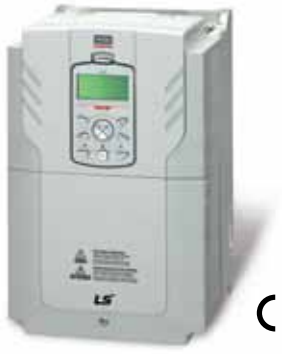
H100

Variable Frequency Drive

Fan and Pump VFD

3 phase 0.75~18.5kW(1.0~25HP), 200~240V
3 phase 0.75~90kW(1.0~120HP), 380~480V



- Specialized function for HVAC
  - Multi-motor control
  - Scheduling function (Time event: Real Time Clock)
  - Flow Compensation
  - Soft fill operation
  - Start Ramp & End Ramp
  - Dec Valve Ramp
  - Pump Clean
  - Load Tuning
  - Fire Mode
  - Energy-saving Display (Payback Counter)
  - Boost, Wake-up function
- V/f control
- Built-in BACnet communication
- LonWorks(Option)
- Keypad Exclusive for HVAC
- Built-in EMC filter/DC Reactor
- Side by Side Installation
- Heatsink out the back installation (Flange Option)
- Enhanced Size Competitiveness
- Capacitor/Fan Life Cycle Management Function
- Smart Copier Option (Able to copy parameter and download drive main OS)

Model Number

LSLV	0055	H100	-	4	C	O	F	N
LS Low Voltage Drive Series	Motor rating(kW) 0008: 0.75kW ~ 0900: 90kW	Series name H100		Input Voltage 2 : 3-phase 200~240[V] 4 : 3-phase 380~480[V]	Keypad Type C : LCD Keypad	UL Type O : UL Open E : UL Type1	EMC Filter F : Built-in EMC N : Non EMC	Reactor D : Built-in DC Reactor N : Non DC Reactor

General specification

Model number: LSLV □□□□ H100-2 □□□□		0008	0015	0022	0037	0055	0075	0110	0150	0185
Applied Motor	[HP]	1.0	2.0	3.0	5.0	7.5	10	15	20	25
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5
Rated Output	Rated Capacity [kVA]	1.9	3.0	4.5	6.1	8.4	11.4	16.0	21.3	26.3
	Rated Current	5	8	12	16	22	30	42	56	69
	Output Frequency	0~400Hz								
	Output Voltage [V]	3-phase 200~240V								
Rated Input	Service Voltage [V]	3-phase 200~240VAC (-15%~+10%)								
	Input Frequency	50 ~ 60Hz (±5%)								
	Rated Current [A]	4.9	8.4	12.9	17.5	23.7	32.7	46.4	62.3	77.2
Weight	[kg]	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.6	7.1

Model number: □□□□ H100-4 □□□□		0008	0015	0022	0037	0055	0075	0110	0150	0185	0220	0300	0370	0450	0550	0750	0900
Applied Motor	[HP]	1.0	2.0	3.0	5.0	7.5	10	15	20	25	30	40	50	60	75	100	120
	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
Rated Output	Rated Capacity [kVA]	1.9	3.0	4.5	6.1	9.1	12.2	18.3	23	29	34.3	46.5	57.1	69.4	82.0	108.2	128.8
	Rated Current	2.5	4	6	8	12	16	24	30	38	45	61	75	91	107	142	169
	Output Frequency	0~400Hz															
	Output Voltage [V]	3-phase 380~480V															
Rated Input	Service Voltage [V]	3-phase 380~480VAC (-15%~+10%)															
	Input Frequency	50 ~ 60Hz (±5%)															
	Rated Current [A]	2.4	4.2	6.5	8.7	12.2	17.5	26.5	33.4	42.5	50.7	69.1	69.3	84.6	100.1	133.6	160.0
Weight	[kg]	3.3	3.3	3.3	3.3	3.3	3.3	3.4	4.6	4.8	7.5	7.5	26	35	35	43	43

Control Spec	Control Method	V/F control, slip compensation	
	Frequency Set Resolution	Digital command: 0.01Hz Analog command: 0.06Hz (based on 60Hz)	
	Control Degree of Frequency	1% of the maximum output frequency	
	V/f curve	Liner, squared overload reduction and user V/F	
	Overload Capacity	Rated Current: 120% 1 minute	
	Torque Boost	Manual torque boost, automatic torque boost 1, automatic torque boost 2	
Operation	Operation Method	Optional: Keypad, terminal board or communication control	
	Frequency Setting	Analog mode: -10~10V, 0~10V, 0~20mA Digital mode: Keypad and pulse train input	
	Operation function	PID control, 3-Wire control, Frequency limitation, Secondary Functions, Forward/Reverse rotation prohibited, DC braking, Commercial power switching, Speed search, Power braking, Reduction of leakage, Up-Down control, DC braking Flux braking, Frequency pump, Slip compensation, Automatic restart, Automatic tuning, Energy buffering control, Energy-saving control	
Input signal	Multifunctional Terminal(7points)	Forward Operation, Reset, Emergency stop, Multi-step frequency – High/Mid/Low, DC braking during stop, Pre-Heat, Frequency increase, 3-Wire, Optional: Acceleration, deceleration or stop, MMC interlock, Reverse Operation, Pump cleaning, External trip, Jog control, Multi-step acceleration/deceleration-High/Mid/Low, Secondary motor selection, RTC(Time event function), Frequency decrease, Analog command frequency fixation, Switching to normal operation during PID operation	
	Pulse Train	0~3kHz, Low Level: 0~0.8V, High Level: 3.5~12V	
Output signal	Multifunctional Open Collector Terminal	Failure output & drive control status output:	DC 26V, 50mA or below
	Failure [Fault] Relay Terminal		N.O. : AC 250V, 5A or below, DC30V, 3A or below N.C. : AC 250V, 1A or below, DC30V, 1A or below
	Multifunctional Relay Terminal		AC 250V, 5A or below, DC30V, 5A or below
	Analog Output	0~12Vdc(0~20mA): Optional among frequency, output current, output voltage and DC voltage	
	Pulse train	Maximum 32kHz, 0~12V	
Protection	Trip	Over-current trip, Trip caused by external signals, ARM short-circuit current trip, Overheat trip, Pipe broken trip, Input open-phase trip Ground trip, Motor overheat trip, IO board connection trip, No Motor trip, Parameter Write trip, Emergency stop trip, Command loss trip, External memory error, CPU watchdog trip, Motor under-load trip, Overvoltage trip, Temperature sensor trip, Drive overheat, Option trip, Output open-phase trip, Drive overload trip, Fan trip, Low voltage trip during operation, Low voltage trip, Analog input error, Motor overload trip, Keypad command loss trip, Damper trip, Level Detect trip, All auxiliary motor failure trip, Pump clean failure (fault)	
	Warning	Command loss trip warning, overload warning, under-load warning, drive overload warning, fan operation warning, damping resistance brake percentage warning, capacitor life warning, pump clean warning, Fire Mode warning and LDT warning	
	Instant Power Interruption	Below 8 ms: Continuous operation [within the rated input voltage and rated output] 8 ms or above: Automatic restart operation	
Enclosure		IP20/UL Open(default), UL Enclosed Type 1(option)	
Option	Board	Extension I/O (available soon)	
	Communication	Lonworks	
Others		Built-in BACnet, Modbus-RTU(RS485), Metasys N2	