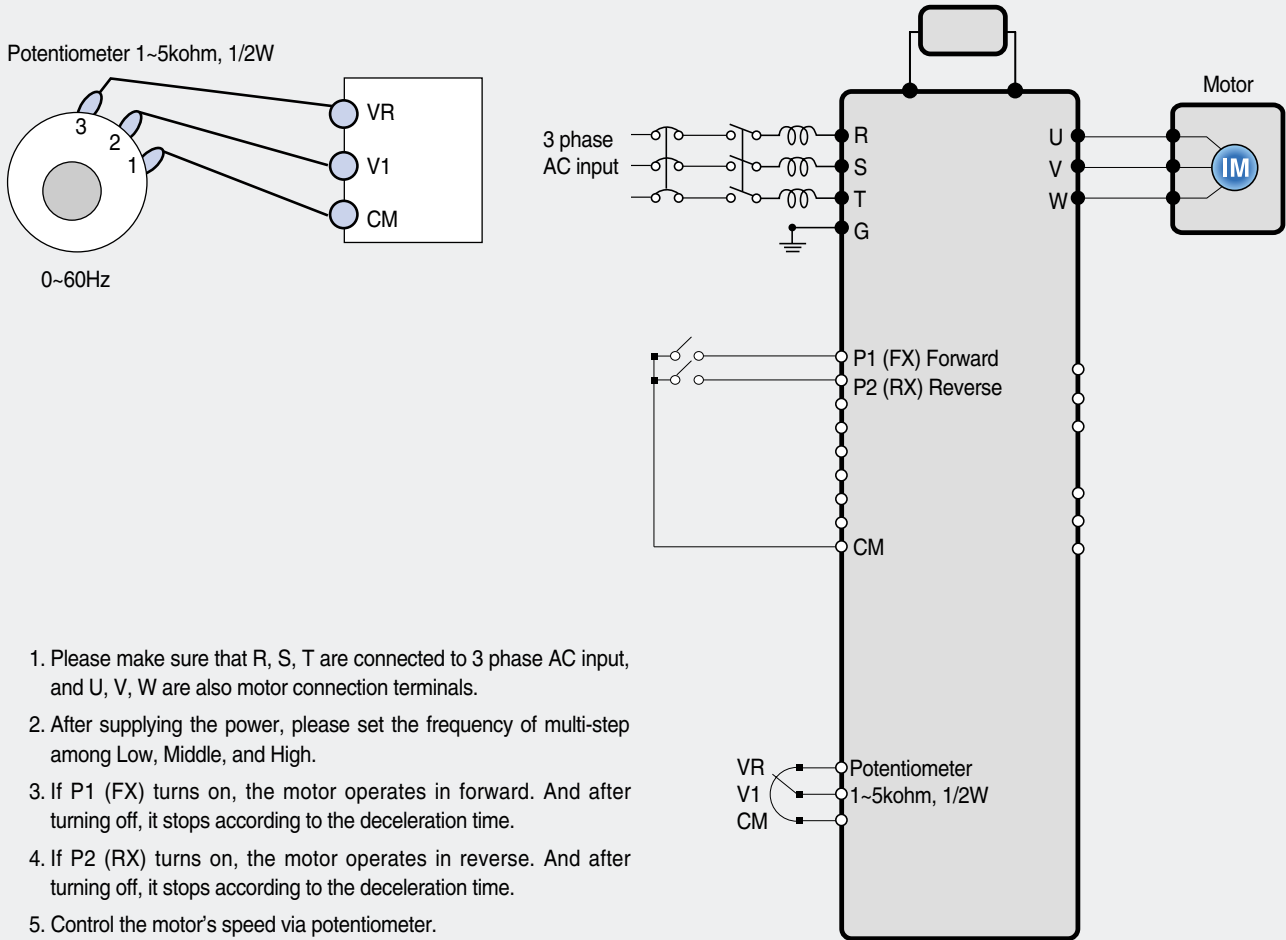
5. Control the motor's speed via potentiometer.

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)	I17	The default is FX. This value may change	FX	FX
5	Reverse run (P2: RX)	I18	The default is RX. This value may change.	RX	RX

Dimensions

SV004iG5A-2 / SV008iG5A-2, SV004iG5A-4 / SV008iG5A-4
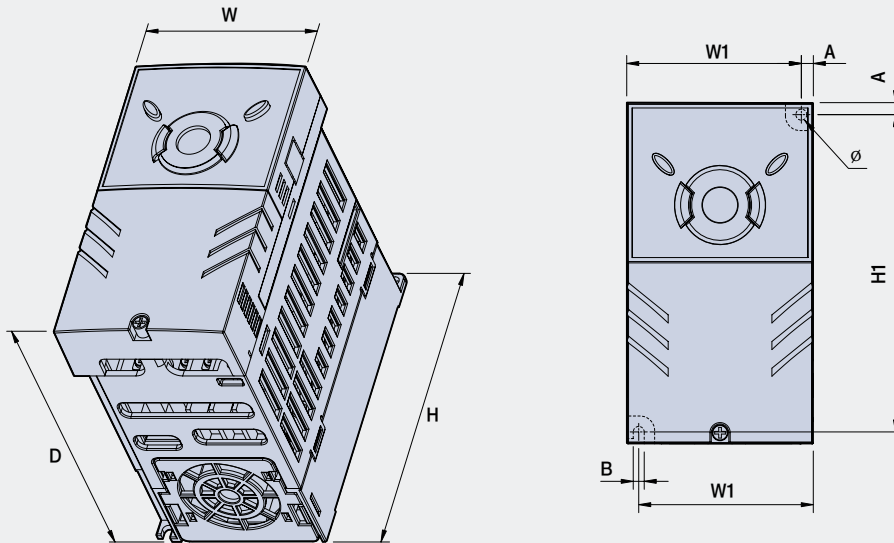
mm (inches)

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
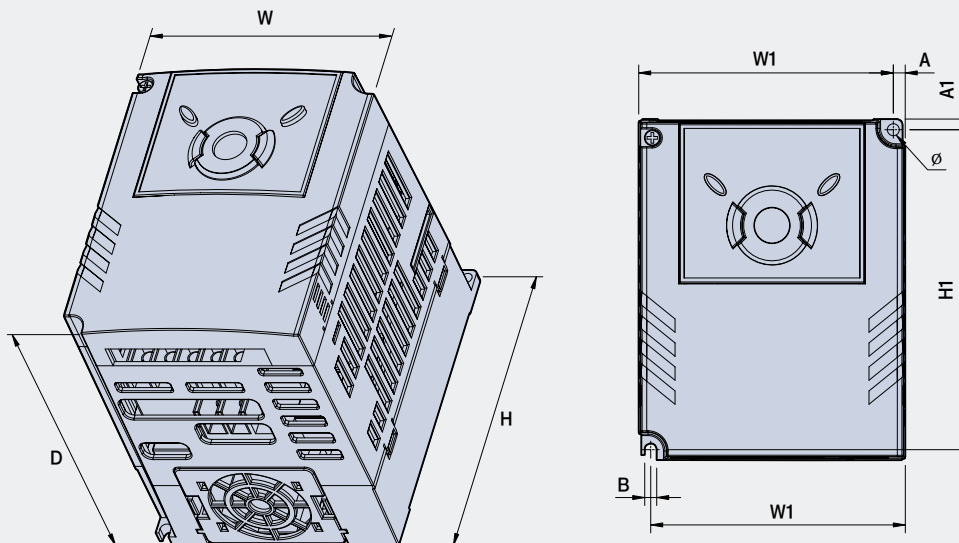
mm (inches)

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
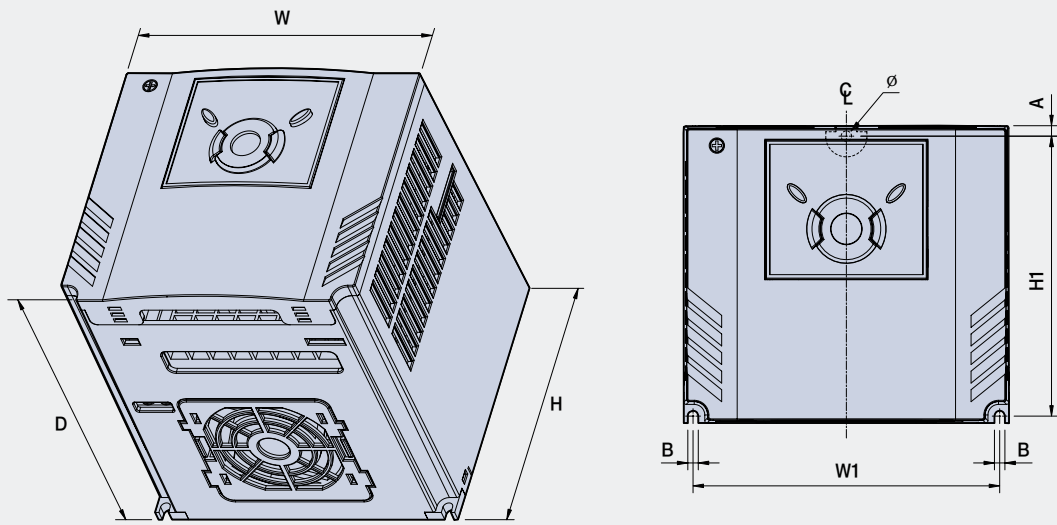
mm (inches)

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
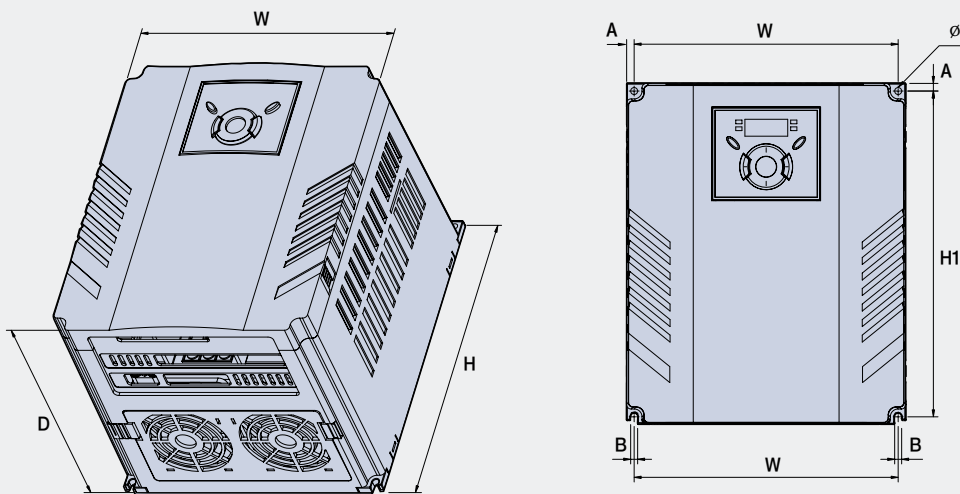
mm (inches)

Inverter model	(kW)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D (mm)	Ø	A (mm)	B (mm)	(kg)
SV004IG5A-2	5.5	180	170	220	210	170	4.5	5	4.5	3.66
SV008IG5A-2	7.5	180	170	220	210	170	4.5	5	4.5	3.66
SV004IG5A-4	5.5	180	170	220	210	170	4.5	5	4.5	3.66
SV008IG5A-4	7.5	180	170	220	210	170	4.5	5	4.5	3.66

Braking Resistors and Peripheral Devices

:: Braking resistors

Voltage	Inverter	100% braking		150% braking	
		Resistor [Ω]	Watt [W][1]	Resistor [Ω]	Watt [W][1]
200V Series	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
	5.5	30	700	20	800
	7.5	20	1000	15	1200
400V Series	0.4	1800	50	1200	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
	5.5	120	700	85	1000
	7.5	90	1000	60	1200

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

:: Breakers

Model	Breaker	
	Current [A]	Voltage [V]
004iG5A-2	30	220
008iG5A-2	30	220
015iG5A-2	30	220
022iG5A-2	30	220
037iG5A-2	30	220
040iG5A-2	30	220
055iG5A-2	50	220
075iG5A-2	60	220

Model	Breaker	
	Current [A]	Voltage [V]
004iG5A-4	30	460
008iG5A-4	30	460
015iG5A-4	30	460
022iG5A-4	30	460
037iG5A-4	30	460
040iG5A-4	30	460
055iG5A-4	30	460
075iG5A-4	30	460

:: Fuses & AC reactors

Model	AC external fuse		AC reactor
	Current [A]	Voltage [V]	
004iG5A-2	10	500	4.20mH, 3.5A
008iG5A-2	10	500	2.13mH, 5.7A
015iG5A-2	15	500	1.20mH, 10A
022iG5A-2	25	500	0.88mH, 14A
037iG5A-2	30	500	0.56mH, 20A
040iG5A-2	30	500	0.56mH, 20A
055iG5A-2	30	500	0.39mH, 30A
075iG5A-2	50	500	0.28mH, 40A
004iG5A-4	5	500	18.0mH, 1.3A
008iG5A-4	10	500	8.63mH, 2.8A
015iG5A-4	10	500	4.81mH, 4.8A
022iG5A-4	10	500	3.23mH, 7.5A
037iG5A-4	20	500	2.34mH, 10A
040iG5A-4	20	500	2.34mH, 10A
055iG5A-4	20	500	1.22mH, 15A
075iG5A-4	30	500	1.14mH, 20A

Function List

⠿ Drive Group

LED display	Parameter name	Description	Factory default	Adj. during run
0.00	During stop: Frequency command During run: Output frequency	0~400Hz	0.00	Yes
ACC	Accel time	0~6000sec	5.0	Yes
dEC	Decel time		10.0	Yes
drv	Drive mode	0 (Keypad), 1 (FX/RX-1), 2 (FX/RX-2), 3 (RS-485)	1	No
Frq	Frequency setting method	0 (Keypad-1), 1 (Keypad-2), 2 (V1S: -10~10V), 3 (V1: 0~10V) 4 (I: 0~20mA), 5 (V1S+I), 6 (V1+I), 7 (RS-485)	0	No
St1	Multi-Step frequency 1		10.00	Yes
St2	Multi-Step frequency 2	0~400Hz	20.00	Yes
St3	Multi-Step frequency 3		30.00	Yes
CUr	Output current	A	–	–
rPM	Motor RPM	rpm	–	–
dCL	Inverter DC link voltage	V	–	–
vOL	User display select	vOL, Por, tOr	vOL	–
nOn	Fault display	-	nOn	–
drC	Direction of motor rotation select	F (Forward), R (Reverse)	F	Yes
Drv2 [1]	Drive mode 2	0 (Keypad), 1 (FX/RX-1), 2 (FX/RX-2)	1	No
Frq2	Frequency setting method 2	0 (Keypad-1), 1 (Keypad-2), 2 (V1S-: 10~10V), 3 (V: 0~10V) 4 (I: 0~20mA), 5 (V1S+I), 6 (V1+I)	0	No

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

⠿ Function group 1

LED display	Parameter name	Description	Factory default	Adj. during run
F0	Jump code	0~60	1	Yes
F1	Forward/Reverse run disable	0 (Fwd and rev run enable), 1 (Forward run disable), 2 (Reverse run disable)	0	No
F2	Accel pattern	0 (Linear), 1 (S-curve)	0	No
F3	Decel pattern		0	
F4	Stop mode select	0 (Decelerate to stop), 1 (DC brake to stop), 2 (Free run to stop)	0	No
F8 [1]	DC brake start frequency	Start frequency, 0~60Hz	5.00	No
F9	DC brake wait time	0~60sec	0.1	No
F10	DC brake voltage	0~200%	50	No
F11	DC brake time	0~60sec	1.0	No
F12	DC brake start voltage	0~200%	50	No
F13	DC brake start time	0~60sec	0	No
F14	Time for magnetizing a motor	0~60sec	1.0	No
F20	Jog frequency	0~400Hz	10.00	Yes
F21 [2]	Max. frequency	40~400Hz	60.00	No
F22	Base frequency	30~400Hz	60.00	No
F23	Start frequency	0~10Hz	0.50	No
F24	Frequency high/low limit select	0 (NO),1 (YES)	0 (No)	No
F25 [3]	Frequency high limit	0~400Hz	60.00	No
F26	Frequency low limit	0.1~400Hz	0.50	No

1) Only displayed when F4 is set to 1 (DC brake to stop).
2) If H40 is set to 3 (Sensorless vector), Max. frequency is settable up to 300Hz.
3) Only displayed when F24 (Frequency high/low limit select) is set to 1.

Function List

Function group 1

LED display	Parameter name	Description	Factory default	Adj. during run
F27	Torque Boost select	0 (Manual torque boost), 1 (Auto torque boost)	0	No
F28	Torque boost in forward direction	0~15%	5	No
F29	Torque boost in reverse direction		5	No
F30	V/F pattern	0 (Linear), 1 (Square), 2 (User V/F)	0	No
F31 [1]	User V/F frequency 1	0~400Hz	15.00	No
F32	User V/F voltage 1	0~100%	25	No
F33	User V/F frequency 2	0~400Hz	30.00	No
F34	User V/F voltage 2	0~100%	50	No
F35	User V/F frequency 3	0~400Hz	45.00	No
F36	User V/F voltage 3	0~100%	75	No
F37	User V/F frequency 4	0~400Hz	60.00	No
F38	User V/F voltage 4	0~100%	100	No
F39	Output voltage adjustment	40~110%	100	No
F40	Energy-saving level	0~30%	0	Yes
F50	Electronic thermal select	0 (NO), 1 (YES)	0	Yes
F51 [2]	Electronic thermal level for 1 minute	50~200%	150	Yes
F52	Electronic thermal level for continuous	50~200%	100	Yes
F53	Motor cooling method	0 (Self-cooling), 1 (Post-cooling)	0	Yes
F54	Overload warning level	30~150%	150	Yes
F55	Overload warning time	0~30sec	10	Yes
F56	Overload trip select	0 (NO), 1 (YES)	1	Yes
F57	Overload trip level	30~200%	180	Yes
F58	Overload trip time	0~60sec	60	Yes
F59	Stall prevention select	0: Stall prevention disabled 1: During Accel 2: During constant run 3: During Accel, During constant run 4: During Decel 5: During Accel, During Decel 6: During Decel, During constant run 7: During Accel, During constant run, During Decel	0	No
F60	Stall prevention level	30~150%	150	No

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

Function group 2

LED display	Parameter name	Description	Factory default	Adj. during run
H0	Jump code	0~95	1	Yes
H1	Fault history 1		nOn	–
H2	Fault history 2		nOn	–
H3	Fault history 3		nOn	–
H4	Fault history 4		nOn	–
H5	Fault history 5		nOn	–

:: Function group 2

LED display	Parameter name	Description	Factory default	Adj. during run
H6	Reset fault history	0 (No), 1 (Yes)	0 (NO)	Yes
H7	Dwell frequency	0~400Hz	5.00	No
H8	Dwell time	0~10sec	0.0	No
H10	Skip frequency select	0 (No), 1 (Yes)	0 (NO)	No
H11 [1]	Skip frequency low limit 1	0~400Hz	10Hz	No
H12	Skip frequency high limit 1	0~400Hz	15Hz	No
H13	Skip frequency low limit 2	0~400Hz	20Hz	No
H14	Skip frequency high limit 2	0~400Hz	25Hz	No
H15	Skip frequency low limit 3	0~400Hz	30Hz	No
H16	Skip frequency high limit 3	0~400Hz	35Hz	No
H17	S-Curve accel/decel start side	1~100%	40%	No
H18	S-Curve accel/decel end side	1~100%	40%	No
H19	Input/output phase loss protection select	0 (Disabled), 1 (Output phase protection), 2 (Input phase protection, 3 (Input/output phase protection)	0	Yes
H20	Power On Start select	0 (NO), 1 (YES)	0 (NO)	Yes
H21	Restart after fault reset selection	0 (NO), 1 (YES)	0 (NO)	
H22 [2]	Speed search select	0: Speed search disabled 1: Normal accel 2: Operation after fault 3: Normal accel, Operation after fault 4: Restart after instant power failure 5: Normal accel, Restart after instant power failure 6: Operation after fault, Restart after instant power failure 7: Normal accel, Operation after fault, Restart after instant power failure 8: Power On start 9: Normal accel, Power On start 10: Operation after fault, Power On start 11: Normal accel, Operation after fault, Power On start 12: Restart after instant power failure, Power On start 13: Normal accel, Restart after instant power failure, Power On start 14: Operation after fault, Restart after instant power failure, Power On start 15: Normal accel, Operation after fault, Restart after instant power failure, Power On start	0	Yes
H23	Current level during speed search	80~200%	100	Yes
H24	P gain during speed search	0~9999	100	Yes
H25	I gain during speed search	0~9999	1000	Yes
H26	Number of auto restart try	0~10	0	Yes
H27	Auto restart time	0~60sec	1sec	Yes
H30	Motor type select	0.2~7.5kW	7.5 [3]	No
H31	Number of motor poles	2~12	4	No

1) Only displayed when H10 is set to 1. # H17, H18 are used when F2, F3 are set to 1 (S-curve).
2) Normal acceleration has first priority. Even though #4 is selected along with other bits, Inverter performs Speed search #4.
3) H30 is preset based on Inverter rating.

Function List

:: Function group 2

LED display	Parameter name	Description	Factory default	Adj. during run
H32	Rated slip frequency	0~10Hz	– 1)	No
H33	Motor rated current	1.0~50A	–	No
H34	No load motor current	0.1~20A	–	No
H36	Motor efficiency	50~100%	–	No
H37	Load inertia rate	0~2	0	No
H39	Carrier frequency select	1~15kHz	3kHz	Yes
H40	Control mode select	0 (Volts/frequency control), 1 (Slip compensation control), 2 (PID feedback control), 3 (Sensorless vector control)	0	No
H41	Auto tuning	0 (NO), 1 (YES)	–	No
H42	Stator resistance (Rs)	0~14Ω	–	No
H44	Leakage inductance (Ls)	0~300.0mH	1000	Yes
H45 2)	Sensorless P gain	0~32767	100	Yes
H46	Sensorless I gain		0	No
H50 3)	PID Feedback select	0 (1: 0~20mA), 1 (V1 0~10V)		
H51	P gain for PID controller	0~999.9%	300%	Yes
H52	Integral time for PID controller (I gain)	0.1~32.0sec	1sec	Yes
H53	Differential time for PID controller (D gain)	0.1~30.0sec	0sec	Yes
H54	F gain for PID controller	0~999.9%	0%	Yes
H55	PID output frequency limit	0.1~400Hz Max. frequency	60Hz	Yes
H60	Diagnosis select	0: Diagnosis disabled 1: IGBT fault/ Ground-fault 2: Output phase short & Output open/ Ground-fault 3: Ground-fault	0	No
H70	Frequency reference for accel/decel	0 (Based on Max. frequency), 1 (Based on delta frequency)	0	No
H71	Accel/Decel time scale	0 (0.01 sec), 1 (0.1 sec), 2 (1 sec)	1 (0.1 sec)	Yes
H72	Power on display	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 7: Multi-step frequency 3 8: Output current 9: Motor rpm 10: Inverter DC link voltage 11: User display select (H73) 12: Fault display 13: Direction of motor rotation select	0	Yes
H73	Monitoring item select	0: Output voltage [V] 1: Output power [kW] 2: Torque [kgf · m]	0	Yes
H74	Gain for motor rpm display	1~1000%	100%	Yes
H75	DB resistor operating rate limit select	0: Unlimited 1: Use DB resistor for the H76 set time.	1	Yes
H76	DB resistor operating rate	0~30%	10%	Yes

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

⠿ Function group 2

LED display	Parameter name	Description				Factory default	Adj. during run
H77[1]	Cooling fan control	0 (Always ON), 1 (Keep ON when its Temp. is higher than Inverter protection limit Temp.)				0	Yes
H78	Operating method select when cooling fan malfunctions	0 (Run when cooling fan malfunctions), 1 (Stop when cooling fan malfunctions)				0	Yes
H79	S/W version	0~10.0				1.0	No
H81	2nd motor Accel time	0~6000sec				5.0	Yes
H82	2nd motor Decel time					10.0	Yes
H83	2nd motor base frequency	30~400Hz				60.00	No
H84	2nd motor V/F pattern	0 (Linear),1 (Square), 2 (User V/F)				0	No
H85	2nd motor forward torque boost	0~15%				5	No
H86	2nd motor reverse torque boost					5	No
H87	2nd motor stall prevention level	30~150%				150%	No
H88	2nd motor Electronic thermal level for 1 min	50~200%				150%	Yes
H89	2nd motor Electronic thermal level for continuous					100%	Yes
H90	2nd motor rated current	0.1~50A				26.3	No
H91	Parameter read	0~1				0	No
H92	Parameter write	0~1				0	No
H93	Parameter initialize	0~5				0	No
H94	Password register	0~FFFF				0	Yes
H95	Parameter lock	0~FFFF	UL (Unlock)	Parameter change enable		0	Yes
			L (Lock)	Parameter change disable			

1) Exception SV004iG5A-2/SV004iG5A-4 adopt self-cooling type, so this code is hidden.

⠿ Input/output group

LED display	Parameter name	Description	Factory default	Adj. during run
I0	Jump code	0~63	1	Yes
I1	Filter time constant for NV input	0~9999	10	Yes
I2	NV input Min. voltage	0~-10V	0.00	Yes
I3	Frequency corresponding to I2	0~400Hz	0.00	Yes
I4	NV input Max. voltage	0~-10V	10.0	Yes
I5	Frequency corresponding to I4	0~400Hz	60.00	Yes
I6	Filter time constant for V1 input	0~9999	10	Yes
I7	V1 input Min. voltage	0~10V	0	Yes
I8	Frequency corresponding to I7	0~400Hz	0.00	Yes
I9	V1 input Max. voltage	0~10V	10	Yes
I10	Frequency corresponding to I9	0~400Hz	60.00	Yes
I11	Filter time constant for I input	0~9999	10	Yes
I12	I input Min. current	0~20mA	4.00	Yes
I13	Frequency corresponding to I12	0~400Hz	0.00	Yes
I14	I input Max. current	0~20mA	20.00	Yes
I15	Frequency corresponding to I14	0~400Hz	60.00	Yes

Function List

⁛ Input/output group

LED display	Parameter name	Description	Factory default	Adj. during run
I16	Criteria for analog input signal loss	0: Disabled 1: activated below half of set value. 2: activated below set value.	0	Yes
I17	Multi-function input terminal P1 define	0: Forward run command 1: Reverse run command 2: Emergency stop trip	0	Yes
I18	Multi-function input terminal P2 define	3: Reset when a fault occurs {RST} 4: Jog operation command 5: Multi-step freq - Low	1	Yes
I19	Multi-function input terminal P3 define	6: Multi-step freq - Mid 7: Multi-step freq - High 8: Multi Accel/Decel - Low	2	Yes
I20	Multi-function input terminal P4 define	9: Multi Accel/Decel - Mid 10: Multi Accel/Decel - High 11: DC brake during stop	3	Yes
I21	Multi-function input terminal P5 define	12: 2nd motor select 13: -Reserved- 14: -Reserved- 15: Up-down Frequency increase (UP)command	4	Yes
I22	Multi-function input terminal P6 define	16: Up-down Frequency decrease command (DOWN) 17: 3-wire operation 18: External trip A contact (EtA)	5	Yes
I23	Multi-function input terminal P7 define	19: External trip B contact (EtB) 20: - 21: Exchange between PID operation and V/F operation	6	Yes
I24	Multi-function input terminal P8 define	22: Exchange between option and Inverter 23: Analog hold 24: Accel/Decel disable	7	Yes

LED display	Parameter name	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0	Factory default	Adj. during run
I25	Input terminal status display	P8	P7	P6	P5	P4	P3	P2	P1	-	-

LED display	Parameter name	BIT1		BIT0		Factory default	Adj. during run
I26	Output terminal status display	3AC		MO		-	-

LED display	Parameter name	Description	Factory default	Adj. during run
I27	Filtering time constant for multi-function input terminal	2~50	15	Yes
I30	Multi-step frequency 4	0~400Hz	30.00	Yes
I31	Multi-step frequency 5		25.00	Yes
I32	Multi-step frequency 6		20.00	Yes
I33	Multi-step frequency 7		15.00	Yes
I34	Multi-Accel time 1	0~6000sec	3.0	Yes
I35	Multi-Decel time 1		3.0	Yes
I36	Multi-Accel time 2		4.0	Yes
I37	Multi-Decel time 2		4.0	Yes
I38	Multi-Accel time 3		5.0	Yes
I39	Multi-Decel time 3		5.0	Yes
I40	Multi-Accel time 4		6.0	Yes
I41	Multi-Decel time 4		6.0	Yes
I42	Multi-Accel time 5		7.0	Yes
I43	Multi-Decel time 5		7.0	Yes
I44	Multi-Accel time 6		8.0	Yes
I45	Multi-Decel time 6		8.0	Yes
I46	Multi-Accel time 7		9.0	Yes
I47	Multi-Decel time 7		9.0	Yes
I50	Analog output item select	0 (Output freq.), 1 (Output current) 2 (Output voltage), 3 (Inverter DC link voltage)	-	Yes

:: **Input/output group**

LED display	Parameter name	Description	Factory default	Adj. during run
I51	Analog output level adjustment	10~200%	100	Yes
I52	Frequency detection level	0~400Hz	30.00	Yes
I53	Frequency detection bandwidth		10.00	Yes
I54	Multi-function output terminal select	0: FDT-1	12	Yes
I55	Fault relay select	1: FDT-2 2: FDT-3 3: FDT-4 4: FDT-5 5: Overload (OL) 6: Inverter overload (IOL) 7: Motor stall (STALL) 8: Over voltage trip (OV) 9: Low voltage trip (LV) 10: Inverter overheat (OH) 11: Command loss 12: During run 13: During stop 14: During constant run 15: During speed searching 16: Wait time for run signal input 17: Fault relay select 18: Warning for cooling fan trip	17	Yes
I56	Fault relay output	0: - 1: When the low voltage trip occurs 2: When the trip other than low voltage trip occurs 3: When the low voltage trip occurs, When the trip other than low voltage trip occurs 4: When setting the H26 (Number of auto restart try) 5: When the low voltage trip occurs, When setting the H26 (Number of auto restart try) 6: When the trip other than low voltage trip occurs, When setting the H26 (Number of auto restart try) 7: When the low voltage trip occurs, When the trip other than low voltage trip occurs, When setting the H26 (Number of auto restart try)	2	Yes
I57	Output terminal select when communication error occurs	0: - 1: Multi-function output terminal 2: Multi-function relay 3: Multi-function output terminal, Multi-function relay	0	Yes
I59	Communication protocol select	0 (Modbus RTU), 1 (LS BUS)	0	No
I60	Inverter number	1~32	1	Yes
I61	Baud rate	0: 1200bps 1: 2400bps 2: 4800bps 3: 9600bps 4: 19200bps	3	Yes
I62	Drive mode select after loss of frequency command	0: Continuous operation at the frequency before its command is lost. 1: Free run stop (Coast to stop) 2: Decel to stop	0	Yes
I63	Wait time after loss of frequency command	0.1~12sec	1.0	Yes
I64	Communication time setting	2~100msec	5	Yes

Protective Functions

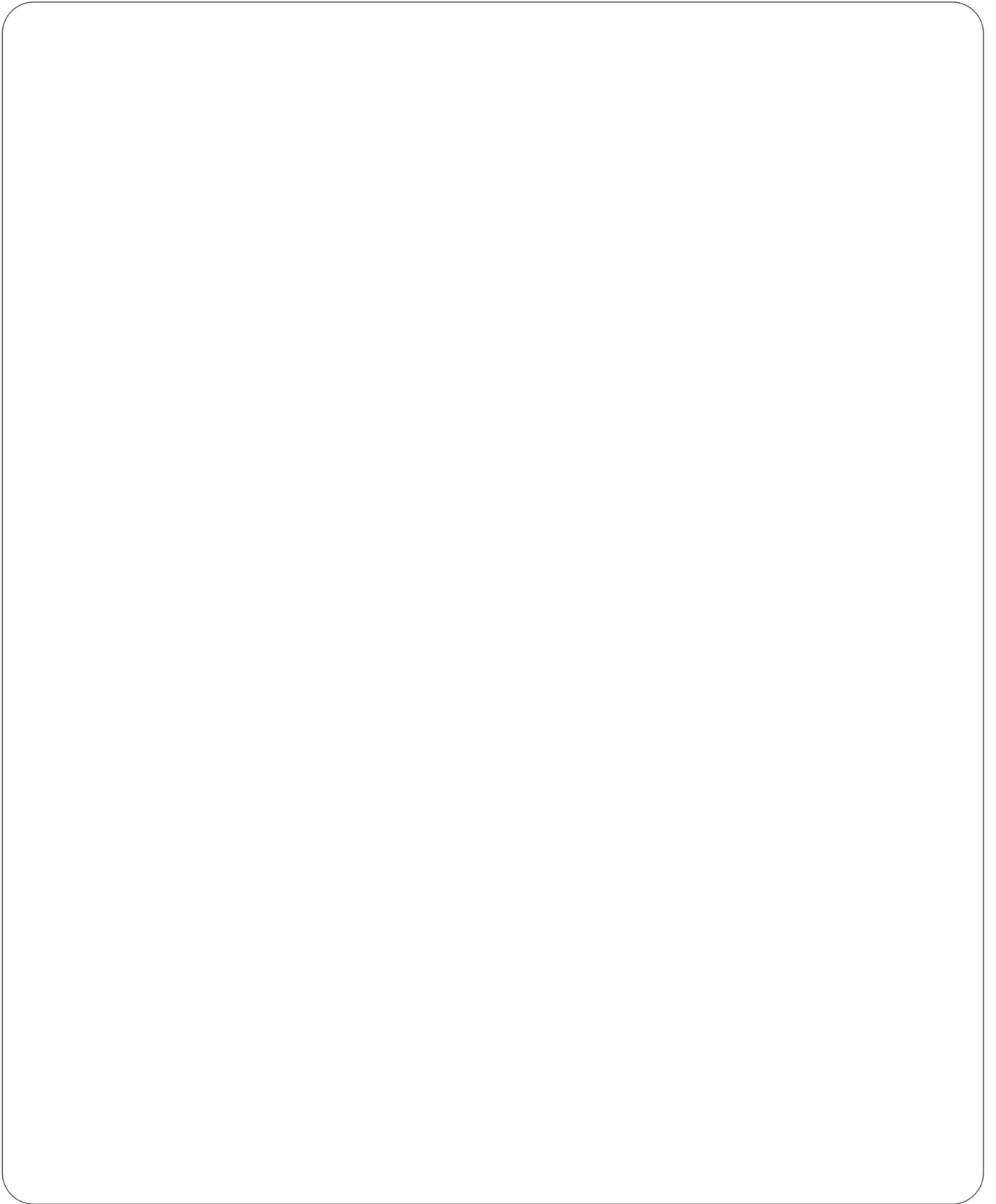| Keypad display	Protective functions	Descriptions
OCt	**Overcurrent**	The inverter turns off its output when the output current of the inverter flows more than 200% of the inverter rated current.
GFt	**Ground fault current**	The inverter turns off its output when a ground fault occurs and the ground fault current is more than the internal setting value of the inverter.
IOL	**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).
OLt	**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).
OHt	**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.
POt	**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.
Out	**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.
EtH	**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.
COL	**Input phase loss**	Inverter output is blocked when one of R, S, T is open or the electrolytic capacitor needs to be replaced.
FLtL	**Self-diagnostic malfunction**	Displayed when IGBT damage, output phase short, output phase ground fault or output phase open occurs.
EEP	**Parameter save error**	Displayed when user-setting parameters fails to be entered into memory.
HWt	**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.
rErr	**Remote keypad communication error**	Displayed when the inverter and the remote keypad do not communicate with each other. It does not stop inverter operation.
COM	**Keypad error**	Displayed after the inverter resets the keypad when a keypad error occurs and this ....
FAn	**Cooling fan fault**	Displayed when a fault condition occurs in the inverter cooling fan.
ESt	**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.
EtA	**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.
Etb	**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.
..L	**Operating method when the frequency command is lost**	When inverter operation is set via analog input (0-10V or 0-20mA input) or option (RS-485) and no signal is applied, operation is done according to the method set in I62 (Operating method when the frequency reference is lost).

Fault Remedy

Keypad display	Cause	Remedy
	Caution: When an overcurrent fault occurs, operation must be started after the cause is removed to avoid damage to IGBT inside the inverter.	
`OCt` 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.
`GFt` Ground fault current	Ground fault has occurred at the output wiring of the inverter. The insulation of the motor is damaged due to heat.	→ Check the wiring of the output terminal. → Replace the motor.
`IOL` Inverter overload	Load is greater than the inverter rating.	→ Upgrade the capacity of motor and inverter or reduce the load weight.
`OLt` Overload trip	Torque boost scale is set too large.	→ Reduce torque boost scale.
`OHt` 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.
`POt` 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.
`FAn` 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.
`Out` 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.
`EtH` 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.
`EtA` External fault A contact input	The terminal set to "18 (External fault- A)" or "19 (External fault-B)" in I20-I24 in I/O group is ON.	→ Eliminate the cause of fault at circuit connected to external fault terminal or cause of external fault input.
`Etb` External fault B contact input		
`..L` 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.
`rErr` Remote keypad communication error	Communication error between inverter keypad and remote keypad.	→ Check for connection of communication line and connector.
`EEP` `HWt` `Err` `COM`	- EEP: Parameter save error - HWT: Hardware fault - Err: Communication Error - COM: Keypad error	→ Contact your LSIS sales distributor.

iG5A

Memo

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Safety Instructions

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

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