

S100

Variable Frequency Drive

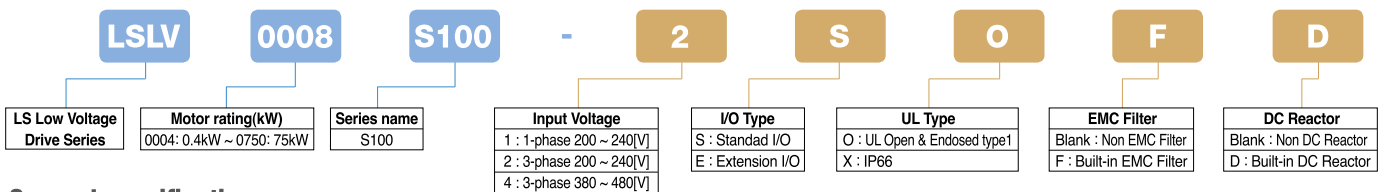
High Performance Standard VFD

1 phase 0.4~2.2kW(0.5~3HP), 200~240V
3 phase 0.4~15kW(0.5~20HP), 200~240V
3 phase 0.4~75kW(0.5~100HP), 380~480V



- Selectable V/f, Sensorless vector control
- Built-in EMC Filter
- Side by Side Installation
- Enhanced Size Competitiveness
- PLC Function(Simple Sequence Operation)
- Compliance with Open Field Networks
 - Profibus-DP, CANopen, EtherNet
- IP66 Enclosure (0.4~22kW)
- PM Sensorless Control
- P2P I/O Share Function
- Capacitor/Fan Life Cycle Management Function
- Smart Copier Option
(Flash Drop, Able to copy parameter and download drive main OS)

Model Number



General specification

Model number: SV □□□□ S100-1 □	0004	0008	0015	0022	Model number: SV □□□□ S100-2 □	0004	0008	0015	0022	0037	0040	0055	0075	0110	0150
Motor rating	[HP] 0.5	1	2	3	Motor rating	[HP] 0.5	1	2	3	5	5.5	7.5	10	15	20
	[kW] 0.4	0.75	1.5	2.2		[kW] 0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15
Output rating	Capacity [kVA] 1.0	1.9	3.0	4.2	Output rating	Capacity [kVA] 1.0	1.9	3	4.2	6.1	6.5	9.1	12.2	17.5	22.9
	Current [A] HD 2.5	5.0	8.0	11.0		Current [A] HD 2.5	5	8	11	16	17	24	32	46	60
	ND 3.1	6	9.6	12		ND 3.1	6	9.6	12	18	18	30	40	56	69
	Frequency [Hz] 0~400Hz (IM Sensorless:0~120[Hz])														
	Voltage [V] 3-phase 200~240V														
Input rating	Voltage [V] 1-phase 200 ~ 240VAC (-15%~+10%)														
	Frequency [Hz] 50 ~ 60Hz (±5%)														
	Current [A] HD 2.0	5.8	7.5	11.0	Input rating	Voltage [V] 3-phase 200 ~ 240VAC (-15%~+10%)									
	ND 3.9	7.3	10.8	13.9		Frequency [Hz] 50 ~ 60Hz (±5%)									
Weight	[kg] 0.9	1.3	1.5	2.0	Weight	[kg] 0.9	0.9	1.3	1.5	2.0	2.0	3.3	3.3	4.6	7.1

Model number: SV □□□□ S100-4 □	0004	0008	0015	0022	0037	0040	0055	0075	0110	0150	0185	0220	0300	0370	0450	0550	0750
Motor rating	[HP] 0.5	1	2	3	5	5.5	7.5	10	15	20	25	30	40	50	60	75	100
	[kW] 0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	75
Output rating	Capacity [kVA] 1.0	1.9	3.0	4.2	6.1	6.5	9.1	12.2	17.5	22.9	28.2	33.5	46	57	69	84	116
	Current [A] HD 1.25	2.5	4.0	5.5	8.0	9.0	12	16	24	30	39	45	61	75	91	110	152
	ND 1.56	3.1	5.0	6.9	10.0	10.0	16	23	30	38	44	58	75	91	107	142	469
	Frequency [Hz] 0~400Hz (IM Sensorless:0~120[Hz])																
	Voltage [V] 3-phase 380 ~ 480V																
Input rating	Voltage [V] 3-phase 380 ~ 480VAC (-15%~+10%)																
	Frequency [Hz] 50 ~ 60Hz (±5%)																
	Current [A] HD 1.8	3.2	4.4	6.0	10.4	11.0	14.4	22.0	26.6	35.6	41.6	56	69	85	103	143	
	ND 2.1	4.3	5.9	8.1	14.0	14.0	14.7	21.9	26.4	35.5	41.1	55.7	69	105	100	134	160
Weight	[kg] 0.9	0.9	1.3	1.5	2.0	2.0	3.3	3.3	4.6	4.8	7.5	7.5	26	35	35	43	43

Control spec	Control method	V/f, Slip compensation, Sensorless vector
	Speed reference resolution	Digital command: 0.01Hz / Analog command: 0.06Hz (Maximum frequency : 60Hz)
	Frequency accuracy	1% of the maximum output frequency
	V/f curve	Linear, Squared, User V/F
	Overload capacity	HD: 150% 1minute, ND: 120% 1minute
	Torque boost	Manual/Automatic torque boost
Operation	Keypad display	4 digit, 7 segment LED keypad
	Operation method	Keypad / Terminal / Communication option selectable
	Frequency setting	Analog: -10 ~ 10[V] / 0 ~ 10[V], 420[mA] / Digital: Keypad, Pulse train input
	Operation function	PID, Up-Down, 3-Wire, DC braking, Frequency limit, Frequency jump, 2nd function, Slip compensation, Anti reverse rotation, Automatic restart, Commercial power change, Auto-tuning, Flying start, Energy buffering operation, Power braking, Flux braking, Leakage reduction operation
Input signal	Multi-function terminal (7points)	NPN(Sink) / PNP(Source) selectable Function: Forward run, Reverse run, Reset, External trip, Emergency stop, Jog operation, Multi-step frequency-high, middle, low, Multi-step acceleration/deceleration-high, middle, low, DC braking at stop, 2nd motor select, Frequency up/down, 3-wire operation, Change into normal operation during PID operation, Change into main body operation during option operation, Analog command frequency fixing, Acceleration/deceleration stop etc. selectable
	Pulse train	0Hz~32Hz, Low level: 0~0.8V, High level: 3.5~12V
Output signal	Open collector terminal	Fault output and drive operation status output
	Multi-function relay	(N.O., N.C.) less than AC 250V 1A, less than DC30V 1A
	Analog output	0 to 10Vdc (4~20mA): Frequency, Output current, Output voltage, DC stage voltage etc. selectable
	Pulse train	Maximum 32kHz, 10~12[V]
Protection	Drive trip	Overcurrent / Overvoltage / Undervoltage / External trip / Ground fault current detection / Drive overheat / Motor overheat / Input-Output phase open / Overload protection / Light load protection / Communication error / Frequency command loss / Hardware fault / Cooling fan fault / Pre-PID motion failure / No motor trip / External brake trip / Option fault / Safety contact fault / Drive temperature sensor fault / Parameter write error / IO board fault
	Drive alarm	Stall prevention / Overload / Light load / Cooling fan fault / Frequency command loss / DB duty cycle / Rotor time constant tuning fault / Capacitor / Fan life time up
Enclosure		IP00, IP20, UL Type1, IP54, IP66
Option	Keypad	Graphic LCD keypad(S7)
	Communication	Profibus-DP, EtherNet-IP, Modbus-TCP, CANopen