

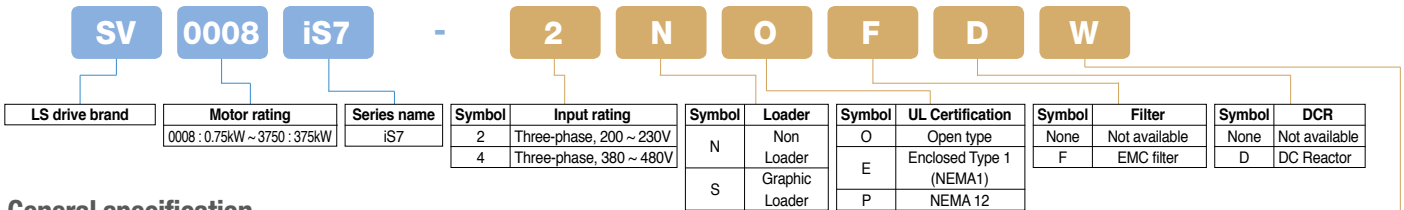


- Constant torque / Variable torque dual rating
- Selectable V/f, V/f PG, sensorless vector, sensed vector
- 150 MIPS(million instructions per second) high speed DSP
- High performances & functions:
 - Droop control (automatic torque balance)
 - KEB (Kinetic Energy Buffering) protection
 - Ride Through (LV Trip Delay) protection
 - Under Load Trip protection
 - 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(0.7522kW[1~30HP]) as built-in option
- Built-in RS485(LS Bus / Modbus RTU) communication
- Built-in Dynamic braking transistor (0.7522kW[1~30HP])
- Available EMC Filter & DC Reactor as built-in option
- EMC Filter(0.7522kW[1~30HP]) / DC Reactor(0.75160kW[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)



※ ABS Standard - Acquired (up to 90kW) / In Progress (above 90kW)
※ DNV Standard - Acquired

Model Number



General specification

Model number: SV □□□□ iS7-2 □	0008	0015	0022	0037	0055	0075	0110	0150	0185	0220	0300	0370	0450	0550	0750		
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	28.5	33.5	46	57	69	84	116
	Current (CT)	[A]	5	8	12	16	24	32	46	60	74	88	116	146	180	220	288
	Current (VT)	[A]	8	12	16	24	32	46	60	74	88	124	146	180	220	288	345
Input rating	Voltage	[V]	Three-phase 200 ~ 230V														
	Frequency	[Hz]	0.01 ~ 400Hz (Sensorless-1 control: 0.01~300Hz, Sensorless-2 or Sensed control: 0.01~120Hz)														
	Voltage	[V]	Three-phase 200 ~ 230V (-15% ~ +10%)														
	Frequency	[Hz]	50 ~ 60Hz (±5%)														
	Current (CT)	[A]	4.3	6.9	11.2	14.9	22.1	28.6	44.3	55.9	70.8	85.3	121	154	191	233	305
	Current (VT)	[A]	6.8	10.6	14.9	21.3	28.6	41.2	54.7	69.7	82.9	116.1	152	190	231	302	326

Model number: SV □□□□ iS7-4 □	0008	0015	0022	0037	0055	0075	0110	0150	0185	0220	0300	0370	0450	0550	0750	0900	1100	1320	1600	1850	2200	2800	3150	3750		
Motor rating	[HP]	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	180	225	250	300	375	420	500	
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	220	280	315	375	
Output rating	Capacity	[kVA]	1.9	3	4.5	6.1	9.1	12.2	17.5	22.9	29.7	34.3	46	57	69	84	116	139	170	201	248	286	329	416	467	557
	Current (CT)	[A]	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	370	432	547	613	731
	Current (VT)	[A]	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183	223	264	325	370	432	547	613	731	877
Input rating	Voltage	[V]	Three-phase 380 ~ 480V																							
	Frequency	[Hz]	0.01 ~ 400Hz (Sensorless-1 control: 0.01~300Hz, Sensorless-2 or Sensed control: 0.01~120Hz)																							
	Voltage	[V]	Three-phase 380 ~ 480V (-15% ~ +10%)																							
	Frequency	[Hz]	50 ~ 60Hz (±5%)																							
	Current (CT)	[A]	2.2	3.6	5.5	7.5	11.0	14.4	22.0	26.6	35.6	41.6	55.5	67.9	82.4	102.6	143.4	174.7	213.5	255.6	316.3	404	466	605	674	798
	Current (VT)	[A]	3.7	5.7	7.7	11.1	14.7	21.9	26.4	35.5	55.7	67.5	81.7	101.8	123	143.6	173.4	212.9	254.2	315.3	359.3	463	590	673	796	948

Control spec	Control method	V/f, V/f PG, Slip compensation, Sensorless-1 vector, Sensorless-2 vector, Sensed 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
Operation	Overload capacity	CT(Heavy duty): 150% for 1 minute, VT(Normal duty): 110% for 1 minute
	Torque boost	Auto & Manual torque boost
Input signal	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
Output signal	Operation function	PID control / Up-Down operation / 3-Wire operation / DC braking / Frequency limit / Second function / Slip compensation / Reverse rotation prevention / Auto restart / Drive By-pass / Auto-tuning / Flying star / Energy buffering / Power braking / Flux braking / Low leakage / MMC / Easy start
	Multi-function terminal (P1 ~ P8)	PNP / NPN selectable 8 points (programmable)
Protection	Multi-function relay	Fault output & drive status output (N.O., N.C.) Less than AC250V, 1A / Less than DC 30V 1A
	Multi-function open collector	DC24V (less than 50mA)
Enclosure	Multi-function terminal	0 to 10Vdc (less than 10mA): frequency / current / voltage / DC voltage selectable
	Option	IP00 (30~75kW, 200V/90~375kW, 400V), IP21 (0.75~22kW, 200V / 0.75~75kW, 400V), IP54 / NEMA12 (0.75~22kW, 200V/ 400; Optional)
Others	Board, Cable, Keypad	Graphic LCD keypad(IP21), Extension I/O, Isolation I/O, Encoder board, 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)