

iG5A

Variable Frequency Drive

Powerful & compact sensorless vector control VFD

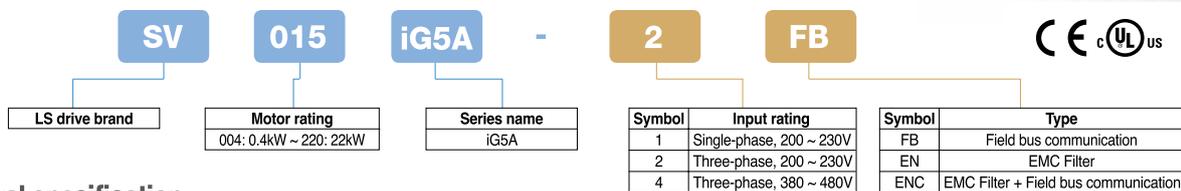
1 phase 0.4~1.5kW(0.5~2HP), 200~230V
 3 phase 0.4~22kW(0.5~30HP), 200~230V
 3 phase 0.4~22kW(0.5~30HP), 380~480V

- 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
- Fault history: Last 5 faults
- 0~10Vdc / -10~+10Vdc analog input
- IP20 enclosure, UL Type 1 (Option)
- Selectable manual/automatic torque boost
- Selectable PNP/NPN input signal
- 2nd motor control and parameter setting

- Built-in Dynamic braking transistor as standard
- Enhanced process PID control
- Built-in RS485 (LS Bus / Modbus RTU) communication
- Cooling fan On/Off control & Easy change
- Remote control using external keypad * RJ45 cable(Optional)
- Upgraded functions: Sleep & Wake-up (Energy savings)
 KEB (Kinetic Energy Buffering) protection
 Low leakage PWM algorithm
- Monitoring & commissioning PC based software tool (Drive View)
- Footprint EMC Filter (Option)
- Communication options
 - DeviceNet, EtherNet, Profibus-DP, CANOpen



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
Input rating	Voltage [V]	Three-phase 200 ~ 230V		
	Frequency [Hz]	0.1 ~ 400Hz		
	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
Input rating	Voltage [V]	Three-phase 200 ~ 230V											
	Frequency [Hz]	0.1 ~ 400Hz											
	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
Input rating	Voltage [V]	Three-phase 380 ~ 480V											
	Frequency [Hz]	0.1 ~ 400Hz											
	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	V/f, Slip compensation, Sensorless vector
	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
Operation	Overload capacity	150% for 1 minute
	Torque boost	Auto & manual torque boost
	Keypad display	4 digit, 7 segment LED
Input signal	Operation method	Keypad / Terminal / Communication
	Frequency setting	Analog: 0 to 10V / -10 to 10V / 0 to 20mA / Digital: Keypad
	Operation function	PID control / Up-Down operation / 3-Wire operation
Output signal	Multi-function terminal (P1 ~ P8)	PNP / NPN selectable 8 points (programmable)
	Multi-function relay	Fault output & drive status output (N.O., N.C.) Less than AC250V, 0.3A / Less than DC 30V 1A
	Multi-function open collector	DC24V (less than 50mA)
Protection	Analog output	0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable
	Drive trip	Over voltage / Low voltage / Over current / Over Current 2 / Ground fault / Drive overheat / Output phase open / Drive overload / Overload trip / Communication error / Frequency command loss / Hardware fault / Fan fault / Brake error / etc.
Enclosure	Drive alarm	Stall prevention, Overload
	Option	IP20, NEMA1 (Optional)
Others	Cable, conduit kit	Remote cable(2M/3M/5M) plus external keypad, Conduit kit for NEMA 1
	Communication	DeviceNet, EtherNet, CANOpen, Profibus-DP
		Built-in Dynamic braking transistor, Built-in RS485(LS Bus / Modbus RTU)