





Features



LS Electric H100 Drive

The LS Electric H100 drive is an advanced and versatile electric motor drive system that offers efficient and precise control over various industrial and commercial applications. Renowned for its reliability and performance, the H100 drive is designed to enhance the operation of electric motors, optimizing energy consumption while maintaining consistent output levels. Its adaptable design allows for seamless integration into a wide range of systems, including pumps, fans, conveyors, and more. With a user-friendly interface and robust features, the LS Electric H100 drive simplifies the management of motor-driven equipment, contributing to increased productivity and reduced operational costs across diverse sectors such as HVAC (heating, ventilation, and air-conditioning).

Multi Motor Control

MMC is incorporated when a single drive is used to control multiple motors in a pump system. It can control 1 main motor and 5 auxiliary motors.

Flow Compensation

Compensates for hydraulic loss that occurs when the length of pipes are long, adding compensation rate depending on the inverter output frequency.

Scheduling (Time Event: Real Time Clock)

RTC (Real Time Clock) is used so that selected functions are operable during the set time. (Possible to set different functions including Fx, Rx, multiple acceleration/deceleration time, multiple frequency, PID related function and pre-heat.)

Dec Valve Ramp

Prevention of pump and pipe damages caused by sudden pressure changes when pumps are stopped or a pump valve is closed - deceleration time can be set.

Start Ramp & End Ramp

Prevents pump damage by changing ramp using acceleration/deceleration time setting upon initial pump operation and stop.

Soft Fill Operation

Prevents pump damage caused by dramatic pressure changes during the initial operation.

Level Detection

When the drive is operated under frequency that is beyond the set frequency and source (voltage, current etc.) the values to be detected are above or below the user set values. It generates a trip or activates a relay for protective operation.

Detection of Broken Pipe

Upon PID operations, pipe damages or leakages are detected and a warning sign will be displayed or a trip will take place.

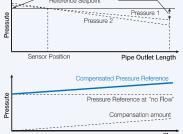
Under Load Protection

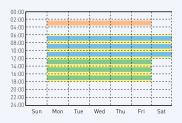
When running pumps, including Now Flow and Dry Pumps are set under a certain frequency, the drive issues warning function. When the trip is generated, Free-Run, stop after deceleration can be selected via parameters.

Pump Clean

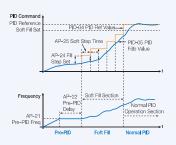
Upon pump operations, the efficiency of pumps may decline when foreign substances are stuck in an impeller. Pump clean removes the foreign substances to extend the pump life and reduce any losses.













Specifications



Control

Control Mode	V/F, Slip compensation, simple sensorless
Frequency Setting Resolution	Digital command: 0.01Hz Analog command: 0.06Hz/60Hz
Frequency Setting Level	1% of Max. Output frequency
V/F Pattern	Linear, Square-law torque reduction, user V/F
Overload Capacity	Rated current: 150% 1 minute
Torque Boost	Passive torque boost, Auto torque boost

Operation

Operation Mode	Keypad/Terminal/Communication
Frequency Setting	Analog: V10~10(V), 12(Advanced I/O) 0~20 (mA) Digital: Keypad
Operation Function	 Forward/Reverse rotation prevention Frequency jump Frequency limit DC brake Jog operation Up-down operation 3-wire operation Dwell operation Slip compensation PID control Energy saving operation Speed search Auto restart

Environment

Ambient Temperature*1)	-10~50°C, Ambient temperature under the condition of no ice or frost
Ambient Humidity	Relative humidity less than 95% RH (to avoid condensation forming)
Storage Temperature	-20~65°C (-4~149°F)
Surrounding Environment	Prevent contact with corrosive gases, inflammable gases, oil stains, dust and other pollutants (Pollution degree 2 environment)
Altitude/Oscillation	Below 1,000 meter, below 9.8 meter/sec2(1G)
Pressure	70~106kPa

^{*1) 0.1~0.2}kW products can be operated at a maximum of 50°C. However, the life span of the may be reduced when continuously with a full load when the ambient temperature exceeds 40°C

3-Phase 400Vac or 800Vdc



Drive Capacity

0.75kW	
1.5kW	
2.2kW	
3.7kW	
5.5 kW	
7.5 kW	
11 kW	
15 kW	
18.5 kW	
22 kW	
30 kW	
37 kW	
45 kW	
55 kW	
75 kW	
•	

LSLV0008H100-4C0FN
LSI VOOTSHTOOL/COEN

LSLV0022H100-4C0FN

LSLV0037H100-4C0FN

LSLV0055H100-4C0FN

LSLV0075H100-4C0FN

LSLV0110H100-4C0FN

LSLV0150H100-4C0FN

LSLV0185H100-4C0FN

LSLV0220H100-4C0FN

LSLV0300H100-4C0FN

LSLV0370H100-4C0FD

LSLV0450H100-4C0FD

LSLV0550H100-4C0FD

LSLV0750H100-4C0ND

LSLV0900H100-4COND

LSLV0750H100-4C0FD

LSLV0900H100-4C0FD

LSLV1100H100-4C0FD LSLV1320H100-4C0FD

LSLV1600H100-4C0FD

LSLV1850H100-4C0FD

LSLV2200H100-4C0FD

LSLV2500H100-4C0FD

LSLV3150H100-4C0FD LSLV3550H100-4C0FD

LSLV4000H100-4C0FD

LSLV5000H100-4C0FD

LSLV

0055

500 kW

H100

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Motor Canacity

Могог Сараспу		
0008-0.75kW	0185-18.5kW	
0015-1.5kW	0220-22kW	
0022-2.2kW	0300-30kW	
0037-3.7kW	0370-37kW	
0055-5.5kW	0450-45kW	
0075-7.5kW	0550-55kW	
0110-11kW	0750-75kW	

0150-15kW 5000-500kW



