

iG5A

Variable Frequency Drive / Inverter

Powerful & compact sensorless vector control inverter

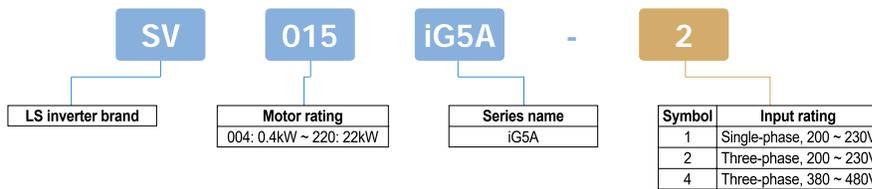
1 phase 0.4 - 1.5kW, 200V

3 phase 0.4 - 22kW, 200/400V

- Selectable V/f, sensorless vector control
- Motor parameter auto-tuning
- Powerful torque at overall speed range
- 0.1 - 400Hz frequency output
- 1 - 15kHz carrier frequency
- -15% - +10% input voltage margin
- -10 - 50°C Operating temperature
- Ground fault protection during operation
- IP20 enclosure, NEMA1(Optional)
- Selectable manual/automatic torque boost
- Selectable PNP/NPN input signal
- -10 - +10 volt analog input
- Built-in braking circuit
- Enhanced process PID control
- Built-in LS Bus/Modbus-RTU communication
- Cooling fan on/off control
- Remote control using external keypad * RJ45 cable(Optional)
- Upgraded functions : Sleep & Wake-up
KEB (Kinetic Energy Buffering) protection
Low leakage PWM
- Monitoring & commissioning software (DriveView)



Inverter Model Number



General specification

Model number: SV	iG5A-1	004	008	015
Motor rating	[HP]	0.5	1	2
	[kW]	0.4	0.75	1.5
Output rating	Capacity [kVA]	0.95	1.9	3.0
	Current [A]	2.5	5	8
	Voltage [V]	Three-Phase 200 ~ 230V		
	Frequency [Hz]	0.1 ~ 400Hz		
Input rating	Voltage [V]	Single-Phase 200 ~ 230V (+10%, -15%)		
	Frequency [Hz]	50 ~ 60Hz (± 5%)		
	Weight [kg]	0.77	1.12	1.84

Model number: SV	iG5A-2	004	008	015	022	037	040	055	075	110	150	185	220
Motor rating	[HP]	0.5	1	2	3	5	5.4	7.5	10	15	20	25	30
	[kW]	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22
Output rating	Capacity [kVA]	0.95	1.9	3	4.5	6.1	6.5	9.1	12.2	17.5	22.9	28.2	33.5
	Current [A]	2.5	5	8	12	16	17	24	32	46	60	74	88
	Voltage [V]	Three-Phase 200 ~ 230V											
	Frequency [Hz]	0.1 ~ 400Hz											
Input rating	Voltage [V]	Three-Phase 200 ~ 230V (+10%, -15%)											
	Frequency [Hz]	50 ~ 60Hz (± 5%)											
	Weight [kg]	0.76	0.77	1.12	1.84	1.89	1.89	3.66	3.66	9.00	9.00	13.3	13.3

Model number: SV	iG5A-4	004	008	015	022	037	040	055	075	110	150	185	220
Motor rating	[HP]	0.5	1	2	3	5	5.4	7.5	10	15	20	25	30
	[kW]	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22
Output rating	Capacity [kVA]	0.95	1.9	3	4.5	6.1	6.5	9.1	12.2	18.3	22.9	29.7	34.3
	Current [A]	1.25	2.5	4	6	8	9	12	16	24	30	39	45
	Voltage [V]	Three-Phase 380 ~ 480V											
	Frequency [Hz]	0.1 ~ 400Hz											
Input rating	Voltage [V]	Three-Phase 380 ~ 480V (+10%, -15%)											
	Frequency [Hz]	50 ~ 60Hz (± 5%)											
	Weight [kg]	0.76	0.77	1.12	1.84	1.89	1.89	3.66	3.66	9.00	9.00	13.3	13.3

Control Spec	Control method	Sensorless vector, V/f
	Speed reference resolution	Digital command: 0.01Hz / Analog reference: 0.06Hz (Max freq., 60Hz)
	Frequency accuracy	Digital command: 0.01% of Max output freq. / Analog signal command of 0.1% of Max output freq.
	V/f curve	Linear, Squared, User custom V/f
	Overload capacity	150% for 1 minute
	Torque boost	Auto & manual torque boost
	Keypad Display	4 digit, 7 segment LED
	Operation method	Keypad / Terminal / Communication operation
	Frequency setting	Analog: 0 to 10V / -10 to 10V / 0 to 20mA / Potentiometer / Digital: Keypad/ Modbus
	Operation function	PID control / Up-Down operation / 3-Wire operation
Input signal	Multi-function terminal (P1 ~ P8)	PNP / NPN selectable 8 points (programmable)
Output signal	Multi-function relay	Fault output & inverter status output (N.O., N.C.) Less than AC 250V, 0.3A / Less than DC 30V 1A
	Multi-function open collector	DC24V (less than 50mA)
	Analog output	0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable
Protection	Inverter trip	Over voltage / Low voltage / Over current / Ground fault detection / Inverter overload / Overload trip / Inverter overheat / Output phase loss / Overload protection / Frequency command loss / Hardware fault/ Brake fault
	Inverter alarm	Stall prevention, Overload
Enclosure		IP20, NEMA1 (Optional)
Others		Built-in Dynamic brake circuit, Modbus-RTU, LS Bus, Remote cable(2M/3M/5M) plus external keypad