

Green Innovators of Innovation

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Variable Frequency Drive

LS Inverter Series

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



LS *IS*



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



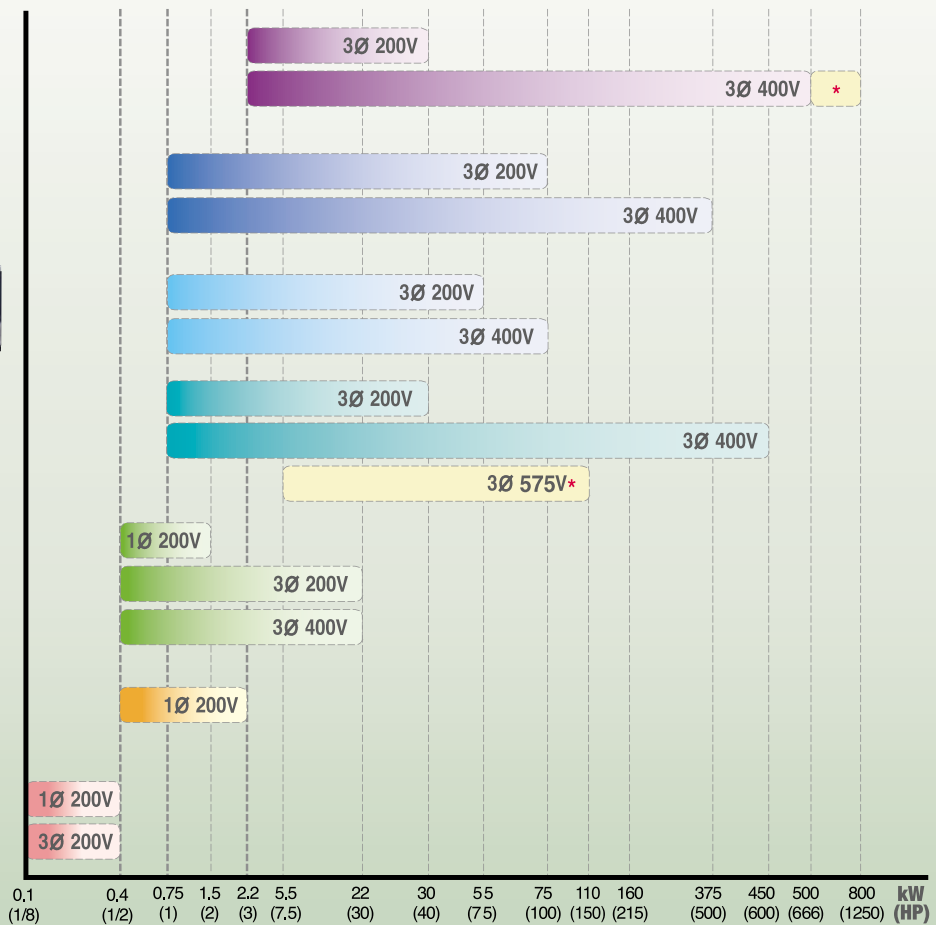
iC5

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

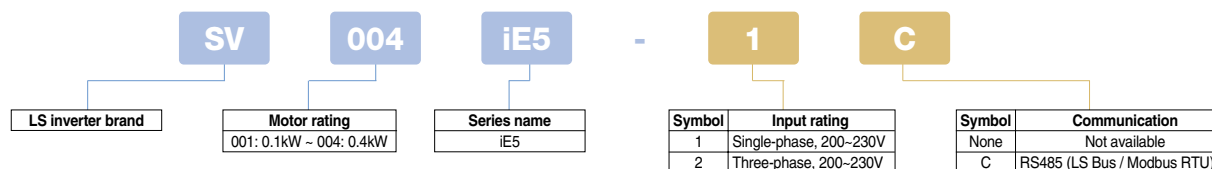
User friendly micro size slim VFD

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



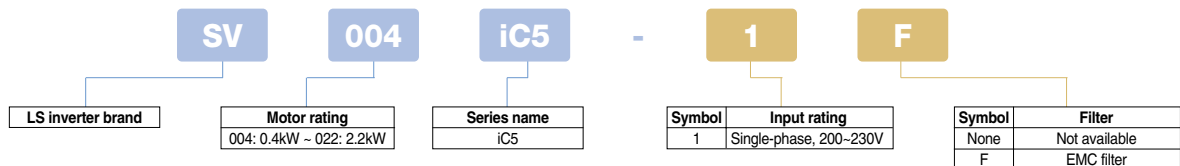
General specification

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						
	Torque boost	Auto & manual torque boost						
Operation	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	PNP / NPN selectable						
	(P1 ~ P5)	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
	Voltage	[V]	Three-phase 200 ~ 230V			
	Frequency	[Hz]	0.1 ~ 400Hz			
Input rating	Voltage	[V]	Single-phase 200 ~ 230V (±10%)			
	Frequency	[Hz]	50 ~ 60Hz (±5%)			
	Current	[A]	5.5	9.2	16	21.6
Weight		[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	(N.O., N.C.) Less than AC 250V, 0.3A / Less than DC 30V 1A DC24V (less than 50mA) 0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable				
Protection	Inverter trip	Over voltage / Low voltage / Over current / Ground fault / Inverter overheat / Output phase open / Inverter overload Overload trip / Communication error / Frequency command loss / Hardware fault / Fan fault / etc.				
	Inverter alarm	Stall prevention, Overload				
Enclosure		IP20				
Option	Communication, copy unit	Modbus RTU, Parameter copy unit				



iG5A

Variable Frequency Drive / Inverter

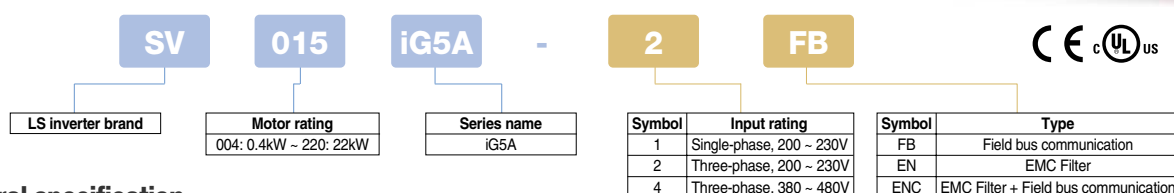
Powerful & compact sensorless vector control VFD

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	3.0
	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%)		
Weight	Frequency	[Hz]	50 ~ 60Hz (±5%)		
		[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%)											
Weight	Frequency	[Hz]	50 ~ 60Hz (±5%)											
		[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%)											
Weight	Frequency	[Hz]	50 ~ 60Hz (±5%)											
		[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
Input signal	Overload capacity	150% for 1 minute
	Torque boost	Auto & manual torque boost
Output signal	Keypad Display	4 digit, 7 segment LED
	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
Enclosure Option	Multi-function terminal (P1 ~ P8)	PNP / NPN selectable
	Multi-function relay	8 points (programmable)
Others	Multi-function open collector	Fault output & inverter status output (N.O., N.C.) Less than AC250V, 0.3A / Less than DC 30V 1A
	Analog output	DC24V (less than 50mA)
Protection	Inverter trip	0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable
	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.
Enclosure Option	IP20, NEMA1 (Optional)	Stall prevention, Overload
	Cable, conduit kit	IP20, NEMA1 (Optional)
Others	Communication	Remote cable(2M/3M/5M) plus external keypad, Conduit kit for NEMA 1
		DeviceNet, EtherNet, CANOpen, Profibus-DP
Others		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

LS inverter brand	Motor rating	Series name	Symbol	Input rating	Symbol	Loader	Symbol	UL certification	Symbol	Rated voltage
SV	008: 0.75kW ~ 750: 75kW	iS5	2	Three-phase, 200 ~ 230V	None	Loader	O	Open type	None	200~230V or 380~480V
			4	Three-phase, 380 ~ 480V	N	Non Loader	E	Enclosed type 1	****	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													
Input rating	Frequency	[Hz]	0.1 ~ 400Hz (Sensorless control: 0.1~300Hz, Sensored control: 0.1~120Hz)													
	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														
Input rating	Frequency	[Hz]	0.1 ~ 400Hz (Sensorless control: 0.1~300Hz, Sensored control: 0.1~120Hz)														
	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
	Fault output	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
	Indicator	Contact output (30A, 30C, 30B) - AC250V 1A, DC30V 1A
Enclosure	Inverter trip	Output frequency / Output current / Output voltage(0~10V) / DC voltage / Output torque selectable
	Inverter alarm	
Option	Board, cable, keypad	Over voltage / Low voltage / Over current 1, 2 / Fuse open / Ground fault / Inverter overheat / Electronic thermal / Output phase open / overload / External Fault A, B / Over speed / Communication Error / Frequency command loss / Hardware fault / M/C fail / etc
	Communication	Stall prevention / Overload / Temperature sensor fault
Others	IP20(0.75~7.5kW[1~10HP]), IP00(11~75kW[15~100HP])	
	LCD Keypad, Remote cable(2M/3M/5M), Sub-A board(Extension I/O), Sub-B board(Encoder I/O), Sub-C board(Extension I/O: current input), MMC board RS485(LS Bus), Modbus RTU, DeviceNet, Profibus-DP, Fnet	



iS7

Variable Frequency Drive / Inverter

High Torque Performance and Precise VFD

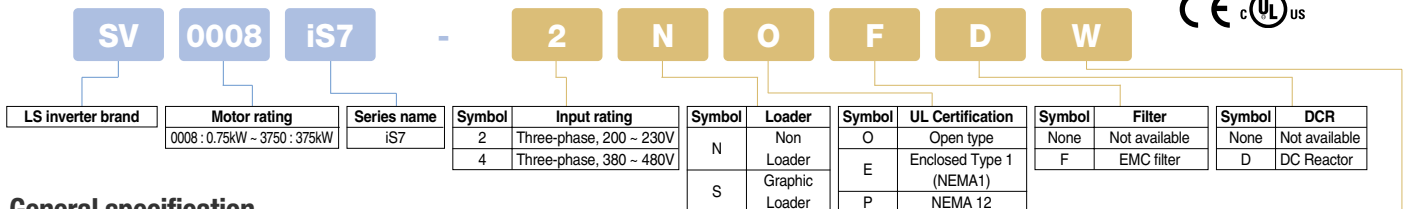
3 phase 200V : 0.75~75kW(1~100HP), 200~230V

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		
		Voltage	Three-phase 200 ~ 230V																
		Frequency	0.01 ~ 400Hz (Sensorless-1 control: 0.01~300Hz, Sensorless-2 or Sensored control: 0.01~120Hz)																
Input rating	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
		Voltage	Three-phase 380 ~ 480V																							
		Frequency	0.01 ~ 400Hz (Sensorless-1 control: 0.01~300Hz, Sensorless-2 or Sensored control: 0.01~120Hz)																							
Input rating	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	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)																							
	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	CT(Heavy duty): 150% for 1 minute, VT(Normal duty): 110% for 1 minute																							
	Torque boost	Auto & Manual torque boost																							
Operation	Keypad Display	Wide graphic LCD keypad (available 6 languages)																							
	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 / 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																							
Input signal	Multi-function terminal (P1 ~ P8)	PNP / NPN selectable 8 points (programmable)																							
Output signal	Multi-function relay	(N.O., N.C.) Less than AC250V, 1A / 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 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		IP00 (30~75kW, 200V/90~375kW, 400V), IP21 (0.75~22kW, 200V / 0.75~75kW, 400V), IP54 / NEMA12 (0.75~22kW, 200V/ 400; Optional)																							
Option	Board, Cable, Keypad Communication	Graphic LCD keypad(IP21), Extension I/O, Isolation I/O, Encoder board, PLC board, Remote cable(2M/3M) Profibus-DP, DeviceNet, Modbus TCP, Rnet, LonWorks, CANopen, EtherNet/IP																							
Others		Built-in Dynamic braking transistor (0.75~22kW/1~30HP) Built-in RS485(I.S.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
SV	055	iP5A	2	Three-phase, 200 ~ 230V	None	Loader	O	Open type	None	Not available	(CLASS)	DNV
	008 : 0.75kW ~ 4500 : 450kW	IP5A	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
		Three-phase 200 ~ 230V										
Voltage	[V]	0.01 ~ 120Hz										
	[Hz]	Three-phase 200 ~ 230V (-15% ~ +10%)										
Input rating	[V]	50 ~ 60Hz (±5%)										
	[Hz]	Three-phase 200 ~ 230V (-15% ~ +10%)										
Weight	[kg]	4.1	4.2	4.2	4.9	4.9	6	6	13	13.5	20	20
		Non DCR type										

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
		Three-phase 380 ~ 480V																							
Voltage	[V]	0.01 ~ 120Hz																							
	[Hz]	Three-phase 380 ~ 480V (-15% ~ +10%)																							
Input rating	[V]	50 ~ 60Hz (±5%)																							
	[Hz]	Three-phase 380 ~ 480V (-15% ~ +10%)																							
Weight	[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	380
		Non DCR type																							
Built-in DCR type	[kg]	4.1	4.2	4.2	4.9	4.9	6	6	19.5	19.5	26.5	26.5	39	40	42	67	68	101	101	114	200	200			
		Built-in DCR type																							

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

*Available soon



Variable Frequency Drive / Inverter

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)



The diagram illustrates the components of the motor code 'SV 022 iV5 - 2 DB (MD) (DC) 380V' and their corresponding meanings:

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

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 [kVA]	4.5	6.1	9.1	12.2	17.5	22.5	28.2	33.1	46	55
	Current [A]	12	16	24	32	46	59	74	88	122	146
	Voltage [V]	Three-phase 200 ~ 230V									
	RPM	0 ~ 3600 [RPM]									
Input rating	Voltage [V]	Three-phase 200 ~ 230V (+10%, -10%)									
	Frequency [Hz]	50 ~ 60Hz (±5%)									
Weight	Mold cover type [kg]	6	6	7.7	7.7	13.7	13.7	20.3	20.3		
	Metallic cover type [kg]			14	14	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	[kVA]	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	[A]	6	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	432	546	614	731	960	
	Voltage	[V]	Three-phase 380 ~ 480V																					
	RPM		0 ~ 3600 [RPM]																					
Input rating	Voltage	[V]	Three-phase 380 ~ 480V (+10%, -10%)																					
	Frequency	[Hz]	50 ~ 60Hz (±5%)																					
Weight	Mold cover type	[kg]	6	6	7.7	7.7	13.7	13.7	20.3	20.3														
	Metallic cover type	[kg]			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	[kVA]	9.1	12.2	18.3	22.9	29.7	34.3	46	57	70	88	114	140	170	205	250	329	416	468	557	732
	Current	[A]	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	432	546	614	731	960
	Voltage	[V]	380 ~ 480V																			
	RPM		0 ~ 3600 [RPM]																			
Input rating	Voltage	[V]	DC 540 ~ 680V (+10%.)																			
Weight		[kg]	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

Control Spec	Control method	Sensored Vector (speed sensor)
	Speed reference resolution	Digital command: 0.1rpm / Analog reference: $\pm 0.0005\%$ of Max output freq.
	Speed accuracy	Digital command: $\pm 0.01(0\sim 40^{\circ}\text{C})$ of Max output freq. / Analog signal reference: $\pm 0.02(25\pm 10^{\circ}\text{C})$ 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
Input signal	Analog input	3 channels (AI1, AI2, AI3): Extension I/O 2 channels (AI4, AI5) -10 to 10V / 0 to 10V / 10 to 0V / 4 to 20mA / 20 to 4mA / (AI3, AI5)Extension I/O: Motor NTC/PTC selectable Selectable among 15 different Multi-function analog inputs AI3, AI5: NTC is available only with LG-OTIS motors (both of NTC and PTC are available in case of SV2800IV5~SV3750IV5) FX, RX, EX, RST, P1~P7 Selectable among 40 different Multi-function analog inputs
	Contact input	
Output signal	Analog output	2 channels (AO1, AO2) -10 to 10V / 10 to -10V / 0 to 10V / 10 to 0V Selectable among 40 different Multi-function analog outputs Multi-function contact output: 2 channels (1A-1B, 2A-2B) Fault contact output: 1 channel (30A-30C, 30B-30C)
	Contact output	
	Open collector	1 channel (OC1/EG)
Protection		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.
Enclosure		IP00 (2.2~22kW[3~30HP]; Mold cover / 30~374kW[40~500HP]; Metallic cover), IP20 (2.2~22kW[3~30HP]; Metallic cover)
Option	Board Communication	EL I/O(for Elevator application), Encoder division(open collector), Synchronization option(Speed/Position control), Sincos encoder RS485(LS Bus / Modbus RTU), Profibus-DP, DeviceNet.

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Comparison

Variable Frequency Drive / Inverter

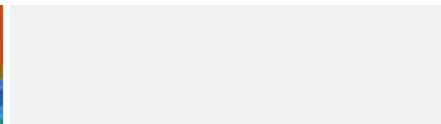
Model Series		iE5		iC5	iG5A		iS5		
Input Phase		Single-phase	Three-phase	Single-phase	Single-phase	Three-phase		Three-phase	
Voltage Range		200~230V		200~230V	200~230V		380~480V	200~230V	380~480V
Motor rating		0.1~0.4kW	0.1~0.4kW	0.4~2.2V	0.4~1.5kW	0.4~22kW	0.4~22kW	0.75~55kW	0.75~75kW
		0.13~0.5HP	0.13~0.5HP	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		
Remote cable	2 meters				Option		1~30HP		
	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	0.75~375kW	5.5~30kW	5.5~450kW	2.2~37kW	2.2~375kW	
		1~30HP	1~500HP	7.5~40HP	7.5~600HP	3~50HP	3~666HP	
Constant Torque		Standard				Standard		
Variable Torque		Standard		Standard				
Control method		V/f	Standard	Standard				
		Sensorless Vector	Standard	Standard				
		Sensored Vector	Option			Standard		
Enclosure		IP00	Standard	Standard	Standard	Standard	Standard	Standard30~75kW
			30~75kW	90~375kW	15~30kW	15~450kW	2.2~22kW	2.2~375kW
			40~100HP	125~500HP	20~40HP	20~600HP	3~30HP	3~500HP
		IP20			Standard		Standard	
					5.5~11kW		5.5~22kW	
					7.5~15HP		7.5~30HP	
		IP21	Standard	Standard				
			0.75~22kW	0.75~75kW				
			1~30HP	1~100HP				
		IP54	Built-in Option					
			0.75~22kW					
			1~30HP					
UL Type 1	Option		Standard	Standard				
	0.75~75kW		5.5~11kW	5.5~11kW				
	1~100HP		7.5~15HP	7.5~15HP				
Keypad		Type	Detachable type		Detachable type		Detachable type	
		Built-in	90~160kW		37~450kW		2.2~370kW	
			125~215HP		50~600HP		3~500HP	
		Option	0.75~75kW				5.5~30kW	
			1~100HP		7.5~40HP			
Remote cable		2 meters	Option		Option			
		3 meters	Option		Option			
		5 meters			Option			
Braking transistor		Standard				Standard		
		0.75~22kW				2.2~22kW		
		1~30HP				3~30HP		
EMC Filter		Built-in Option						
		0.75~22kW						
		1~30HP						
DC Reactor		Built-in Option	Built-in Option		Built-in Option			
		0.75~22kW	0.75~160kW		15~280kW			
		1~30HP	1~215HP		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(Mulit Motor Control)		Standard		Standard				
Encoder		Option				Standard		
Sincos encoder						Option		
PLC		Option						
Extension I/O		Option						
Elevator I/O						Option		
Synchronization I/O						Option		

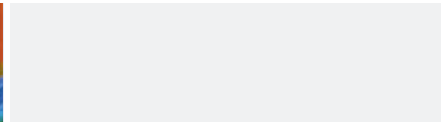
* Available soon

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)
	NEMA OPTION 5 (SV110/150iG5A-2/4)	Conduit Kit for NEMA 1 (iG5A 11~15kW)
	NEMA OPTION 6 (SV185/220iG5A-2/4)	Conduit Kit for NEMA 1 (iG5A 18.5~22kW)
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
	SV-iS7 CANopen	CanOpen 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
	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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Specifications in this catalog are subject to change without notice due to continuous product development and improvement.

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