

VFD 2.2KW 3/3PH LS

Model: SV022iG5A-4



(IG5 SPECIFICATIONS)

230V Class (0.5~5.4HP)

Inverter Type (SVxxxiG5-x)		004-1	008-1	015-1	004-2	008-2	015-2	022-2	037-2	040-2
Motor Rating ¹	HP	0.5	1	2	0.5	1	2	3	5	5.4
	kW	0.37	0.75	1.5	0.37	0.75	1.5	2.2	3.7	4.0
Output Ratings	Capacity ² [kVA]	1.1	1.9	3.0	1.1	1.9	3.0	4.5	6.1	6.5
	FLA [A]	3	5	8	3	5	8	12	16	17
	Frequency	0.1 ~ 400 Hz								
	Voltage	200 ~ 230 V ³								
Input Ratings	Voltage	1 Phase 200 ~ 230 V (± 10 %)			3 Phase 200 ~ 230 V (± 10 %)					
	Frequency	50 ~ 60 Hz (±5 %)								
Dynamic Braking	Braking Circuit	On Board								
	Average Braking Torque	20 % (Optional External DB Resistor: 100%, 150%)								
	Max. Continuous Braking Time	15 seconds								
	Duty	0 ~ 30 % ED								
Weight [lbs]		2.65	3.97	4.63	2.65	2.65	3.97	4.63	4.85	4.85

460V Class (0.5~ 5.4HP)

Inverter Type (SVxxxiG5-x)		004-4	008-4	015-4	022-4	037-4	040-4
Motor Rating ¹	HP	0.5	1	2	3	5	5.4
	kW	0.37	0.75	1.5	2.2	3.7	4.0
Output Ratings	Capacity ² [kVA]	1.1	1.9	3.0	4.5	6.1	6.5
	FLA [A]	1.5	2.5	4	6	8	9
	Frequency	0.1 ~ 400 Hz					
	Voltage	380 ~ 460 V ³					
Input Ratings	Voltage	3 Phase, 380 ~ 460 V (± 10 %)					
	Frequency	50 ~ 60 Hz (±5 %)					
Dynamic Braking	Braking Circuit	On Board					
	Average Braking Torque	20 % (Optional External DB Resistor: 100%, 150%)					
	Max. Continuous Braking Time	15 seconds					
	Duty	0 ~ 30 % ED					
Weight [lbs]		3.75	3.75	3.97	4.63	4.85	4.85

¹ Indicates the maximum applicable capacity when using a 4 pole motor.

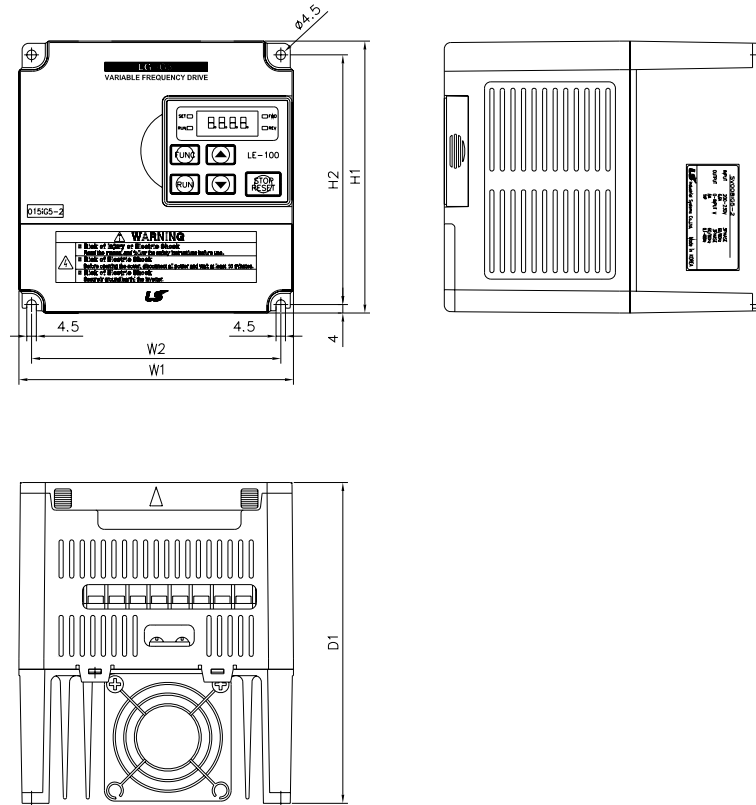
² Rated capacity ($\sqrt{3} \cdot V \cdot I$) is based on 220V for 200V class and 440V for 400V class.

³ Maximum output voltage will not be greater than input voltage. Output voltage less than input voltage may be programmed.

CONTROL	Control Method		V/F Control	
	Frequency Setting Resolution		Digital Reference: 0.01 Hz (Below 100 Hz), 0.1 Hz (Over 100 Hz) Analog Reference: 0.03 Hz / 50 Hz	
	Frequency Accuracy		Digital: 0.01 % of Max. Output Frequency, Analog: 0.1 % of Max. Output Frequency	
	V/F Ratio		Linear, Square Patter, User V/F	
	Overload Capacity		150 % of Rated Current for 1 Min. (Characteristic is inversely Proportional to Time)	
	Torque Boost		Manual Torque Boost (0 ~ 15 %), Auto Torque Boost	
OPERATION	Input Signal	Operation Method		Key / Terminal / Communication Operation
		Frequency Setting		Analog: 0 ~ 10V / 4 ~ 20 mA Digital: Keypad
		Start Signal		Forward, Reverse
		Multi-Step Speed		Up to 8 Speeds Can Be Set (Use Multi-Function Terminal)
		Multi Step Accel/Decel Time		0 ~ 9,999 sec, Up to 4 Types Can Be Set and Selected for Each Setting (Use Multi-Function Terminal), Accel/Decel Pattern: Linear Pattern, U Pattern, S Pattern
		Emergency Stop		Interrupts the Output of Inverter
		Jog		Jog Operation
		Fault Reset		Reset Faults When Protective Function is Active
	Output Signal	Operating Status		Frequency Level Detection, Overload Alarm, Stalling, Over Voltage, Under Voltage, Inverter Overheating, Running, Stop, Constant Speed, Speed Searching
		Fault Output		Contact Output (A, C, B) – AC250V 1A, DC30V 1A
		Indicator		Choose One From Output Frequency, Output Current, Output Voltage, DC Voltage (Output Voltage: 0 ~ 10V)
	Operation Function		DC Braking, Frequency Limit, Frequency Jump, Second Function, Slip Compensation, Reverse Rotation Prevention, Auto Restart, PID Control	
Protection	Inverter Trip		Over Voltage, Under Voltage, Over Current, Inverter Overheating, Motor Over heating, Input/Output Phase Loss, Overload Protection, Communication Error, Loss of Speed Command, Hardware Fault	
	Inverter Alarm		Stall Prevention, Overload Alarm	
	Momentary Power Loss		Less than 15 msec: Continuous Operation, More than 15 msec: Auto Restart (Programmable)	
Display	Keypad	Operation Information		Output Frequency, Output Current, Output Voltage, Frequency Value Setting, Operating Speed, DC Voltage
		Trip Information		Indicates Fault when Protection Function Activated, Memorizes Up to 5 Faults
Environment	Ambient Temperature		-10 °C ~ 40 °C (14 °F ~ 104 °F), <i>CE Certification: 41 °F ~ 104 °F (5 °C ~ 40 °C)</i>	
	Storage Temperature		-20 °C ~ 65 °C (-4 °F ~ 149 °F)	
	Ambient Humidity		Less Than 90 % RH Max. (Non-Condensing), <i>CE Certification: 5 ~85% (Non-Condensing)</i>	
	Altitude / Vibration		Below 1,000 m · Below 5.9m/sec ² (=0.6g)	
	Application Site		No Corrosive Gas, Combustible Gas, Oil Mist, or Dust	
	Atmospheric Pressure		70 ~ 106kPa	
Cooling Method			Forced Air Cooling ⁴	

⁴ 'Self-cooling' for model SV004iG5-4, SV008iG5-4.

Dimensions



Unit: mm (inch)

Inverter	HP	W1	W2	H1	H2	D1
SV004iG5-1	0.5	100 (3.94)	88 (3.46)	128 (5.04)	117.5 (4.63)	130.9 (5.15)
SV008iG5-1	1	130 (5.12)	118 (4.65)	128 (5.04)	117.5 (4.63)	152.9 (6.02)
SV015iG5-1	2	150 (5.90)	138 (5.43)	128 (5.04)	117.5 (4.63)	155.0 (6.10)
SV004iG5-2	0.5	100 (3.94)	88 (3.46)	128 (5.04)	117.5 (4.63)	130.9 (5.15)
SV008iG5-2	1	100 (3.94)	88 (3.46)	128 (5.04)	117.5 (4.63)	130.9 (5.15)
SV015iG5-2	2	130 (5.12)	118 (4.65)	128 (5.04)	117.5 (4.63)	152.9 (6.02)
SV022iG5-2	3	150 (5.90)	138 (5.43)	128 (5.04)	117.5 (4.63)	155.0 (6.10)
SV037iG5-2	5.0	150 (5.90)	138 (5.43)	128 (5.04)	117.5 (4.63)	155.0 (6.10)
SV040iG5-2	5.4	150 (5.90)	138 (5.43)	128 (5.04)	117.5 (4.63)	155.0 (6.10)
SV004iG5-4	0.5	130 (5.12)	118 (4.65)	128 (5.04)	117.5 (4.63)	152.9 (6.02)
SV008iG5-4	1	130 (5.12)	118 (4.65)	128 (5.04)	117.5 (4.63)	152.9 (6.02)
SV015iG5-4	2	130 (5.12)	118 (4.65)	128 (5.04)	117.5 (4.63)	152.9 (6.02)
SV022iG5-4	3	150 (5.90)	138 (5.43)	128 (5.04)	117.5 (4.63)	155.0 (6.10)
SV037iG5-4	5.0	150 (5.90)	138 (5.43)	128 (5.04)	117.5 (4.63)	155.0 (6.10)
SV040iG5-4	5.4	150 (5.90)	138 (5.43)	128 (5.04)	117.5 (4.63)	155.0 (6.10)

Made in Korea