

Green Innovators of Innovation

www.ls-is.biz



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.**





KSA
ISO9001 ISO14000
EMS KAB

DNV

RoHS



Performance

* : Available soon

iV5

3Ø 200V: 2.2~37kW
3Ø 400V: 2.2~800kW



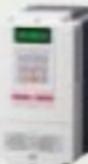
iS7

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



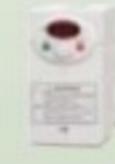
iG5A

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



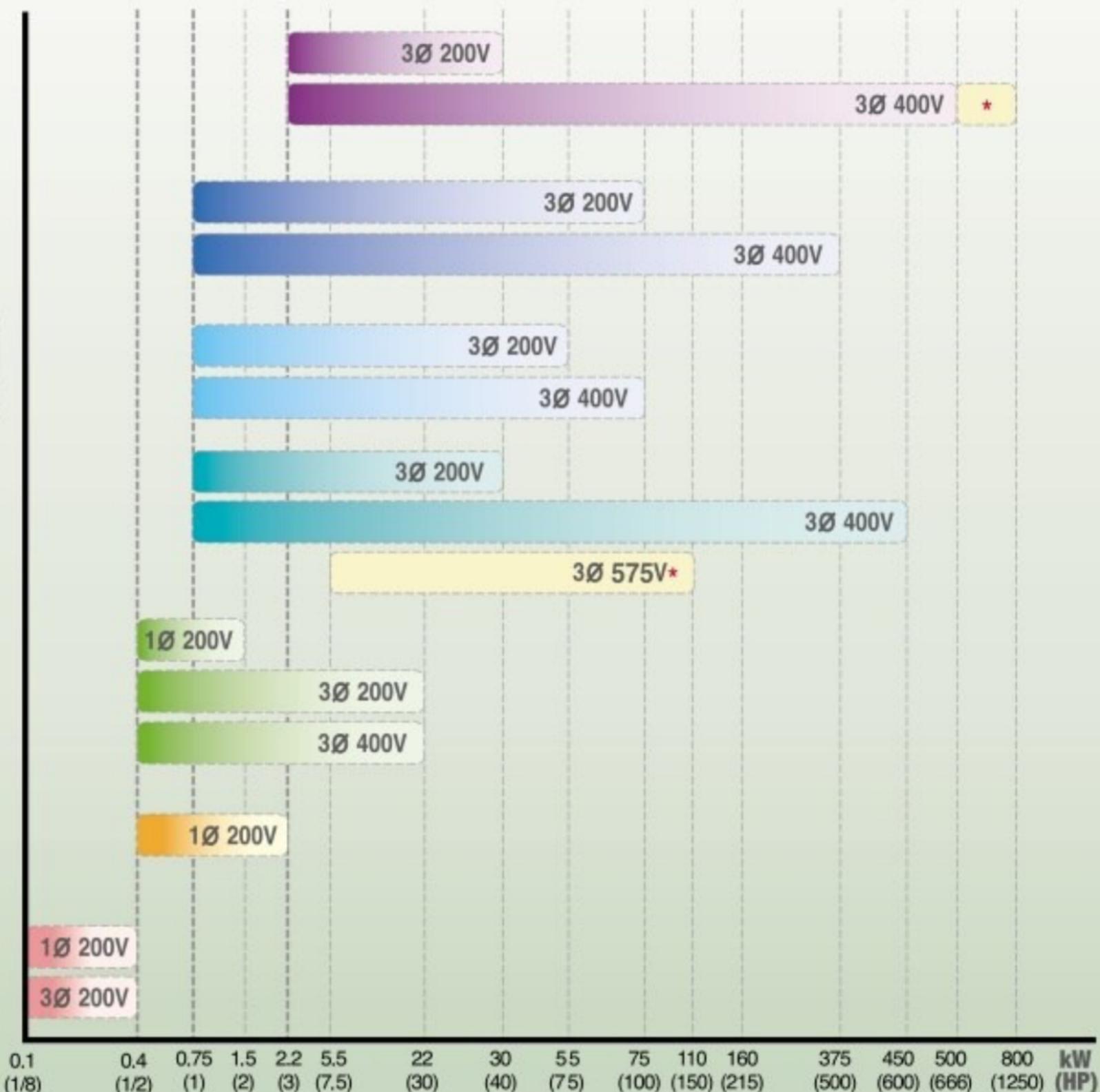
iC5

1Ø 200V: 0.4~2.2kW



iE5

1Ø 200V: 0.1~0.4kW
3Ø 200V: 0.1~0.4kW



Contents

- iE5 4
- iC5 5
- iG5A 6
- iS5 7
- iS7 8
- iV5 10
- Comparison 11
- Option list 13
- Dynamic Braking Unit list 14
- External resistor list 14
- iP5A 9



iE5

Variable Frequency Drive / Inverter

User friendly micro size slim VFD

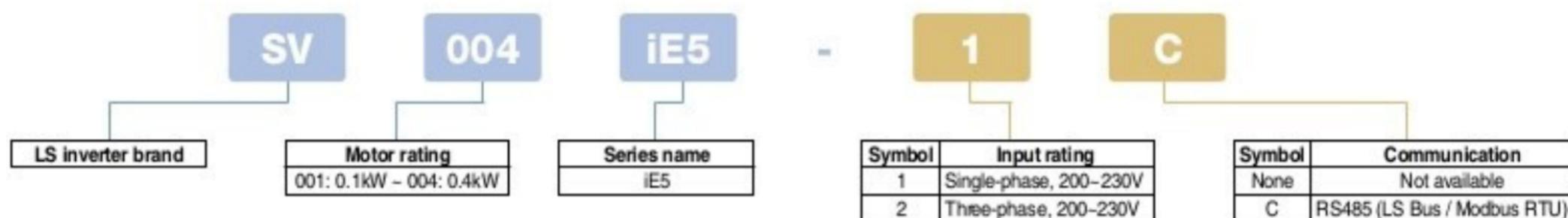
1 phase 0.1~0.4kW(0.1~0.5HP), 200~230V

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



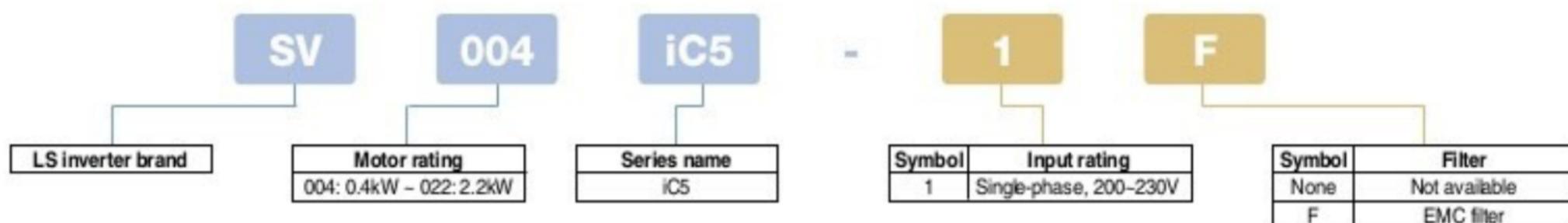
General specification

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
	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 ($\pm 10\%$)		Three-phase 200 ~ 230V ($\pm 10\%$)		
	Frequency	[Hz]	50 ~ 60Hz ($\pm 5\%$)				
	Current	[A]	2.0	3.5	5.5	1.2	2.0
Weight	[kg]	0.44	0.46	1.68	0.43	0.45	0.67
Control Spec	Control method	V/f, Slip compensation					
	Speed reference resolution	Digital command: 0.01Hz / Analog reference: 0.1Hz (Max freq., 60Hz)					
	Frequency accuracy	Digital command: 0.01% of Max output freq. / Analog signal command of 0.1% of Max output freq.					
	V/f curve	Linear, Squared V/f					
	Overload capacity	150% for 1 minute					
Operation	Torque boost	Auto & manual torque boost					
	Keypad Display	4 digit, 7 segment LED					
	Operation method	Keypad / Terminal / Communication					
	Frequency setting	Analog: 0 to 10V / 0 to 20mA / Potentiometer / Digital: Keypad					
Input signal	Operation function	PI control / Up-Down operation / 3-Wire operation					
	Multi-function terminal (P1 ~ P5)	PNP / NPN selectable 5 points (programmable)					
	Analogue input	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	0.5	1	2	3
	[kW]	0.4	0.4	0.75	1.5	2.2
Output rating	Capacity [kVA]	0.95	0.95	1.9	3	4.5
	Current [A]	2.5	2.5	5	8	12
	Voltage [V]	Three-phase 200 ~ 230V				
	Frequency [Hz]	0.1 ~ 400Hz				
Input rating	Voltage [V]	Single-phase 200 ~ 230V ($\pm 10\%$)				
	Frequency [Hz]	50 ~ 60Hz ($\pm 5\%$)				
	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				
	Multi-function open collector	Fault output & inverter status output DC24V (less than 50mA)				
	Analog output	0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable				
Protection	Inverter trip	Over voltage / Low voltage / Over current / Ground fault / 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

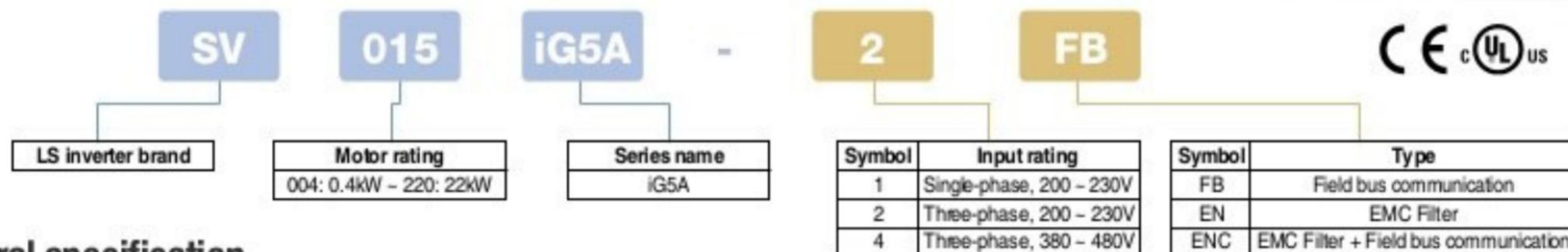
3 phase 0.4~22kW(0.5~30HP), 380~480V

- 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	
	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 ($\pm 5\%$)					
Weight	[kg]	0.77		1.12		1.84		
Model number: SV□□□iG5A-2□		004	008	015	022	037	040	
Motor rating	[HP]	0.5	1	2	3	5	5.4	
	[kW]	0.4	0.75	1.5	2.2	3.7	4.0	
Output rating	Capacity	[kVA]	0.95	1.9	3	4.5	6.1	
	Current	[A]	2.5	5	8	12	16	
	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 ($\pm 5\%$)					
Weight	[kg]	0.76	0.77	1.12	1.84	1.89	3.66	
Model number: SV□□□iG5A-4□		004	008	015	022	037	040	
Motor rating	[HP]	0.5	1	2	3	5	5.4	
	[kW]	0.4	0.75	1.5	2.2	3.7	4.0	
Output rating	Capacity	[kVA]	0.95	1.9	3	4.5	6.1	
	Current	[A]	1.25	2.5	4	6	8	
	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 ($\pm 5\%$)					
Weight	[kg]	0.76	0.77	1.12	1.84	1.89	3.66	
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	Fault output & inverter status output (N.O., N.C.) Less than AC250V, 0.3A / Less than DC 30V 1A						
	Multi-function open collector	DC24V (less than 50mA)						
	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 alarm	Inverter overload / Overload trip / Communication error / Frequency command loss / Hardware fault / Fan fault / Brake error / etc.						
		Stall prevention, Overload						
Enclosure	IP20, NEMA1 (Optional)							
Option	Cable, conduit kit	Remote cable(2M/3M/5M) plus external keypad, Conduit kit for NEMA 1						
	Communication	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

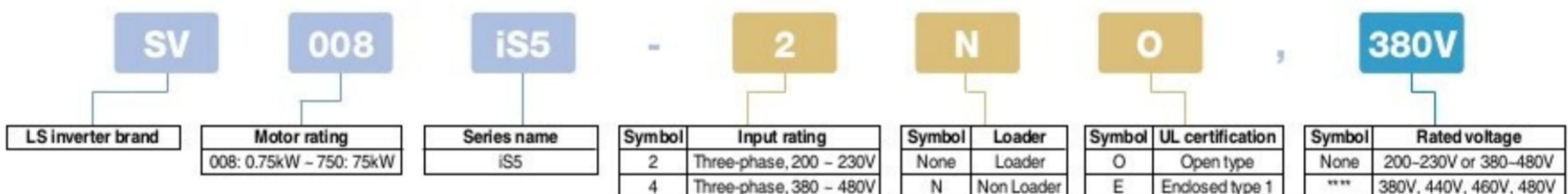
3 phase 0.75~55kW(1~75HP), 200~230V

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



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 ($\pm 10\%$)															
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 ($\pm 10\%$)															
Weight		[kg]	4.7	4.7	4.8	4.9	7.7	7.7	13.9	14.4	20	20	45	45	63	63	68	
Control Spec	Control method	Sensorless vector, Sensored vector, V/f																
	Speed reference resolution	Digital command: 0.01Hz (less than 100Hz), 0.1Hz (greater than 100Hz) / Analog reference: 0.03Hz (Max freq., 60Hz)																
	Frequency accuracy	Digital command: 0.01% of Max output freq. / Analog signal command of 0.1% of Max output freq.																
	V/f curve	Linear, Squared, User custom V/f																
	Overload capacity	150% for 1 minute, 200% for 0.5 second																
	Torque boost	Auto & manual(0 - 15%) torque boost																
Operation	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	Start 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)																
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 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																
Protection	Indicator	Output frequency / Output current / Output voltage(0-10V) / DC voltage / Output torque selectable																
	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	IP20(0.75-7.5kW[1-10HP]), IP00(11-75kW[15-100HP])																	
Option	Board, cable, keypad	LCD Keypad, Remote cable(2M/3M/5M), Sub-A board(Extension IO), Sub-B board(Encoder IO), Sub-C board(Extension IO: current input), MMC board																
Others	Communication	RS485(LS Bus), Modbus RTU, DeviceNet, Profibus-DP, Fnet																



iS7

Variable Frequency Drive / Inverter

High Torque Performance and Precise VFD

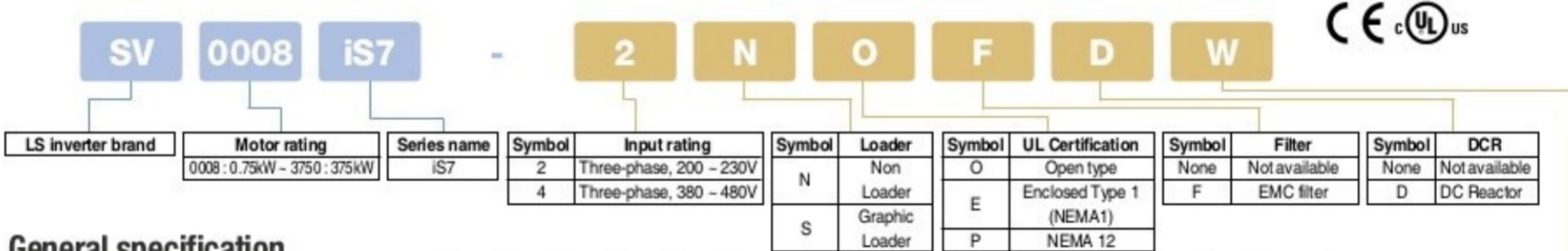
3 phase 200V : 0.75~75kW(1~100HP), 200~230V

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



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	[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 ($\pm 5\%$)																
	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	[V]	Three-phase 380 ~ 480V																							
		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 380 ~ 480V (-15% ~ +10%)																							
		Frequency	[Hz]	50 ~ 60Hz ($\pm 5\%$)																							
		Current (CT)	[A]	4.3	7.2	10.6	15.4	21	25.8	39	44	57	57	57	69	83	113	154	195	239	286	362	404	466	605	674	798
		Current (VT)	[A]	3.5	5.3	7.3	10.8	13.8	22.5	26	33	40	52.2	90	109	123	162	195	237	282	350	403	463	590	673	796	948

Control Spec	Control method	V/f, V/f PG, Slip compensation, Sensorless-1 vector, Sensorless-2 vector, Sensored vector
	Speed reference resolution	Digital command: 0.01Hz / Analog reference: 0.06Hz (Max freq., 60Hz)
	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 (R1, R2)	PNP / NPN selectable 2 points (max. 24VDC)

Output signal (P1 ~ P8)	Multi-function relay Multi-function open collector Analog output	8 points (programmable) Fault output & inverter status output (N.O., N.C.) Less than AC250V, 1A / 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 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 Graphic LCD keypad(IP21), Extension I/O, Isolation I/O, Encoderboard, PLC board, Remote cable(2M/3M)
Communication	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

iP5A

Variable Frequency Drive / Inverter



- 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

SV	055	iP5A	-	2	N	O	L	(CLASS)							
LS inverter brand	Motor rating	Series name		Symbol	Input rating			Symbol	Loader	Symbol	UL Certification	Symbol	DCR	Symbol	Certificate
008 : 0.75kW - 4500 : 450kW	IP5A			2	Three-phase, 200~230V			None	Loader	O	Open type	None	Not available	(CLASS)	DNV
				4	Three-phase, 380~480V			N	Non Loader	E	Enclosed Type 1	L	DC Reactor		

General specification

Model number: SV□□□iP5A-2□		008	015	022	037	055	075	110	150	185	220	300																
Motor rating (Fan/Pump)	[HP]	1	2	3	5	7.5	10	15	20	25	30	40																
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30																
Current (110% overload)	[A]	5	8	12	16	24	32	46	60	74	88	115																
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																
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																
Voltage	[V]	Three-phase 200~230V																										
Frequency	[Hz]	0.01~120Hz																										
Input rating	Voltage	Three-phase 200~230V (-15%~+10%)																										
	Frequency	50~60Hz ($\pm 5\%$)																										
Weight	Non DCR type	[kg]	4.1	4.2	4.2	4.9	4.9	6	6	13	13.5	20	20															
Model number: SV□□□iP5A-4□		008	015	022	037	055	075	110	150	185	220	300	370	450	550	750	900	1100	1320	1600	2200	2800	3150	3750	4500			
Motor rating (Fan/Pump)	[HP]	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	125	150	175	215	300	350	400	500	600			
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	220	280	315	375	450			
Current (110% overload)	[A]	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	432	547	613	731	877			
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			
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			
Voltage	[V]	Three-phase 380~480V																										
Frequency	[Hz]	0.01~120Hz																										
Input rating	Voltage	Three-phase 380~480V (-15%~+10%)																										
Weight	Non DCR type	[kg]	4.1	4.2	4.2	4.9	4.9	6	6	12.5	13	20	20	27	27	29	42	43	67	68	101	101	114	200	200	243	280	380
Control Spec	Control method	V/f, Slip compensation, Sensorless vector																										
	Speed reference resolution	Digital command: 0.01Hz (below 100Hz), 0.1Hz(over 100Hz) / Analog reference: 0.1Hz/60Hz																										
	Frequency accuracy	Digital command: 0.01% of Max output freq. / Analog signal command of 0.1% of Max output freq.																										
	V/f curve	Linear, Squared, User custom V/f																										
	Overload capacity	110% for 1 minute, 120% for 1 minute(based on ambient 25°C)																										
	Torque boost	Auto & Manual(0~15%) torque boost																										
Operation	Keypad Display	32 characters LCD keypad																										
	Operation method	Keypad / Terminal / Communication																										
	Frequency setting	Analog: 0~12V / -12V~12V / 4~20mA or 0~20mA / Pulse / Ext - PID / Digital: Keypad																										
	Operation function																											



iV5

Variable Frequency Drive / Inverter

High duty full flux vector control VFD

3 phase 200V : 2.2~37kW(3~50HP), 200~230V

3 phase 400V : 2.2~500kW(1~666HP), 380~480V

DC input type : 5.5~500kW(7.5~666HP)

- Ultimate performance solution for System Drive
- Advanced Speed & Torque control
(200% instantaneous torque: Max. 250%)
- Precious Speed & Position synchronization operation
- Static motor parameter Auto-tuning
- Draw / Droop / Process PID control
- Highly precious control through optional Sincos Encoder
- Synchronous motor sensorless control
(SPM & IPM motors)
- Specialized functions for various applications
Load balance function
Diameter calculation / Taper function
Splicing / Inertia compensation function
Quick stop function

- Built-in Dynamic braking transistor (2.2~22kW[3~30HP])
- User-friendly LCD keypad (Detachable)
- Plug-in type control terminals
- Extension I/O boards (Optional):
EL I/O (for Elevator application)
Encoder division (open collector)
Synchronization option (Speed/Position control)
Sincos encoder
- Communication boards (Optional)
RS485(LS Bus / Modbus RTU)
Profinet-DP
DeviceNet
- Monitoring & commissioning PC based software tool
(Drive View)



Model Number

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

General specification

Model number: SV□□□N5-2□		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	17.5	22.5	28.2	33.1	46	57	70	85	116	140	170	200	250	329	416	468	557	732										
	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	42	42	63	63	68	98	98	112	112	175	243	380	380	476										
	Metallic cover type	[kg]			14	14	28	28	28	28																								
Model number: SV□□□N5-4□		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	8	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																															
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	63	63	68	98	98	112	112	175	243	380	380	476										
	Metallic cover type	[kg]			14	14	28	28	28	28																								
Model number: SV□□□N5-4 (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	85	116	140	170	200	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																															
Input rating	Voltage	[V]	0 - 3600 [RPM]																															
	Weight	[kg]	DC 540 - 680V (+10%)																															
Control Spec	Control method	Sensored Vector (speed sensor)																																
	Speed reference resolution	Digital command: 0.1rpm / Analog reference: ± 0.0005% of Max output freq.																																
	Speed accuracy																																	

Comparison

Variable Frequency Drive / Inverter

Model Series		iE5		iC5		iG5A			iS5		
Input Phase		Single-phase		Three-phase		Single-phase		Three-phase		Three-phase	
Voltage Range		200~230V		200~230V		200~230V		380~480V		200~230V	
Motor rating		0.1~0.4kW		0.1~0.4kW		0.4~2.2V		0.4~1.5kW		0.4~22kW	
		0.13~0.5HP		0.13~0.5HP		0.5~3HP		0.5~2HP		0.5~30HP	
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										
	IP44										
	UL Type 1					Option					
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	
	Option	0.13~0.5HP		0.5~3HP		0.5~30HP			40~75HP	40~100HP	
Remote cable	2 meters					Option			0.75~22kW		
	3 meters					Option			1~30HP		
	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(Mulit Motor Control)									Option		
	Encoder								Option		
	Sincos encoder										
PLC											
	Extension I/O								Option		
	Elevator I/O										
Synchronization I/O											

Note1) SV□□□G5A-4EN-4EN or ENC

Note2) SV□□□G5A-FB and ENC

Note3) SV□□□G5A-FB

Note4) SV□□□G5A-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	Standard			
	Sensorless Vector	Standard	Standard	Standard			
	Sensored Vector	Option			Standard		
Enclosure	IP00	Standard	Standard	Standard	Standard	Standard 30~75kW	
		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		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)
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
	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
iS7	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) *
	SV-iS7 REMOTE CABLE(2M)*	2 meter connection cable between inverter and keypad
	SV-iS7 REMOTE CABLE(3M)*	3 meter connection cable between inverter and keypad
	SV-iS7 ISOLATION I/O	Insulated I/O module, 8 multi-functional inputs and 2 output
	SV-iS7 EXTENSION I/O	Extension I/O module, 3 multi-functional inputs and 3 output
	SV-iS7 ENCODER	Encoder board for closed loop control
	SV-iS7 PROFIBUS-DP	Profibus-DP communication board
	SV-iS7 PLC	PLC card (MK120S Platform)
	SV-iS7 R-net	Rnet communication board
	SV-iS7 Modbus TCP	100M BASE-TX, 10M BASE-T support
	SV-iS7 DEVICENET	DeviceNet Communication board
	SV-iS7 LONWORKS	LonWork Communication board
iP5A	SV-iS7 CANopen	CanOpen communication board
	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
iV5	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	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.

LSIS Co., Ltd.

© 2003.4 LSIS Co.,Ltd. All rights reserved.

www.lsis.biz

■ HEAD OFFICE

Korea Gyeonggi-do Anyang-si dongan-gu
LS-ro 127 (Hogye-dong)

■ Middle East	+82-2-2034-4901 / bonseongk@lsis.biz
■ Europe & Africa	+82-2-2034-4376 / ywsohn@lsis.biz
■ Asia Pacific	+82-2-2034-4645 / sungkyup@lsis.biz



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

■ Global Network

- **LSIS (Middle East) FZE** » Dubai, U.A.E.
Address: LOB 19 JAFZA VIEW TOWER Room 205, Jebel Ali Freezone P.O. Box 114216, Dubai, United Arab Emirates
Tel: 971-4-886 5360 Fax: 971-4-886-5361 e-mail: jungyong@lsis.biz
- **Dalian LSIS Co., Ltd.** » Dalian, China
Address: No.15, Liaohexi 3-Road, Economic and Technical Development zone, Dalian 116600, China
Tel: 86-411-8273-7777 Fax: 86-411-8730-7560 e-mail: lxk@lsis.com.cn
- **LSIS (Wuxi) Co., Ltd.** » Wuxi, China
Address: 102-A, National High & New Tech Industrial Development Area, Wuxi, Jiangsu, 214028, P.R.China
Tel: 86-510-8534-6666 Fax: 86-510-522-4078 e-mail: xuhg@lsis.com.cn
- **LSIS-VINA Co., Ltd.** » Hanoi, Vietnam
Address: Nguyen Khe - Dong Anh - Ha Noi - Viet Nam
Tel: 84-4-882-0222 Fax: 84-4-882-0220 e-mail: srjo@lsisvina.com
- **LSIS-VINA Co., Ltd.** » Hochiminh , Vietnam
Address: 41 Nguyen Thi Minh Khai Str. Yoco Bldg 4th Floor, Hochiminh City, Vietnam
Tel: 84-8-3822-7941 Fax: 84-8-3822-7942 e-mail: spark@lsisvina.com
- **LSIS Shanghai Office** » Shanghai, China
Address: Room E-G, 12th Floor Huamin Empire Plaza, No.726, West Yan'an Road Shanghai 200050, P.R. China
Tel: 86-21-5237-9977 (609) Fax: 86-21-5237-7191 e-mail: jinkh@lsis.com.cn
- **LSIS Beijing Office** » Beijing, China
Address: B-Tower 17FL Beijing Global Trade Center B/D. No.36, BeiSanHuanDong-Lu, DongCheng-District, Beijing 100013, P.R. China
Tel: 86-10-5825-6025,7 Fax: 86-10-5825-6026 e-mail: cuixiaorong@lsis.com.cn
- **LSIS Guangzhou Office** » Guangzhou, China
Address: Room 1403,14F,New Poly Tower,2 Zhongshan Liu Road,Guangzhou, P.R. China
Tel: 86-20-8326-6764 Fax: 86-20-8326-6287 e-mail: linsz@lsis.biz
- **LSIS Chengdu Office** » Chengdu, China
Address: Room 1701 17Floor, huanminhanjun international Building, No.1 Fuxing Road Chengdu, 610041, P.R. China
Tel: 86-28-8670-3101 Fax: 86-28-8670-3203 e-mail: yangcf@lsis.com.cn
- **LSIS Qingdao Office** » Qingdao, China
Address: 7B40,Haixin Guangchang Sheny Building B, No.9, Shandong Road, Qingdao 26600, P.R. China
Tel: 86-532-8501-6568 Fax: 86-532-583-3793 e-mail: ljr@lsis.com.cn
- **LSIS NETHERLANDS Co.Ltd** » Qingdao, Netherlands
Address: 1st. Floor, Tupolevlaan 48, 1119NZ, Schiphol-Rijk, The Netherlands
Tel: 31-20-654-1420 Fax: 31-20-654-1429 e-mail: junshickp@lsis.biz
- **LSIS Gurgaon Office** » Gurgaon ,India
Address: 109 First Floor, Park Central, Sector-30, Gurgaon- 122 002, Haryana, India

