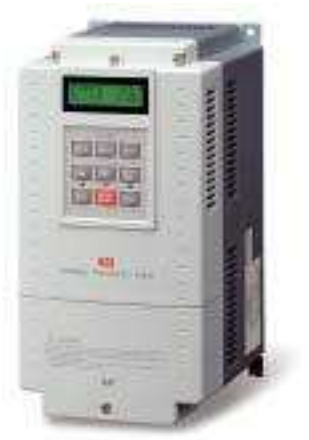
iS5

Variable Frequency Drive / Inverter

Precise vector control standard inverter

3 phase 0.75 - 55kW, 200V

3 phase 0.75 - 75kW, 400V



- Selectable V/f, sensored vector control(Optional)
- Full vector, 150% torque in overall range (continuous torque & speed control)
- Motor parameter auto-tuning
- 1 ~ 15kHz carrier frequency
- Auto speed search
- Built-in process PID control
- Optional multi-motor control (up to 4)
- 32 characters LCD & 7-segment display keypad
- Parameter upload & download (LCD Loader only)
- Extendable I/O sub-boards(Optional)
- Optional communication boards: LS Bus, ModBus, ProfiBus-DP, DeviceNet, Fnet
- Built-in braking circuit (up to 7.5kW)
- Built-in keypad (over 30kW)
- Monitoring & commissioning software (DriveView)

Inverter Model Number

SV | 008 | iS5 | - | 2 | N | O | , | 380V

LS inverter brand

Motor rating
008: 0.75kW ~ 750: 75kW

Series name
iS5

Symbol	Input rating
2	Three-phase, 200 ~ 230V
4	Three-phase, 380 ~ 480V

Symbol	Loader
None	Loader
N	Non Loader

Symbol	UL certification
O	Open type
E	Enclosed type 1

Symbol	Rated voltage
None	200~230V or 380~480V
****	380V, 440V, 460V, 480V

General specification

Model number: SV	iS5-2		008	015	022	037	055	075	110	150	185	220	300	370	450	550
Motor rating		[HP]	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75
		[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55
Output rating	Capacity	[kVA]	1.9	3	4.5	6.1	9.1	12.2	17.5	22.9	28.5	33.5	46	55	68	84
	Current	[A]	5	8	12	16	24	32	46	60	74	88	122	146	180	220
	Voltage	[V]	Three-Phase 200 ~ 230V													
	Frequency	[Hz]	0.1 ~ 400Hz (Sensorless vector control: ~ 300Hz, Sensored vector control: 0 ~ 120Hz)													
Input rating	Voltage	[V]	Three-Phase 200 ~ 230V (± 10%)													
	Frequency	[Hz]	50 ~ 60Hz (± 5%)													
	Weight	[kg]	4.6	4.6	4.8	4.9	7.5	7.7	13.8	14.3	19.4	20.0	42.0	42.0	61	61

Model number: SV	iS5-4		008	015	022	037	055	075	110	150	185	220	300	370	450	550	750
Motor rating		[HP]	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100
		[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75
Output rating	Capacity	[kVA]	1.9	3	4.5	6.1	9.1	12.2	17.5	22.9	29.7	34.3	45	56	68	82	100
	Current	[A]	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152
	Voltage	[V]	Three-Phase 380 ~ 480V										380V, 440V, 460V, 480V				
	Frequency	[Hz]	0.1 ~ 400Hz														
Input rating	Voltage	[V]	Three-Phase 380 ~ 480V (± 10%)										380V, 440V, 460V, 480V				
	Frequency	[Hz]	50 ~ 60Hz (± 5%)														
	Weight	[kg]	4.7	4.7	4.8	4.9	7.7	7.7	13.9	14.4	20	20	45	45	63	63	68

Control Spec	Control method	Sensorless vector, Sensored vector, V/f
	Speed reference resolution	Digital command: 0.01Hz (less than 100Hz),0.1Hz (greater than 100Hz) / Analog reference: 0.03Hz (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, 200% for 0.5 second
	Torque boost	Auto & manual(0 ~ 15%) torque boost
	Keypad Display	LCD keypad / 4 digit, 7 segment LED
	Operation method	Keypad / Terminal / Communication operation
	Frequency setting	Analog: 0 to 10V / 4 to 20mA / Potentiometer / Digital: Keypad/ Modbus-RTU / Fnet / DeviceNet / Profibus
	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, Temperature sensor fault
Enclosure		IP20 (0.75~7.5kW), IP00 (11~75kW)
Option	Board, Cable	LCD KEYPAD, REMOTE CABLE(2M/3M/5M), Expansion I/O, Multi-motor control card, Encoder card
	Communication	LS Bus, Modbus-RTU, DeviceNet, Profibus-DP, Fnet
Others		Built-in Dynamic brake unit (up to 7.5kW)