



Variable Frequency Drive

LS Inverter Series

IE5 / IC5 / IG5A / IS5 / IS7 / IP5A / IV5





Take another look!

Simplicity-Precision, Flexibility-Standardization and Easy to use-Diversity are the inherent qualities of LS Variable Frequency Drives.

As an one-stop drive solution provider, LS is ready to offer its own competitive solutions into the general power transmission industry.





RoHS



Performance

* : Available soon

iV5

3Ø 200V: 2.2~37kW
3Ø 400V: 2.2~800kW



iS7

3Ø 200V: 0.75~75kW
3Ø 400V: 0.75~375kW



iS5

3Ø 200V: 0.75~55kW
3Ø 400V: 0.75~75kW



iP5A

3Ø 200V: 0.75~30kW
3Ø 400V: 0.75~450kW
3Ø 575V: 5.5~110kW



iG5A

1Ø 200V: 0.4~1.5kW
3Ø 200V: 0.4~22kW
3Ø 400V: 0.4~22kW



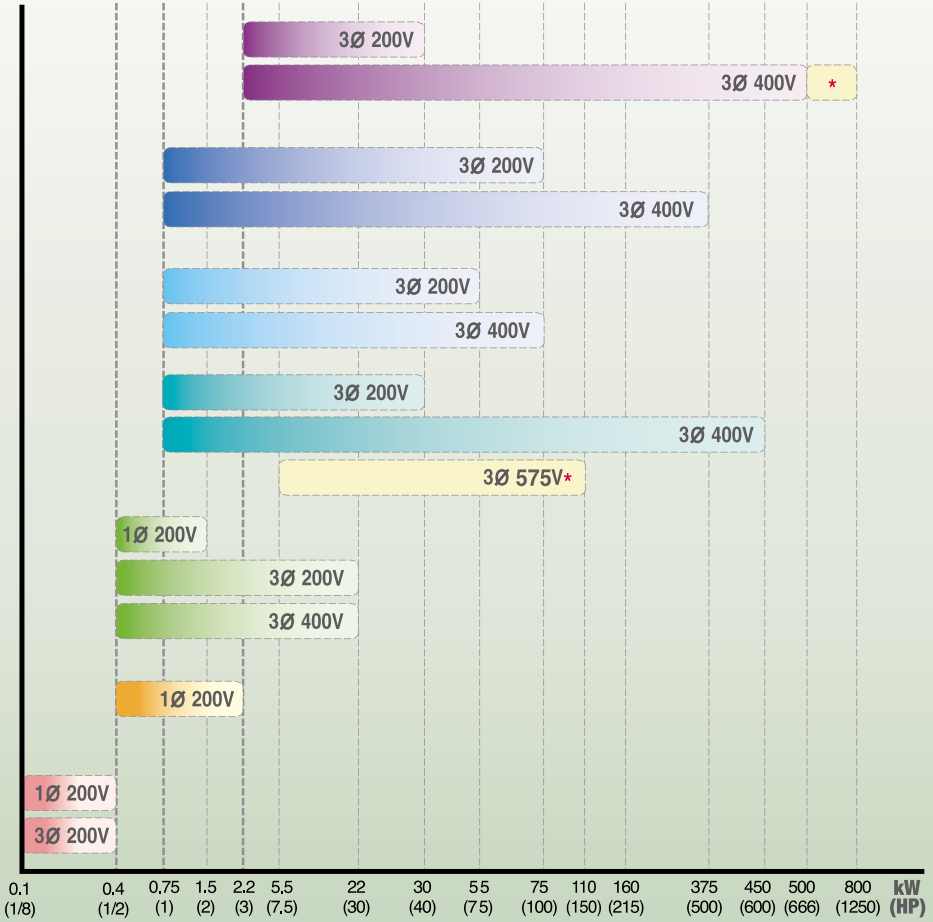
iC5

1Ø 200V: 0.4~2.2kW



iE5

1Ø 200V: 0.1~0.4kW
3Ø 200V: 0.1~0.4kW



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iE5

Variable Frequency Drive / Inverter

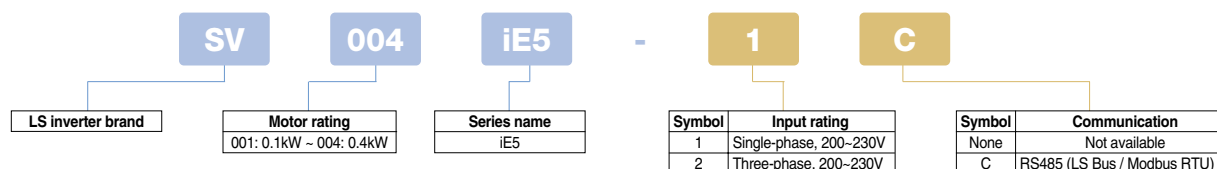
User friendly micro size slim VFD

1 phase 0.1~0.4kW(0.1~0.5HP), 200~230V
3 phase 0.1~0.4kW(0.1~0.5HP), 200~230V

- V/f control
- Compact size: 68 × 128 × 85mm (2.7 × 5 × 3.3 inch)
- 0.1 ~ 200Hz frequency output
- 1 ~ 10kHz carrier frequency
- Fault history: Last 3 faults
- IP20 enclosure
- RS485 (LS Bus / Modbus RTU) communication (Built-in option)
- DC Injection braking
- Selectable manual/automatic torque boost
- Selectable PNP/NPN input signal
- PI control
- Up-Down & 3-Wire operation
- Automatic restart after instantaneous power failure
- Built-in potentiometer
- Monitoring & commissioning PC based software tool (Drive View)
- Parameter copy unit



Model Number



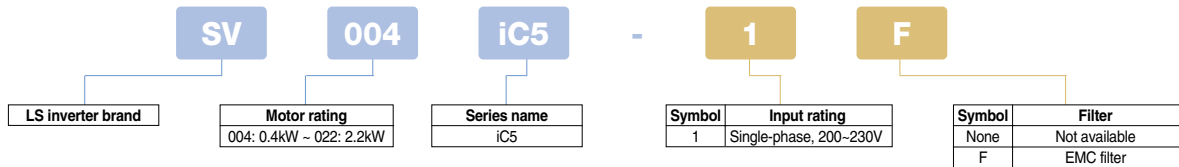
General specification

Model number: SV□□□iE5-□		001-1	002-1	004-1	001-2	002-2	004-2
Motor rating	[HP]	0.13	0.25	0.5	0.13	0.25	0.5
	[kW]	0.1	0.2	0.4	0.1	0.2	0.4
Output rating	Capacity [kVA]	0.3	0.6	0.95	0.3	0.6	1.14
	Current [A]	0.8	1.4	2.5	0.8	1.6	3.0
	Voltage [V]	Three-phase 200 ~ 230V					
	Frequency [Hz]	0.1 ~ 200Hz					
Input rating	Voltage [V]	Single-phase 200 ~ 230V (±10%)			Three-phase 200 ~ 230V (±10%)		
	Frequency [Hz]	50 ~ 60Hz (±5%)					
	Current [A]	2.0	3.5	5.5	1.2	2.0	3.5
Weight [kg]		0.44	0.46	1.68	0.43	0.45	0.67
Control Spec	Control method	V/f, Slip compensation					
	Speed reference resolution	Digital command: 0.01Hz / Analog reference: 0.1Hz (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 V/f					
	Overload capacity	150% for 1 minute					
Operation	Torque boost	Auto & manual torque boost					
	Keypad Display	4 digit, 7 segment LED					
	Operation method	Keypad / Terminal / Communication					
	Frequency setting	Analog: 0 to 10V / 0 to 20mA / Potentiometer / Digital: Keypad					
	Operation function	PI control / Up-Down operation / 3-Wire operation					
Input signal	Multi-function terminal (P1 ~ P5)	PNP / NPN selectable 5 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 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 / Inverter overload / Overload trip / Inverter overheat / Condenser overload / Output phase open / Frequency command loss / Hardware fault / etc.					
	Inverter alarm	Stall prevention					
Enclosure		IP20					
Option	Communication, copy unit	RS485(LS Bus / Modbus RTU), Parameter copy unit					



- EMC filter - class A (Built-in option)
- Selectable V/f, sensorless vector control
- Motor parameter Auto-tuning
- 150% torque at 0.5Hz
- 0.1 ~ 400Hz frequency output
- 1 ~ 15kHz carrier frequency
- 0 ~ 10Vdc analog input
- IP20 enclosure
- Selectable manual/automatic torque boost
- Built-in potentiometer
- Selectable PNP/NPN Input signal
- Fault history: Last 5 faults
- Enhanced process PID control
- Up-Down & 3-Wire operation
- Modbus RTU communication (optional)
- 8 programmable I/O
- Parameter copy unit
- Monitoring & commissioning PC based software tool (Drive View)

Model Number



General specification

Model number: SV□□□iC5-□		004-1	008-1	015-1	022-1
Motor rating	[HP]	0.5	1	2	3
	[kW]	0.4	0.75	1.5	2.2
Output rating	Capacity [kVA]	0.95	1.9	3	4.5
	Current [A]	2.5	5	8	12
Input rating	Voltage [V]	Three-phase 200 ~ 230V			
	Frequency [Hz]	0.1 ~ 400Hz			
	Voltage [V]	Single-phase 200 ~ 230V (±10%)			
	Frequency [Hz]	50 ~ 60Hz (±5%)			
Weight	Current [A]	5.5	9.2	16	21.6
	[kg]	0.87	0.89	1.79	1.85
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			
	Overload capacity	150% for 1 minute, 200% for 30 seconds			
	Torque boost	Auto & manual torque boost			
Operation	Keypad Display	3 digit, 7 segment LED			
	Operation method	Keypad / Terminal / Communication			
	Frequency setting	Analog: 0 to 10V / 4 to 20mA / Potentiometer / Digital: Keypad			
	Operation function	PID control / Up-Down operation / 3-Wire operation			
Input signal	Multi-function terminal (P1 ~ P5)	PNP / NPN selectable 5 points (programmable)			
	Output signal	Multi-function relay (N.O., N.C.) Less than AC 250V, 0.3A / Less than DC 30V 1A			
Protection	Multi-function open collector	DC24V (less than 50mA)			
	Analog output	0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable			
	Inverter trip	Over voltage / Low voltage / Over current / Ground fault / Inverter overheat / Output phase open / Inverter overload			
Enclosure	Inverter alarm	Overload trip / Communication error / Frequency command loss / Hardware fault / Fan fault / etc.			
	Option	Stall prevention, Overload			
Option	Communication, copy unit	IP20			
		Modbus RTU, Parameter copy unit			

iG5A

Variable Frequency Drive / Inverter

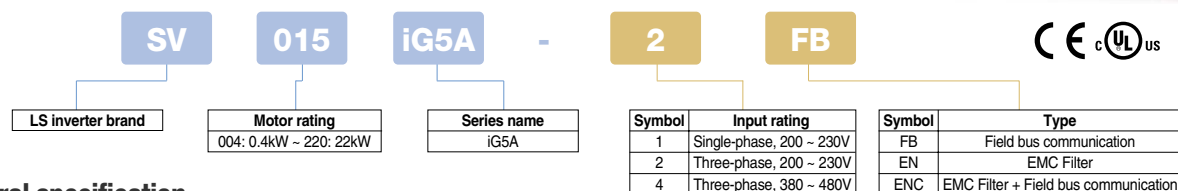
Powerful & compact sensorless vector control VFD

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
	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)
Operation	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
Input signal	Keypad Display	4 digit, 7 segment LED
	Operation method	Keypad / Terminal / Communication
	Frequency setting	Analog: 0 to 10V / -10 to 10V / 0 to 20mA / Digital: Keypad
Output signal	Operation function	PID control / Up-Down operation / 3-Wire operation
	Multi-function terminal (P1 ~ P8)	PNP / NPN selectable 8 points (programmable)
Protection	Multi-function relay	Fault output & inverter status output (N.O., N.C.) Less than AC250V, 0.3A / Less than DC 30V 1A
	Multi-function open collector	DC24V (less than 50mA)
Enclosure	Multi-function open collector	0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable
	Option	Inverter trip
Others	Communication	Inverter alarm
		Over voltage / Low voltage / Over current / Over Current 2 / Ground fault / Inverter overheat / Output phase open / Inverter overload / Overload trip / Communication error / Frequency command loss / Hardware fault / Fan fault / Brake error / etc.
		Stall prevention, Overload
		IP20, NEMA1 (Optional)
		Remote cable(2M/3M/5M) plus external keypad, Conduit kit for NEMA 1
		DeviceNet, EtherNet, CANOpen, Profibus-DP
		Built-in Dynamic braking transistor, Built-in RS485(LS Bus / Modbus RTU)

iS5

Variable Frequency Drive / Inverter

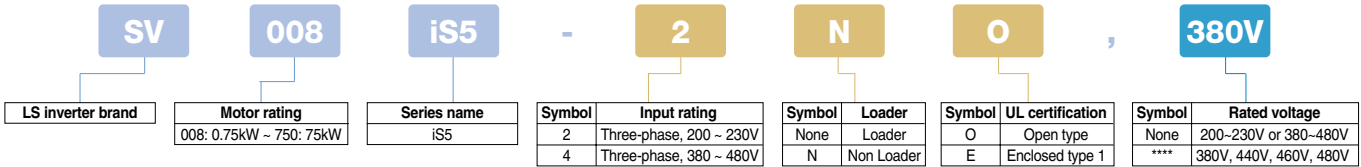
Precise vector control standard VFD

3 phase 0.75~55kW(1~75HP), 200~230V
3 phase 0.75~75kW(1~100HP), 380~480V



- Selectable V/f, Sensorless vector, Sensored vector control (Optional)
- Built-in process PID control
- Optimum acceleration & deceleration for a maximum torque
- APP parameter group for special operations:
 - Traverse, Multi Motor Control, DRAW
- Multi-function I/O terminal:
 - Input: 27 functions / Output: 21 functions
- Multi Motor Control (Up to 4 motors: Optional)
- Motor parameter Auto-tuning
- Parameter Read/Write function using a detachable LCD Keypad
- 8 Preset speeds
- Extension I/O boards (Optional): Sub-A, Sub-B, Sub-C
- Communication options:
 - Modbus RTU, Profibus-DP, DeviceNet, RS485(LS Bus), Fnet(LS PLC link)
- Built-in Dynamic braking transistor (Up to 7.5kW[10HP])
- Monitoring & commissioning PC based software tool (Drive View)

Model Number



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	
	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	
Output rating	Voltage [V]	Three-phase 200 ~ 230V														
	Frequency [Hz]	0.1 ~ 400Hz (Sensorless control: 0.1~300Hz, Sensored control: 0.1~120Hz)														
	Input rating	Three-phase 200 ~ 230V (±10%)														
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
	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
Output rating	Voltage [V]	Three-phase 380 ~ 480V														
	Frequency [Hz]	0.1 ~ 400Hz (Sensorless control: 0.1~300Hz, Sensored control: 0.1~120Hz)														
	Input rating	Three-phase 380 ~ 480V (±10%)														
Input rating	Voltage [V]	Three-phase 380 ~ 480V (±10%)														
	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														
Operation	Overload capacity	150% for 1 minute, 200% for 0.5 second														
	Torque boost	Auto & manual(0 ~ 15%) torque boost														
	Keypad Display	32 characters LCD keypad / 4 digit, 7 segment LED keypad														
	Operation method	Keypad / Terminal / Communication														
Input signal	Frequency setting	Analog: 0 to 10V / 4 to 20mA / Additional port for Sub-board(0~10V) / Digital: Keypad														
	Operation function	DC braking / Frequency limit / Frequency jump / Second function / Second Function / Slip compensation / Reverse rotation prevention / Auto restart / Inverter By-pass / Auto-Tuning / PID control														
	Sart signal	Forward / Reverse														
	Multi-step	Up to 8 speeds can be set (Use Multi-function terminal)														
Output signal	Multi-step Accel/Decel time	0~6,000 sec, Up to 8 types can be set and selected for each setting (Use Multi-function terminal)														
	Emergency stop	Accel/Decel curve : Linear, U curve, S curve														
	JOG	Interrupts the Output from Inverter														
	Auto operation	JOG operation														
Protection	Fault reset	Operates from Internal sequence by setting Multi-function terminal (5 way * 8 Step)														
	Operating status	Trip status is removed when Protection function is active														
	Inverter trip	Frequency detection level / Overload alarm / Stalling / Over voltage / Low voltage / Inverter overheat / Run / Stop / Constant speed / Inverter By-pass / Speed search / Auto-operation step / Auto-operation sequence														
	Inverter alarm	Contact output (30A, 30C, 30B) - AC250V 1A, DC30V 1A														
Enclosure	Option	Board, cable, keypad														
	Communication	Built-in Dynamic braking transistor(0.75~7.5kW[1~10HP])														
Others		IP20(0.75~7.5kW[1~10HP]), IP00(11~75kW[15~100HP]) RS485(LS Bus), Modbus RTU, DeviceNet, Profibus-DP, Fnet														

iS7

Variable Frequency Drive / Inverter

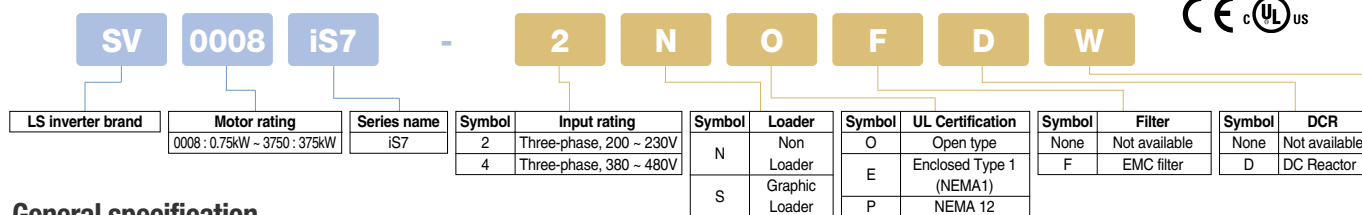
High Torque Performance and Precise VFD

3 phase 200V : 0.75~75kW(1~100HP), 200~230V
3 phase 400V : 0.75~375kW(1~500HP), 380~480V

- Constant torque / Variable torque dual rating
- Selectable V/f, V/f PG, sensorless vector, sensed vector
- 150 MIPS(million instructions per second) high speed DSP
- High performances & functions:
 - Droop control (automatic torque balance)
 - KEB (Kinetic Energy Buffering) protection
 - Ride Through (LV Trip Delay) protection
 - Under Load Trip protection
 - PMSM sensorless vector function
 - Power brake & Flux Brake function
 - Static motor parameter Auto-tuning*
- Easy to control: Easy Start Mode, User & Macro group, Multi Function Key
- 2nd motor sensorless control and parameter setting
- Available IP54 enclosure(0.75~22kW[1~30HP]) as built-in option
- Built-in RS485(LS Bus / Modbus RTU) communication
- Built-in Dynamic braking transistor (0.75~22kW[1~30HP])
- Available EMC Filter & DC Reactor as built-in option
- EMC Filter(0.75~22kW[1~30HP]) / DC Reactor(0.75~160kW[1~215HP])
- Wide graphic LCD keypad (6 different languages)
- PLC board (optional):
 - Master-K platform: 14 max. inputs & 7 max. outputs
- Extension I/O boards (Optional):
 - 11 max. inputs & 6 max outputs
- Communication boards (Optional):
 - Profibus-DP, DeviceNet, Modbus TCP, Rnet, LonWorks, CANopen
- Monitoring & commissioning PC based software tool (Drive View)



Model Number



General specification

Model number: SV□□□iS7-2□		008	015	022	037	055	075	110	150	185	220	0300	0370	0450	0550	0750	Symbol	Application
Motor rating	[HP]	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	None	Normal application
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	W	Web application
Output rating	Capacity [kVA]	1.9	3	4.5	6.1	9.1	12.2	17.5	22.9	28.5	33.5	46	57	69	84	116		
	Current (CT) [A]	5	8	12	16	24	32	46	60	74	88	116	146	180	220	288		
	Current (VT) [A]	8	12	16	24	32	46	60	74	88	124	146	180	220	288	345		
Input rating	Voltage [V]	Three-phase 200 ~ 230V																
	Frequency [Hz]	0.01 ~ 400Hz (Sensorless-1 control: 0.01~300Hz, Sensorless-2 or Sensored control: 0.01~120Hz)																
	Voltage [V]	Three-phase 200 ~ 230V (-15% ~ +10%)																
	Frequency [Hz]	50 ~ 60Hz (±5%)																
	Current (CT) [A]	8.3	12.9	18.6	24	32.9	41.4	58	69	88	96	121	154	191	233	305		
	Current (VT) [A]	7	10.6	14.8	21.8	28	42	52	60	75	107	152	190	231	302	326		

Model number: SV□□□iS7-4□		008	015	022	037	055	075	110	150	185	220	300	370	450	550	750	900	1100	1320	1600	1850	2200	2800	3150	3750			
Motor rating	[HP]	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	180	225	250	300	375	420	500			
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	220	280	315	375			
Output rating	Capacity [kVA]	1.9	3	4.5	6.1	9.1	12.2	17.5	22.9	29.7	34.3	46	57	69	84	116	139	170	201	248	286	329	416	467	557			
	Current (CT) [A]	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	370	432	547	613	731			
	Current (VT) [A]	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	370	432	547	613	731	877			
Input rating	Voltage [V]	Three-phase 380 ~ 480V																										
	Frequency [Hz]	0.01 ~ 400Hz (Sensorless-1 control: 0.01~300Hz, Sensorless-2 or Sensored control: 0.01~120Hz)																										
	Voltage [V]	Three-phase 380 ~ 480V (-15% ~ +10%)																										
	Frequency [Hz]	50 ~ 60Hz (±5%)																										
	Current (CT) [A]	4.3	7.2	10.6	15.4	21	25.8	39	44	57	57	57	69	83	113	154	195	239	286	362	404	466	605	674	798			
	Current (VT) [A]	3.5	5.3	7.3	10.8	13.8	22.5	26	33	40	52.2	90	109	123	162	195	237	282	350	403	463	590	673	796	948			

Control Spec	Control method	V/f, V/f PG, Slip compensation, Sensorless-1 vector, Sensorless-2 vector, Sensored vector
	Speed reference resolution	Digital command: 0.01Hz / Analog reference: 0.06Hz (Max freq., 60Hz)
Operation	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
Input signal	Overload capacity	CT(Heavy duty): 150% for 1 minute, VT(Normal duty): 110% for 1 minute
	Torque boost	Auto & Manual torque boost
Output signal	Keypad Display	Wide graphic LCD keypad (available 6 languages)
	Operation method	Keypad / Terminal / Communication
Protection	Frequency setting	Analog: 0 to 10V / -10 to 10V/ 0 to 20mA / Digital: Keypad
	Operation function	PID control / Up-Down operation / 3-Wire operation / DC braking / Frequency limit / Second function / Slip compensation / Reverse rotation prevention / Auto restart / Inverter By-pass / Auto-tuning / Flying star / Energy buffering / Power braking / Flux braking / Low leakage / MMC / Easy start
Enclosure	Input signal	Multi-function terminal (P1 ~ P8)
	Output signal	Multi-function relay
Option	Multi-function open collector	PNP / NPN selectable
	Analog output	8 points (programmable)
Others	Multi-function relay	Fault output & inverter status output (N.O., N.C.) Less than AC250V, 1A / Less than DC 30V 1A
	Analog output	0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable
Protection	Inverter trip	Over current / Over voltage / Low current / External trip / Ground fault / Inverter overheat / I/O phase open / Overload / Communication error / Frequency command loss / Hardware fault / Fan fault / Pre-PID fault / No motor trip / External brake trip / etc.
	Inverter alarm	Stall prevention / Overload / Light load / Encoder connection error / Keypad command loss / Speed command loss
Enclosure	Board, Cable, Keypad	IP00 (30~75kW, 200V/90~375kW, 400V), IP21 (0.75~22kW, 200V / 0.75~75kW, 400V), IP54 / NEMA12 (0.75~22kW, 200V/ 400; Optional)
	Communication	Graphic LCD keypad(IP21), Extension I/O, Isolation I/O, Encoder board, PLC board, Remote cable(2M/3M)
Others	Communication	Profibus-DP, DeviceNet, Modbus TCP, Rnet, LonWorks, CANopen, EtherNet/IP
		Built-in Dynamic braking transistor (0.75~22kW[1~30HP]), Built-in RS485(LS Bus / Modbus RTU)

*Available soon

iP5A

Variable Frequency Drive / Inverter

Fan & Pump specialized VFD

3 phase 200V : 0.75~30kW(1~400HP), 200~230V
3 phase 400V : 0.75~450kW(1~600HP), 380~480V



- Specialized functions for Fan & Pump:
 - Advanced PID control (Pre-PID, Dual PID)
 - Multi Motor Control function (Up to 4 motors: 5.5 ~ 90kW[7.5~125HP])
- Energy saving & High efficiency:
 - Sleep & Wake-up function
 - Flying Starting function
 - Automatic energy saving function
 - Flux Braking Algorithm
- Improved protection functions:
 - Pre-heater function
 - Low Leakage PWM
 - Safety stop function
- Automatic carrier frequency change
- Selectable V/f, Sensorless vector control
- Long-life condenser & Simple framework
- Easy Start function
- Selectable PNP/NPN input signal
- Plug-in type control terminals
- Cooling fan On/Off control
- Built-in RS485(LS Bus) communication
- Communication boards (Optional):
 - Modbus RTU, DeviceNet, Profibus-DP, LonWorks, BACnet, Modbus TCP*, CANOpen, CC-Link
- Monitoring & commissioning PC based software tool (Drive View)
- DNV Certification

Model Number



LS inverter brand	Motor rating	Series name	Symbol	Input rating	Symbol	Loader	Symbol	UL Certification	Symbol	DCR	Symbol	Certificate
008 : 0.75kW - 4500 : 450kW	iP5A		2	Three-phase, 200 ~ 230V	None	Loader	O	Open type	None	Not available	(CLASS)	DNV
			4	Three-phase, 380 ~ 480V	N	Non Loader	E	Enclosed Type 1	L	DC Reactor		

General specification

Model number: SV□□□iP5A-2□		008	015	022	037	055	075	110	150	185	220	300
Motor rating (Fan/Pump)	[HP]	1	2	3	5	7.5	10	15	20	25	30	40
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30
Current (110% overload)	[A]	5	8	12	16	24	32	46	60	74	88	115
	Normal duty: 110% for 1 minute											
Motor rating (General load)	[HP]	0.5	1	2	3	5	7.5	15	15	20	25	30
	[kW]	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Current (150% overload)	[A]	2.5	5	8	12	17	23	33	44	54	68	84
	Heavy duty: 150% for 1 minute											
Output rating	[kVA]	1.9	3.0	4.6	6.1	9.1	12.2	17.5	22.9	28.2	33.5	43.8
	[V]	Three-phase 200 ~ 230V										
Input rating	[Hz]	0.01 ~ 120Hz										
	[V]	Three-phase 200 ~ 230V (-15% ~ +10%)										
Weight	[kg]	50 ~ 60Hz (±5%)										
	[kg]	4.1	4.2	4.2	4.9	4.9	6	6	13	13.5	20	20

Model number: SV□□□iP5A-4□		008	015	022	037	055	075	110	150	185	220	300	370	450	550	750	900	1100	1320	1600	2200	2800	3150	3750	4500
Motor rating (Fan/Pump)	[HP]	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	125	150	175	215	300	350	400	500	600
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	220	280	315	375	450
Current (110% overload)	[A]	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	432	547	613	731	877
	Normal duty: 110% for 1 minute																								
Motor rating (General load)	[HP]	0.5	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	125	150	175	215	300	350	400	500
	[kW]	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	220	280	315	375
Current (Non DCR / DCR) (150% overload)	[A]	1.25	2.5	4	6	8.8	12	16	22/24	28/30	34/39	44/45	61	75	91	110	152	183	223	264	325	432	547	613	731
	Heavy duty: 150% for 1 minute																								
Output rating	[kVA]	2.0	3.2	4.8	6.4	9.6	12.7	19.1	23.9	31.1	35.9	48.6	59.8	72.5	87.6	121.1	145.8	178	210	259	344	436	488	582	699
	[V]	Three-phase 380 ~ 480V																							
Input rating	[Hz]	0.01 ~ 120Hz																							
	[V]	Three-phase 380 ~ 480V (-15% ~ +10%)																							
Weight	[kg]	50 ~ 60Hz (±5%)																							
	[kg]	4.1	4.2	4.2	4.9	4.9	6	6	12.5	13	20	20	27	27	29	42	43							243	280

Control Spec	Control method	V/f, Slip compensation, Sensorless vector
	Speed reference resolution	Digital command: 0.01Hz (below 100Hz), 0.1Hz(over 100Hz) / Analog reference: 0.1Hz/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	110% for 1 minute, 120% for 1 minute(based on ambient 25°C)
	Torque boost	Auto & Manual(0 ~ 15%) torque boost
Operation	Keypad Display	32 characters LCD keypad
	Operation method	Keypad / Terminal / Communication
	Frequency setting	Analog: 0 ~ 12V / -12V ~ 12V / 4 ~ 20mA or 0 ~ 20mA / Pulse / Ext - PID / Digital: Keypad
	Operation function	DC braking / Frequency limit / Frequency jump / Second function / Slip compensation / Reverse rotation prevention / Auto restart / Inverter By-pass / Auto-tuning / PID control / Flying star / Safety stop / Flux braking / Low leakage / Pre-PID / Dual-PID / MMC / Easy start / Pre-heater
Input signal	Start signal	Forward / Reverse
	Multi-step	Up to 8 speeds can be set including JOG (Use Programmable Digital Input terminal)
	Multi-step Accel/Decel time	0.1~6,000 sec. Up to 4 types can be set (Use Multi-function terminal)
	Emergency stop	Accel/Decel curve : Linear, U curve, S curve
	JOG	Interrupts the Output from Inverter
	Fault reset	JOG operation
Output signal	Operating status	Trip status is removed when Protection function is active
	Fault output	Frequency detection level / Overload alarm / Stalling / Over voltage / Low voltage / Inverter overheating / Run / Stop / Constant speed / Inverter By-pass / Speed search
	Indicator	Contact output (3A, 3C, 3B) - AC250V 1A, DC30V 1A
		Output frequency / Output current / Output voltage / DC Link voltage(Output voltage:0~10V)
Protection	Inverter trip	Over voltage / Low voltage / Over current 1, 2 / Ground fault / Inverter overheating / Electronic thermal / Output phase open / overload / External Fault A, B / Communication Error / Frequency command loss / Hardware fault / Option fault / etc
	Inverter alarm	Stall prevention / Overload / Temperature sensor fault
Enclosure		IP20/UL type 1(5.5~11kW[7.5~15HP]), IP00/UL open type(15~450kW[20~600HP])
Option	Board, cable, keypad	LCD Keypad, Remote cable(2M/3M/5M), Sub-E board(Current output)
	Communication	DeviceNet, Profibus-DP, Modbus TCP, Modbus RTU, Matasys N2, LonWorks, BACnet, CC-Link, CANopen

*Available soon

iV5

Variable Frequency Drive / Inverter

High duty full flux vector control VFD

3 phase 200V :2.2~37kW(3~50HP), 200~230V
3 phase 400V : 2.2~500kW(1~666HP), 380~480V
DC input type : 5.5~500kW(7.5~666HP)

- Ultimate performance solution for System Drive
- Advanced Speed & Torque control (200% instantaneous torque: Max. 250%)
- Precious Speed & Position synchronization operation
- Static motor parameter Auto-tuning
- Draw / Droop / Process PID control
- Highly precious control through optional Sincos Encoder
- Synchronous motor sensorless control (SPM & IPM motors)
- Specialized functions for various applications
 - Load balance function
 - Diameter calculation / Taper function
 - Splicing / Inertia compensation function
 - Quick stop function
- Built-in Dynamic braking transistor (2.2~22kW[3~30HP])
- User-friendly LCD keypad (Detachable)
- Plug-in type control terminals
- Extension I/O boards (Optional):
 - EL I/O (for Elevator application)
 - Encoder division (open collector)
 - Synchronization option (Speed/Position control)
 - Sincos encoder
- Communication boards (Optional)
 - RS485(LS Bus / Modbus RTU)
 - Profibus-DP
 - DeviceNet
- Monitoring & commissioning PC based software tool (Drive View)



Model Number

SV	022	iV5	-	2	DB	(MD)	(DC)	380V				
LS inverter brand	Motor rating	Series name	Symbol	Input rating	Symbol	Dynamic Brake	Symbol	Cover type	Symbol	Input type	Symbol	Rated voltage
	022: 2.2kW ~ 3750: 370kW	iV5	2	Three-phase, 200 ~ 230V	None	Not available	None	Metallic cover	None	AC Input	None	200-230V or 380-480V
			4	Three-phase, 380 ~ 480V	DB	Dynamic Braking	(MD)	Mold cover*	(DC)	DC Input	****	380V, 460V, 480V*

General specification

Model number: SV□□□iV5-2□		022	037	055	075	110	150	185	220	300	370
Motor rating	[HP]	3	5	7.5	10	15	20	25	30	40	50
	[kW]	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
Output rating	Capacity	4.5	6.1	9.1	12.2	17.5	22.5	28.2	33.1	46	55
	Current	12	16	24	32	46	59	74	88	122	146
	Voltage	Three-phase 200 ~ 230V									
	RPM	0 ~ 3600 [RPM]									
Input rating	Voltage	Three-phase 200 ~ 230V (+10%, -10%)									
	Frequency	50 ~ 60Hz (±5%)									
Weight	Mold cover type	6	6	7.7	7.7	13.7	13.7	20.3	20.3		
	Metallic cover type			14	14	28	28	28	28	42	42

Model number: SV□□□iV5-4□		022	037	055	075	110	150	185	220	300	370	450	550	750	900	1100	1320	1600	2200	2800	3150	3750	5000
Motor rating	[HP]	3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	175	215	300	373	420	500	666
	[kW]	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	220	280	315	375	500
Output rating	Capacity	4.5	6.1	9.1	12.2	18.3	22.9	29.7	34.3	46	57	70	85	116	140	170	200	250	329	416	468	557	732
	Current	6	8	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	432	546	614	731	960
	Voltage	Three-phase 380 ~ 480V																					
	RPM	0 ~ 3600 [RPM]																					
Input rating	Voltage	Three-phase 380 ~ 480V (+10%, -10%)																					
	Frequency	50 ~ 60Hz (±5%)																					
Weight	Mold cover type	6	6	7.7	7.7	13.7	13.7	20.3	20.3														
	Metallic cover type			14	14	28	28	28	28	42	42	63	63	68	98	98	112	112	175	243	380	380	476

Model number: SV□□□iV5-4 (DC)		055	075	110	150	185	220	300	370	450	550	750	900	1100	1320	1600	2200	2800	3150	3750	500
Motor rating	[HP]	7.5	10	15	20	25	30	40	50	60	75	100	120	150	175	215	300	373	420	500	666
	[kW]	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	220	280	315	375	500
Output rating	Capacity	9.1	12.2	18.3	22.9	29.7	34.3	46	57	70	85	116	140	170	200	250	329	416	468	557	732
	Current	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	432	546	614	731	960
	Voltage	380 ~ 480V																			
	RPM	0 ~ 3600 [RPM]																			
Input rating	Voltage	DC 540 ~ 680V (+10%)																			
	Frequency																				
Weight	Mold cover type	12	12	24	24.5	25	25	38.5	38.5	50	50	55	79	79	98.5	98.5	154.5	206	343	343	466
	Metallic cover type																				

Control Spec	Control method	Sensored Vector (speed sensor)																				
	Speed reference resolution	Digital command: 0.1rpm / Analog reference: ±0.0005% of Max output freq.																				
	Speed accuracy	Digital command: ±0.01(0~40°C) of Max output freq. / Analog signal reference: ±0.02(25±10°C) of Max output freq.																				
	Cut-off frequency of ASR	50Hz																				
	Torque control accuracy	3%																				
	Accel/Decel time	0.00~6000.0 sec																				
	Accel/Decel combination	4 combinations of Accel/Decel time																				
	Accel/Decel curve	Linear / S curve																				
	Frequency setting	Analog: -10 to 10V / 4 to 20mA / Digital: Keypad																				
	Frequency setting	Analog: -10 to 10V / 4 to 20mA / Digital: Keypad																				
Input signal	Analog input	3 channels (AI1, AI2, AI3); Extension I/O 2 channels (AI4, AI5)																				
	Contact input	-10 to 10V / 0 to 10V / 10 to 0V / 4 to 20mA / 20 to 4mA / (AI3, AI5[Extension I/O]; Motor NTC/PTC selectable)																				
Output signal	Analog output	Selectable among 15 different Multi-function analog inputs																				
	Contact output	AI3, AI5: NTC is available only with LG-OTIS motors (both of NTC and PTC are available in case of SV2800iV5~SV3750iV5)																				
Protection	Open collector	FX, FX, BX, RST, P1~P7																				
	Open collector	Selectable among 40 different Multi-function analog inputs																				
Protection	Open collector	2 channels (AO1, AO2)																				
	Open collector	-10 to 10V / 10 to -10V / 0 to 10V / 10 to 0V																				
Protection	Open collector	Selectable among 40 different Multi-function analog outputs																				
	Open collector	Multi-function contact output: 2 channels (1A-1B, 2A-2B)																				
Protection	Open collector	Fault contact output: 1 channel (30A-30C, 30B-30C)																				
	Open collector	1 channel (OC1/EG)																				
Protection	Open collector	Over voltage / Over current / Low voltage / Inverter overheat / Inverter thermal malfunction / Motor overheat / Motor thermal malfunction / Overspeed / BX(Instantaneous IGBT gate block) / Fuse open / External fault / Encoder error / Electronic thermal / Overload / IGBT short / Communication error / etc.																				
	Open collector																					
Option	Board	IP00 (2.2~22kW[3~30HP]; Mold cover* / 30~374kW[40~500HP]; Metallic cover), IP20 (2.2~22kW[3~30HP]; Metallic cover)																				
	Communication	EL I/O(for Elevator application), Encoder division(open collector), Synchronization option(Speed/Position control), Sincos encoder																				
Option	Communication	RS485(LS Bus / Modbus RTU), Profibus-DP, DeviceNet																				
	Communication																					

*Available soon

Comparison

Variable Frequency Drive / Inverter

Model Series		iE5		iC5	iG5A		iS5	
Input Phase		Single-phase	Three-phase	Single-phase	Single-phase	Three-phase		Three-phase
Voltage Range		200~230V		200~230V	200~230V		380~480V	200~230V 380~480V
Motor rating		0.1~0.4kW	0.1~0.4kW	0.4~2.2V	0.4~1.5kW	0.4~22kW	0.4~22kW	0.75~55kW 0.75~75kW
		0.13~0.5HP	0.13~0.5HP	0.5~3HP	0.5~2HP	0.5~30HP	0.5~30HP	1~75HP 1~100HP
Constant Torque		Standard		Standard	Standard		Standard	
Variable Torque								
Control method	V/f	Standard		Standard	Standard		Standard	
	Sensorless Vector			Standard	Standard		Standard	
	Sensored Vector						Option	
Enclosure	IP00						Standard	Standard
							11~22kW	11~75kW
							15~30HP	15~100HP
	IP20	Standard	Standard		Standard		Standard	
		0.1~0.4kW	0.4~2.2kW		0.4~22kW		0.75~7.5kW	
		0.13~0.5HP	0.5~3HP		0.5~30HP		1~10HP	
	IP21							
IP54								
UL Type 1				Option				
				0.4~22kW				
				0.5~30HP				
Keypad	Type	Fixed type		Fixed type	Fixed type		Detachable type	
	Built-in	0.1~0.4kW	0.4~2.2kW		0.4~22kW		30~55kW	30~75kW
		0.13~0.5HP	0.5~3HP		0.5~30HP		40~75HP	40~100HP
	Option						0.75~22kW	
						1~30HP		
Remote cable	2 meters				Option		Option	
	3 meters				Option		Option	
	5 meters				Option		Option	
Braking transistor				Standard		Standard		
				0.4~22kW		0.75~7.5kW		
				0.5~30HP		1~10HP		
EMC Filter			Built-in Option			Footprint Filter* note 1)		
			0.4~2.2kW			0.4~4kW		
			0.5~3HP			0.5~5.4HP		
DC Reactor								
RS485(LS Bus)	Standard			Standard	Standard* note 2)		Option	
Modbus RTU	Standard		Option	Standard	Standard* note 2)		Option	
Modbus TCP					Option* note 3)			
DeviceNet					Option* note 4)		Option	
Profibus-DP							Option	
Fnet(LS PLC link)							Option	
Rnet								
LonWorks								
CANopen					Standard* note 3&4)			
BACnet								
EtherNet/IP					Standard* note 3)			
CC-Link								
MMC(Mult Motor Control)							Option	
Encoder							Option	
Sincos encoder								
PLC								
Extension I/O							Option	
Elevator I/O								
Synchronization I/O								

Note1) SV□□□iG5A-4EN-4EN or ENC

Note2) SV□□□iG5A-FB and ENC

Note3) SV□□□iG5A-FB

Note4) SV□□□iG5A-ENC

Comparison

Variable Frequency Drive / Inverter

Model Series	iS7		iP5A		iV5	
Input Phase	Three-phase		Three-phase		Three-phase	
Voltage Range	200~230V	380~480V	200~230V	380~480V	200~230V	380~480V
Motor rating	0.75~22kW 1~30HP	0.75~375kW 1~500HP	5.5~30kW 7.5~40HP	5.5~450kW 7.5~600HP	2.2~37kW 3~50HP	2.2~375kW 3~666HP
Constant Torque	Standard				Standard	
Variable Torque	Standard		Standard			
Control method	Standard		Standard			
V/f	Standard		Standard			
Sensorless Vector	Standard		Standard			
Sensored Vector	Option				Standard	
Enclosure						
IP00	Standard 30~75kW 40~100HP	Standard 90~375kW 125~500HP	Standard 15~30kW 20~40HP	Standard 15~450kW 20~600HP	Standard 2.2~22kW 3~30HP	Standard 30~75kW 2.2~375kW 3~500HP
IP20			Standard 5.5~11kW 7.5~15HP		Standard 5.5~22kW 7.5~30HP	
IP21	Standard 0.75~22kW 1~30HP	Standard 0.75~75kW 1~100HP				
IP54	Built-in Option 0.75~22kW 1~30HP					
UL Type 1	Option 0.75~75kW 1~100HP		Standard 5.5~11kW 7.5~15HP	Standard 5.5~11kW 7.5~15HP		
Keypad						
Type	Detachable type		Detachable type		Detachable type	
Built-in	90~160kW 125~215HP		37~450kW 50~600HP		2.2~370kW 3~500HP	
Option	0.75~75kW 1~100HP		7.5~40HP		5.5~30kW	
Remote cable						
2 meters	Option		Option			
3 meters	Option		Option			
5 meters			Option			
Braking transistor	Standard 0.75~22kW 1~30HP				Standard 2.2~22kW 3~30HP	
EMC Filter	Built-in Option 0.75~22kW 1~30HP					
DC Reactor	Built-in Option 0.75~22kW 1~30HP	Built-in Option 0.75~160kW 1~215HP			Built-in Option 15~280kW 20~350HP	
RS485(LS Bus)	Standard		Standard / Option		Option	
Modbus RTU	Standard		Option		Option	
Modbus TCP	Option		Option			
DeviceNet	Option		Option		Option	
Profibus-DP	Option		Option		Option	
Fnet(LS PLC link)						
Rnet	Option					
LonWorks	Option		Option			
CANopen	Option					
BACnet			Option			
EtherNet/IP	Option					
CC-Link	Option					
MMC(Mult Motor Control)	Standard		Standard			
Encoder	Option				Standard	
Sincos encoder					Option	
PLC	Option					
Extension I/O	Option					
Elevator I/O					Option	
Synchronization I/O					Option	

* Available soon

Option list

Variable Frequency Drive / Inverter

Series	Option	Description
iC5	SV-iC5 Modbus RTU	iC5 Modbus communication card
	SV-iC5 Copy Unit	iC5 Copy Unit
iG5A	SV-iG5A REMOTE CABLE 2M	2 meter connection cable between inverter and keypad plus fixture
	SV-iG5A REMOTE CABLE 3M	3 meter connection cable between inverter and keypad plus fixture
	SV-iG5A REMOTE CABLE 5M	5 meter connection cable between inverter and keypad plus fixture
	NEMA OPTION 1 (SV004/008iG5A-2/4)	Conduit Kit for NEMA 1 (iG5A 0.4~0.75kW)
	NEMA OPTION 2 (SV015iG5A-2/4)	Conduit Kit for NEMA 1 (iG5A 1.5kW)
	NEMA OPTION 3 (SV022~040iG5A-2/4)	Conduit Kit for NEMA 1 (iG5A 2.2~4kW)
	NEMA OPTION 4 (SV055/075iG5A-2/4)	Conduit Kit for NEMA 1 (iG5A 5.5~7.5kW)
iS5	SV-iS5 LCD KEYPAD	LCD display keypad for iS5
	SV-iS5/iP5A REMOTE CABLE(2M)	2 meter connection cable between inverter and keypad
	SV-iS5/iP5A REMOTE CABLE(3M)	3 meter connection cable between inverter and keypad
	SV-iS5/iP5A REMOTE CABLE(5M)	5 meter connection cable between inverter and keypad
	SV-iS5 SUB BOARD A	Extension I/O module, 3 multi-functional inputs and 3 outputs
	SV-iS5 SUB BOARD B	Encoder pulse input and output module
	SV-iS5 SUB BOARD C	Extension I/O module, 3 inputs, 1 output and 2 analog meter outputs
	SV-iS5/iP5A SUB BOARD E	Current output board (Only available in case that the dedicated O/S is installed)
	SV-iS5 MMC	Multi Motor Control board
	SV-iS5/iH RS485	RS485(LS Bus) communication board
	SV-iS5 MODBUS	Modbus RTU communication board
	SV-iS5/iP5A/IV5 DEVICENET	DeviceNet communication board
	SV-iS5 F-NET	LS PLC link board
	SV-iS5/iP5A/IV5 PROFIBUS	Profibus DP communication board
iS7	SV-iS7 LCD KEYPAD	Graphic LCD display keypad for iS7 (128x64 COG, 11 Rubber Key, 3 LED, IP21)- Multi Languages (English, Italian, Spanish, Russian, Turkish, Arabic) *
	SV-iS7 REMOTE CABLE(2M)*	2 meter connection cable between inverter and keypad
	SV-iS7 REMOTE CABLE(3M)*	3 meter connection cable between inverter and keypad
	SV-iS7 ISOLATION I/O	Insulated I/O module, 8 multi-functional inputs and 2 output
	SV-iS7 EXTENSION I/O	Extension I/O module, 3 multi-functional inputs and 3 output
	SV-iS7 ENCODER	Encoder board for closed loop control
	SV-iS7 PROFIBUS-DP	Profibus-DP communication board
	SV-iS7 PLC	PLC card (MK120S Platform)
	SV-iS7 R-net	Rnet communication board
	SV-iS7 Modbus TCP	100M BASE-TX, 10M BASE-T support
	SV-iS7 DEVICENET	DeviceNet Communication board
	SV-iS7 LONWORKS	LonWork Communication board
iP5A	SV-iP5A LCD KEYPAD	LCD display keypad for iP5A
	SV-iP5A LonWork Extension	LonWorks communication board
	SV-iP5A BACNet	BACnet communication board
	SV-iP5A/IV5 RS485/Modbus-RTU	RS485(LS Bus / Modbus RTU) communication board
	SV-iS5/iP5A/IV5 DEVICENET	DeviceNet communication board
	SV-iS5/iP5A/IV5 PROFIBUS	Profibus-DP communication board
	SV-iS5/iP5A SUB BOARD E	Current output board
	SV-iS5/iP5A REMOTE CABLE(2M)	2 meter connection cable between inverter and keypad
	SV-iS5/iP5A REMOTE CABLE(3M)	3 meter connection cable between inverter and keypad
	SV-iS5/iP5A REMOTE CABLE(5M)	5 meter connection cable between inverter and keypad
iV5	SV-iP5A MODBUS TCP*	Modbus TCP communication card
	SV-iV5 EL I/O	I/O interface board for Elevator application
	SV-iV5 ENC_DIV(OC)	Encoder division board (Open collector)
	SV-iV5 SYNC I/O	Synchronization operation board (Speed/Positioning control)
	SV-iS5/iP5A/IV5 PROFIBUS	Profibus-DP communication board
	SV-iS5/iP5A/IV5 DEVICENET	DeviceNet communication board
iV5	SV-iP5A/IV5 RS485/Modbus-RTU	RS485(LS Bus / Modbus RTU) communication board
	SV-iV5 Sincos Encoder	Sincos encoder signal input board

* Available soon



Dynamic Braking Unit list

Variable Frequency Drive / Inverter

Model name	Specifications
Dynamic Braking Unit	: Based on 150% torque for 100 seconds
SV150DBU-2	Brake unit for 11 to 15kW, 230V / 10%ED
SV220DBU-2	Brake unit for 18.5 to 22kW, 230V / 10%ED
SV037DBH-2(NEW)	Brake unit for 30 to 37kW, 230V / 10%ED
SV150DBU-4	Brake unit for 11 to 15kW, 400V / 10%ED
SV220DBU-4	Brake unit for 18.5 to 22kW, 400V / 10%ED
SV037DBH-4(NEW)	Brake unit for 30 to 37kW, 400V / 10%ED
SV075DBH-4(NEW)	Brake unit for 45 to 75kW, 400V / 10%ED
SV150DBU-2U	Brake unit for 11 to 15kW, 230V / 10%ED (UL, cUL listed)
SV220DBU-2U	Brake unit for 18.5 to 22kW, 230V / 10%ED (UL, cUL listed)
SV370DBU-2U	Brake unit for 30 to 37kW, 230V / 10%ED (UL, cUL listed)
SV550DBU-2U	Brake unit for 45 to 55kW, 230V / 10%ED (UL, cUL listed)
SV150DBU-4U	Brake unit for 11 to 15kW, 400V / 10%ED (UL, cUL listed)
SV220DBU-4U	Brake unit for 18.5 to 22kW, 400V / 10%ED (UL, cUL listed)
SV370DBU-4U	Brake unit for 30 to 37kW, 400V / 10%ED (UL, cUL listed)
SV550DBU-4U	Brake unit for 45 to 55kW, 400V / 10%ED (UL, cUL listed)
SV750DBU-4U	Brake unit for 75kW, 400V / 10%ED (UL, cUL listed)
SV750DB-4*	Brake unit for 45 to 75kW, 400V / 100%ED (CE marked)
SV2200DB-4*	Brake unit for 160 to 220kW, 400V / 100%ED (CE marked)

* Available soon


External resistor list

Variable Frequency Drive / Inverter

Model name	Specifications
External brake resistors	: Based on 5% ED (Enable duty)
MCRA 120 W 100 OHM J	120 watt, 100 ohm resistor
MCRA 120 W 50 OHM J	120 watt, 50 ohm resistor
MCRA 120 W 40 OHM J	120 watt, 40 ohm resistor
MCRA 200 W 100 OHM J	200 watt, 100 ohm resistor
MCRA 200 W 160 OHM J	200 watt, 160 ohm resistor
MCRA 200 W 200 OHM J	200 watt, 200 ohm resistor
MCRB 300 W 100 OHM J	300 watt, 100 ohm resistor
MCRB 400 W 200 OHM J	400 watt, 200 ohm resistor
MCRB 400 W 160 OHM J	400 watt, 160 ohm resistor
MCRB 400 W 100 OHM J	400 watt, 100 ohm resistor
MCRB 400 W 50 OHM J	400 watt, 50 ohm resistor
MCRB 400 W 40 OHM J	400 watt, 40 ohm resistor
MCRB-ST 0.6 KW 130 OHM J	600 watt, 130 ohm resistor
MCRB-ST 0.6 KW 33 OHM J	600 watt, 33 ohm resistor
MCRM-ST 0.8 KW 20 OHM J	800 watt, 20 ohm resistor
MCRM-ST 1.0 KW 85 OHM J	1 kW, 85 ohm resistor
MCRM-ST 1.2 KW 60 OHM J	1.2 kW, 60 ohm resistor
MCRM-ST 1.2 KW 15 OHM J	1.2 kW, 15 ohm resistor
MCRM-ST 2.0 KW 40 OHM J	2 kW, 40 ohm resistor
MCRM-ST 2.4 KW 30 OHM J	2.4 kW, 30 ohm resistor
MCRM-ST 2.4 KW 10 OHM J	2.4 kW, 10 ohm resistor
MCRM-ST 2.4 KW 8 OHM J	2.4 kW, 8 ohm resistor
MCRM-ST 3.6 KW 20 OHM J	3.6 kW, 30 ohm resistor
MCRM-ST 3.6 KW 5 OHM J	3.6 kW, 5 ohm resistor

Memo

Variable Frequency Drive / Inverter



Green Innovators of Innovation



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 a 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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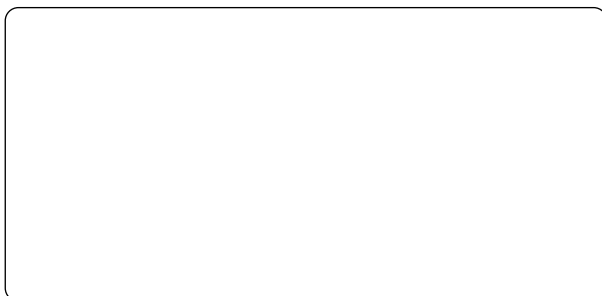
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Specifications in this catalog are subject to change without notice due to continuous product development and improvement.