

Leading Innovation, Creating Tomorrow 

Variable Frequency Drive LS Inverter Series

iE5 / iC5 / iG5A / iS5 / iS7 / iH / iP5A / iV5



Automation Equipment



LS Industrial Systems
www.lgis.com



Take another look!

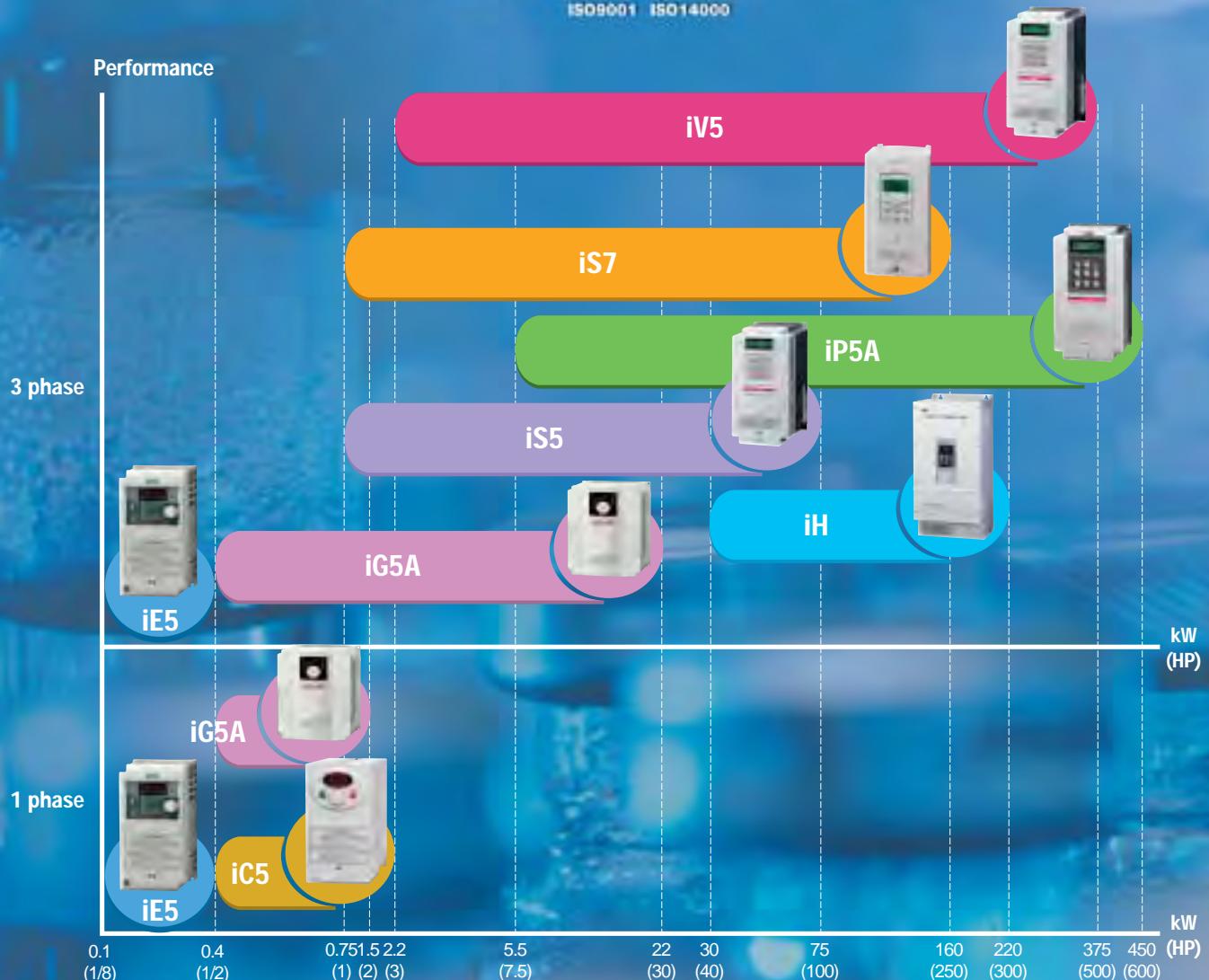
Simplicity-Precision, Flexibility-Standardization and Easy to use-Diversity are the inherent qualities of LS Variable Frequency Drives.

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





Performance



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iE5

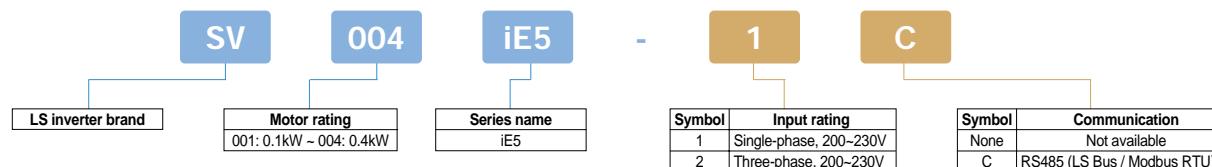
Variable Frequency Drive / Inverter

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 x 128 x 85mm (2.7 x 5 x 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



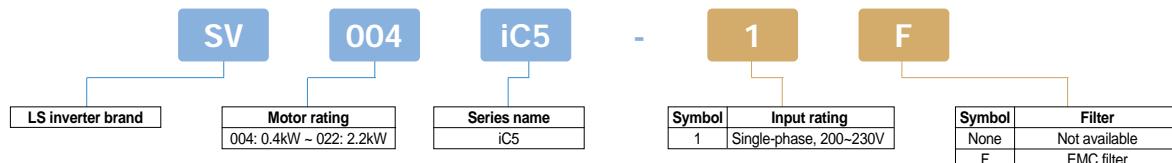
General specification

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
	Current	[A]	0.8	1.4	2.5	0.8	1.6
	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
	Weight	[kg]	0.44	0.46	1.68	0.43	0.45
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 (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
	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	Multi-function relay	(N.O., N.C.) Less than AC 250V, 0.3A / Less than DC 30V 1A DC24V (less than 50mA)			
	Multi-function open collector				
	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 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

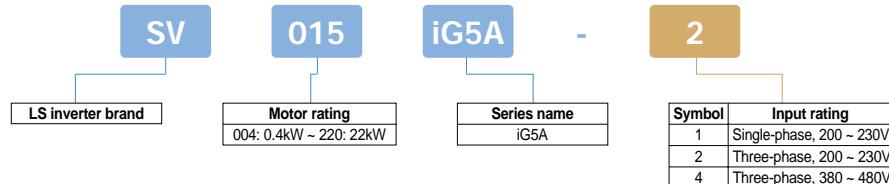
1 phase 0.4~1.5kW(0.5~2HP), 200~230V
3 phase 0.4~22kW(0.5~30HP), 200~230V
3 phase 0.4~22kW(0.5~30HP), 380~480V

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 algorism
Monitoring & commissioning PC based software tool (Drive View)



Model Number



General specification

Model number: SV iG5A-1		004				008				015			
Motor rating		[HP]	0.5				1				2		
		[kW]	0.4				0.75				1.5		
Output rating	Capacity	[kVA]	0.95				1.9				3.0		
	Current	[A]	2.5				5				8		
	Voltage	[V]	Three-phase 200 ~ 230V										
	Frequency	[Hz]	0.1 ~ 400Hz										
Input rating	Voltage	[V]	Single-phase 200 ~ 230V (+10%, -15%)										
	Frequency	[Hz]	50 ~ 60Hz (± 5%)										
Weight		[kg]	0.77				1.12				1.84		
Model number: SV iG5A-2		004	008	015	022	037	040	055	075	110	150	185	220
Motor rating		[HP]	0.5	1	2	3	5	5.4	7.5	10	15	20	30
		[kW]	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	22
Output rating	Capacity	[kVA]	0.95	1.9	3	4.5	6.1	6.5	9.1	12.2	17.5	22.9	33.5
	Current	[A]	2.5	5	8	12	16	17	24	32	46	60	74
	Voltage	[V]	Three-phase 200 ~ 230V										
	Frequency	[Hz]	0.1 ~ 400Hz										
Input rating	Voltage	[V]	Three-phase 200 ~ 230V (+10%, -15%)										
	Frequency	[Hz]	50 ~ 60Hz (± 5%)										
Weight		[kg]	0.76	0.77	1.12	1.84	1.89	1.89	3.66	3.66	9.00	9.00	13.3
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	30
		[kW]	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	22
Output rating	Capacity	[kVA]	0.95	1.9	3	4.5	6.1	6.5	9.1	12.2	18.3	22.9	34.3
	Current	[A]	1.25	2.5	4	6	8	9	12	16	24	30	39
	Voltage	[V]	Three-phase 380 ~ 480V										
	Frequency	[Hz]	0.1 ~ 400Hz										
Input rating	Voltage	[V]	Three-phase 380 ~ 480V (+10%, -15%)										
	Frequency	[Hz]	50 ~ 60Hz (± 5%)										
Weight		[kg]	0.76	0.77	1.12	1.84	1.89	1.89	3.66	3.66	9.00	9.00	13.3
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											
	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 / -10 to 10V / 0 to 20mA / Digital: Keypad											
	Operation function	PID control / Up-Down operation / 3-Wire operation											
Input signal	Multi-function terminal (P1 ~ P8)	PNP / NPN selectable 8 points (programmable)											
Output signal	Multi-function relay	(N.O., N.C.) Less than AC250V, 0.3A / Less than DC 30V 1A											
	Multi-function open collector	DC24V (less than 50mA)											
	Analog output	0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable											
Protection	Inverter trip	Over voltage / Low voltage / Over current / 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.											
	Inverter alarm	Stall prevention, Overload											
Enclosure Option	Cable, conduit kit	IP20, NEMA1 (Optional)											
Others		Remote cable(2M/3M/5M) plus external keypad, Conduit kit for NEMA 1											
		Built-in Dynamic braking transistor, Built-in RS485(LS Bus / Modbus RTU)											



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

SV	008	iS5	-	2	N	O	380V		
LS inverter brand	Motor rating 008: 0.75kW ~ 750: 75kW	Series name iS5	Symbol Input rating						
			Symbol Input rating						
			2 Three-phase, 200 ~ 230V						
			4 Three-phase, 380 ~ 480V						
			Symbol Loader						
			None Loader						
			Symbol UL certification						
			O Open type						
			E Enclosed type 1						
			Symbol Rated voltage						
			None 200~230V or 380~480V						
			**** 380V, 440V, 460V, 480V						

General specification

Model number: SV	iS5-2	008	015	022	037	055	075	110	150	185	220	300	370	450	550
Motor rating		[HP] 1	2	3	5	7.5	10	15	20	25	30	40	50	60	75
		[kW] 0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55
Output rating	Capacity	[kVA]	1.9	3	4.5	6.1	9.1	12.2	17.5	22.9	28.5	33.5	46	55	68
	Current	[A]	5	8	12	16	24	32	46	60	74	88	122	146	180
	Voltage	[V]	Three-phase 200 ~ 230V												
	Frequency	[Hz]	0.1 ~ 400Hz (Sensorless control: 0.1~300Hz, Sensored control: 0.1~120Hz)												
Input rating	Voltage	[V]	Three-phase 200 ~ 230V (± 10%)												
	Frequency	[Hz]	50 ~ 60Hz (± 5%)												
	Weight	[kg]	4.6	4.6	4.8	4.9	7.5	7.7	13.8	14.3	19.4	20.0	42.0	42.0	61
Model number: SV	iS5-4	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	29.7	34.3	45	56	68
	Current	[A]	2.5	4	6	8	12	16	24	30	39	45	61	75	91
	Voltage	[V]	Three-phase 380 ~ 480V												
	Frequency	[Hz]	0.1 ~ 400Hz (Sensorless control: 0.1~300Hz, Sensored control: 0.1~120Hz)												
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
Control Spec	Control method	Sensorless vector, Sensored vector, V/f													
	Speed reference resolution	Digital command: 0.01Hz (less than 100Hz), 0.1Hz (greater than 100Hz) / Analog reference: 0.03Hz (Max freq., 60Hz)													
	Frequency accuracy	Digital command: 0.01% of Max output freq. / Analog signal command of 0.1% of Max output freq.													
	V/f curve	Linear, Squared, User custom V/f													
	Overload capacity	150% for 1 minute, 200% for 0.5 second													
Operation	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													
	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													
Input signal	Sart signal	Forward / Reverse													
	Multi-step	Up to 8 speeds can be set (Use Multi-function terminal)													
	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	Interrupts the Output from Inverter													
	JOG	JOG operation													
	Auto operation	Operates from Internal sequence by setting Multi-function terminal (5 way * 8 Step)													
	Fault reset	Trip status is removed when Protection function is active													
Output signal	Operating status	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													
	Fault output	Contact output (30A, 30C, 30B) - AC250V 1A, DC30V 1A													
	Indicator	Output frequency / Output current / Output voltage(0~10V) / DC voltage / Output torque selectable													
Protection	Inverter trip	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													
	Inverter alarm	Stall prevention / Overload / Temperature sensor fault													
Enclosure Option	Board, cable, keypad Communication	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													
Others		Built-in Dynamic braking transistor(0.75~7.5kW[1~10HP])													



iS7

Variable Frequency Drive / Inverter

High Torque Performance and Precise VFD

3 phase 0.75~22kW(1~30HP), 200~230V

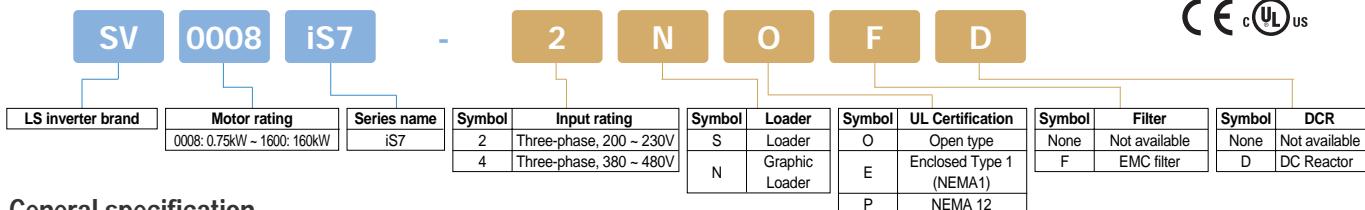
3 phase 0.75~160kW(1~250HP), 380~480V



Constant torque / Variable torque dual rating
Selectable V/f, V/f PG, sensorless vector, sensored 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
Motor rating	[HP]	1	2	3	5	7.5	10	15	20	25	30
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Output rating	Capacity [kVA]	1.9	3	4.5	6.1	9.1	12.2	17.5	22.9	28.5	33.5
	Current (CT) [A]	5	8	12	16	24	32	46	60	74	88
	Current (VT) [A]	8	12	16	24	32	46	60	74	88	124
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)									
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
	Current (VT) [A]	7	10.6	14.8	21.8	28	42	52	60	75	107

Model number: SV iS7-4		008	015	022	037	055	075	110	150	185	220	300	370	450	550	750	900	1100	1320	1600
Motor rating	[HP]	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	180	225
	[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
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
	Current (CT) [A]	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325
	Current (VT) [A]	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	370
Voltage	[V]	Three-phase 380 ~ 480V										0.01 ~ 400Hz (Sensorless-1 control: 0.01~300Hz, Sensorless-2 or Sensored control: 0.01~120Hz)								
Frequency	[Hz]	50 ~ 60Hz (± 5%)										Three-phase 380 ~ 480V (-15% ~ +10%)								
Input rating	Voltage [V]	Three-phase 380 ~ 480V (-15% ~ +10%)										50 ~ 60Hz (± 5%)								
	Frequency [Hz]	50 ~ 60Hz (± 5%)										Current (CT) [A]								
	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
	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

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																		
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 Option	Board, Cable, Keypad Communication	IP21(0.75~75kW[1~100HP]), IP20(90~160kW[125~215HP]), IP54(0.75~22kW[1~30HP])* , UL Type 1(Optional)* Graphic LCD keypad(P21), 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(LS Bus / Modbus RTU)																		

*Available soon



Space Vector PWM technology
 Constant torque / Variable torque dual rating
 Low noise level (high performance DSP & IGBT)
 Precise torque calculation through current control
 (high torque performance)
 4 ~ 20mA Analog output
 2 line 32 characters LCD display as standard
 Built-in Process PI control
 150% starting torque
 2 ~ 10kHz carrier frequency
 Slip compensation
 Recovery from momentary power failure (Flying start)
 Monitoring & commissioning PC based software tool (Drive View)

Model Number

SV	037	iH	-	4	U	-	380V
LS inverter brand	Motor rating 030:30kW - 220: 220kW	Series name iH		Symbol 2 4	Input rating Three-phase, 200 ~ 230V Three-phase, 380 ~ 480V	Symbol U	UL Certification UL 508C
							Symbol **** Rated voltage 220V, 380V, 440V, 460V

General specification

Model number: SV	iH-	030-2U	037-2U	045-2U	055-2U	030-4U	037-4U	045-4U	055-4U	075-4U	090-4U	110-4U	132-4U	160-4U	220-4U														
Motor rating	Constant Torque [HP]	40	50	60	75	40	50	60	75	100	125	150	175	215	300														
	Constant Torque [kW]	30	37	45	55	30	37	45	55	75	90	110	132	160	220														
	Variable Torque [HP]					50	60	75	100	125	150	175	215	250	350														
	Variable Torque [kW]					37	45	55	75	90	110	132	160	185	280														
Output ratings (380V based)	Constant Torque FLA [A]	122	146	180	220	61	75	91	110	152	183	223	264	325	432														
	Constant Torque [kVA]	46	55	68	83	40	50	60	70	100	120	145	170	200	280														
	Variable Torque FLA [A]					80	96	115	125	160	228	264	330	361	477														
	Variable Torque [kVA]					52	62	74	80	103	147	170	213	233	307														
	Voltage [V]	Three-phase, 200 ~ 230V				Three-phase, 380 ~ 460V																							
	Frequency [Hz]	0.5 ~ 400Hz				0.5 ~ 400Hz																							
Input ratings	Voltage [V]	Three-phase, 200 ~ 230V (± 10%)				Three-phase, 380 ~ 460V (± 10%)																							
	Frequency [Hz]	50 ~ 60Hz (± 5%)				50 ~ 60Hz (± 5%)																							
Weight	[kg]	42	42	56	56	45	45	63	63	68	98	98	122	122	175														
Control method	V/f (Space Vector PWM)																												
Speed reference resolution	Digital command: 0.01Hz (below 99Hz) & 0.1Hz (100Hz and over) / Analog command: 0.03Hz at 60Hz																												
Frequency accuracy	Digital: 0.01% of Maximum output frequency / Analog: 0.1 % of Maximum output frequency																												
V/f curve	Linear / Squared, User custom V/f																												
Overload capacity	Constant Torque	150% for 1 minute, 200% for 0.5 second																											
	Variable Torque	110% for 1 minute, 150% for 0.5 second																											
Torque boost	Auto & Manual(0 ~ 20%) torque boost																												
Multi-function input terminal	6 points (programmable)																												
Multi-function output	5 points (Programmable) : 2 form A contact (N.O.) / Fault contact output (A,B,C)-AC 250V 1A, DC 30V 1A / 3 Open collect Output: 24V 25mA																												
Analog output	4 ~ 20mA																												
Input signal	Operation method	Keypad / Terminal / Communication																											
	Frequency setting	Analog: 0 ~ 10V, 4 ~ 20mA / Digital : Keypad																											
	Start signal	Forward / Reverse																											
	Multi-step operation	Up to 8 speeds can be set (Use Multi-function terminal)																											
	Multi-step Accel/Decel time	0.1~6,000 sec, Up to 8 types can be set and selected for each setting (Use Multi-function terminal)																											
	Operation function	DC braking / Frequency limit / Frequency jump / Slip compensation / PI control / Stall prevention																											
	Emergency stop	Interrupts the Output from Inverter																											
	JOG	JOG operation																											
	Fault reset	Trip status is removed when Protection function is active																											
Output signal	Operating status	Frequency detection level / Overload alarm / Stalling / Over voltage / Low voltage / Inverter overheat/ Run / Stop / Constant speed / Speed search																											
	Indicator	RPM, Output frequency / Output current / Output voltage(Voltage: 0~10V, Pulse : 500Hz)																											
Protection	Inverter trip	Over voltage / Low voltage / Over current / Inverter overheating / Fuse open / Ground fault / Overload / M/C fail / etc.																											
	Inverter alarm	Stall prevention / Overload																											
Enclosure Option	IP00																												
	RS485(LS Bus), Remote cable(2M/3M/4M)																												



iP5A

Variable Frequency Drive / Inverter

Fan & Pump specialized VFD

3 phase 5.5~30kW(7.5~40HP), 200~230V

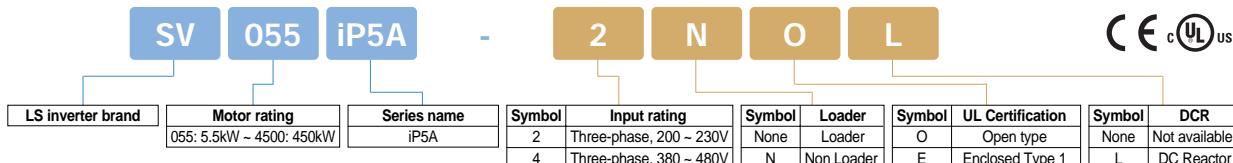
3 phase 5.5~450kW(7.5~600HP), 380~480V

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®
Monitoring & commissioning PC based software tool (Drive View)



Model Number



General specification

Model number: SV	IP54-2		055	075	110	150	185	220	300
Motor rating (Fan/Pump)	[HP]	7.5	10	15	20	25	30	40	
	[kW]	5.5	7.5	11	15	18.5	22	30	
	[A]	24	32	46	60	74	88	115	
(110% overload)		Normal duty: 110% for 1 minute							
Motor rating (General load)	[HP]	5	7.5	10	15	20	25	30	
	[kW]	3.7	5.5	7.5	11	15	18.5	22	
	[A]	17	23	33	44	54	68	84	
(150% overload)		Heavy duty: 150% for 1 minute							
Output rating	[kVA]	9.1	12.2	17.5	22.9	28.2	33.5	43.8	
	Voltage	[V]	Three-phase 200 ~ 230V						
	Frequency	[Hz]	0.01 ~ 120Hz						
Input rating	Voltage	[V]	Three-phase 200 ~ 230V (-15% ~ +10%)						
	Frequency	[Hz]	50 ~ 60Hz ($\pm 5\%$)						
Weight	Non DCR type	[kg]	4.9	6	6	13	13.5	20	20

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 Vf
	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	Sart 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	Interrupts the Output from Inverter
	JOG	JOG operation
Output signal	Fault reset	Trip status is removed when Protection function is active
	Operating status	Frequency detection level / Overload alarm / Stalling / Over voltage / Low voltage / Inverter overheating / Run / Stop / Constant speed / Inverter By-pass / Speed search
	Fault output	Contact output (3A, 3C, 3B) - AC250V 1A, DC30V 1A
Protection	Indicator	Output frequency / Output current / Output voltage / DC Link voltage(Output voltage 0~10V)
	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 (15.5~11kW[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	Built-in RS485(LS Bus / Modbus RTU), DeviceNet, Profibus-DP, LonWorks, BACnet, Modbus TCP*

*Available soon



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)	-	380V
LS inverter brand	Motor rating	Series name	Symbol	Input rating	Symbol	Dynamic Brake	Symbol	Cover type
022: 2.2kW ~ 3750: 370kW	iV5		2	Three-phase, 200 ~ 230V	None	Not available	None	Metallic cover
			4	Three-phase, 380 ~ 480V	DB	Dynamic Braking	(MD)	Mold cover*
							Symbol	Rated voltage
							None	200~230V or 380~480V
							***	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 [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 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	42	42
	Metallic cover type [kg]			14	14	28	28	28	28	63	68
Model number: SV iV5-4		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	18.3	22.9	29.7	34.3	46	55
	Current [A]	6	8	12	16	24	30	39	45	61	75
	Voltage [V]	Three-phase 380 ~ 480V 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	42	42
	Metallic cover type [kg]			14	14	28	28	28	28	63	68
Control Spec	Control method	Sensored Vector (sensor speed)									
	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									
Input signal	Analog input	3 channels (A11, A12, A13); Extension I/O 2 channels (A14, A15) -10 to 10V / 0 to 10V / 0 to 0V / 4 to 20mA / 20 to 4mA / A13, A15[Extention I/O]: Motor NTC/PTC selectable Selectable among 15 different Multi-function analog inputs A13, A15: NTC is available only with LG-OTIS motors (both of NTC and PTC are available in case of SV2800iV5-SV3750iV5)									
	Contact input	FX, RX, BX, RST, P1-P7 Selectable among 40 different Multi-function analog inputs									
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									
	Contact output	Multi-function contact output: 2 channels (1A-1B, 2A-2B) Fault contact output: 1 channel (30A-30C, 30B-30C)									
	Open collector	1 channel (OC1/EG)									
Protection		Over voltage / Over current / Low voltage / Inverter overheating / Inverter thermal malfunction / Motor overheating / Motor thermal malfunction / Overspeed / BX (Instantaneous IGBT gate block) / Fuse open / External fault / Encoder error / Electronic thermal / Overload / IGBT short / Communication error / etc.									
Enclosure Option	Board Communication	IP20 (2.2~22kW[3~30HP]: Mold cover* / 30~374kW[40~500HP]: Metallic cover), IP20 (2.2~22kW[3~30HP]: Metallic cover) 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									

*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 0.13~0.5HP	0.1~0.4kW 0.13~0.5HP	0.4~2.2V 0.5~3HP	0.4~1.5kW 0.5~2HP	0.4~22kW 0.5~30HP	0.4~22kW 0.5~30HP	0.75~55kW 1~75HP	0.75~75kW 1~100HP					
Constant Torque	Standard		Standard	Standard			Standard						
Variable Torque													
Control method	V/f	Standard		Standard			Standard						
	Sensorless Vector	Standard		Standard			Standard						
	Sensored Vector						Option						
Enclosure	IP00						Standard	Standard					
							11~22kW	11~75kW					
	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			0.75~22kW						
		0.13~0.5HP	0.5~3HP	0.5~30HP			1~30HP						
	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									
				0.4~2.2kW									
				0.5~3HP									
DC Reactor													
RS485(LS Bus)		Standard	Standard			Standard	Option						
Modbus RTU		Standard	Option			Standard	Option						
Modbus TCP													
DeviceNet							Option						
Profibus-DP							Option						
Fnet(LS PLC link)							Option						
Rnet													
LonWorks													
CANopen													
BACnet													
EtherNet/IP													
CC-Link													
MMC(Mulit Motor Control)							Option						
Encoder							Option						
Sincos encoder													
PLC													
Extension I/O							Option						
Elevator I/O													
Synchronization I/O													

Model Series	iS7		iH		iP5A		iV5	
Input Phase	Three-phase		Three-phase		Three-phase		Three-phase	
Voltage Range	200~230V	380~480V	200~230V	380~480V	200~230V	380~480V	200~230V	380~480V
Motor rating	0.75~22kW	0.75~160kW	30~55kW	30~220kW	5.5~30kW	5.5~450kW	2.2~37kW	2.2~375kW
	1~30HP	1~215HP	40~75HP	40~300HP	7.5~40HP	7.5~600HP	3~50HP	3~500HP
Constant Torque	Standard		Standard				Standard	
Variable Torque	Standard		Standard		Standard			
Control method	V/f	Standard	Standard		Standard			
	Sensorless Vector	Standard			Standard			
	Sensored Vector	Option					Standard	
Enclosure	IP00					Standard	Standard	Standard
						15~30kW	15~450kW	2.2~22kW
						20~40HP	20~600HP	3~30HP
	IP20			Standard	Standard	Standard		Standard
				90~160kW	30~55kW	5.5~11kW		5.5~22kW
				125~215HP	40~75HP	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		Detachable type
	Built-in			30~220kW		5.5~30kW		2.2~370kW
				40~300HP		7.5~40HP		3~500HP
	Option	0.75~160kW				37~450kW		
		1~215HP				50~600HP		
Remote cable	2 meters	Option		Option		Option		
	3 meters	Option		Option		Option		
	5 meters			Option		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		Option		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)
iS5	NEMA OPTION 6 (SV185/220iG5A-2/4)	Conduit Kit for NEMA 1 (iG5A 18.5~22kW)
	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
iS7	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
	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)*
iH	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
iP5A	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
	SV-iH LOADER CABLE 2M	2 meter connection cable between inverter and keypad
	SV-iH LOADER CABLE 3M	3 meter connection cable between inverter and keypad
	SV-iH LOADER CABLE 5M	5 meter connection cable between inverter and keypad
	SV-iS5/iH RS485	RS485(LS Bus) communication board
iV5	SV-iP5A LCD KEYPAD	LCD display keypad for iP5A
	SV-iP5A LonWorks 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
iV5	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-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	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

Leading Innovation, Creating Tomorrow



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 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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- مشاوره و اجرای سیستمهای اتوماسیون ماشین آلات
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