H100

Fan & Pump Drive



- 3Ø 200V 0.75~18.5kW
- 3Ø 400V 0.75~500kW



Scan the QR code marked on the product cover for further details on this product.



Significant Energy Saving With LS Drive Solutions

This product is developed to build an environment-friendly system that realizes significant energy saving in the industrial field of fans/pumps and water treatment based on the leading drive solutions.



Safe System Control

For safe pump operation, the following functions are provided for users: Soft Fill; start and stop slope adjustment; valve deceleration time setting; multi-motor control; and scheduling operation.



Optimized for HVAC and Water Treatment

User-friendly functions for convenient use of fans/pumps such as pump clean, auxiliary motor PID compensation and load tuning.



Intended Use

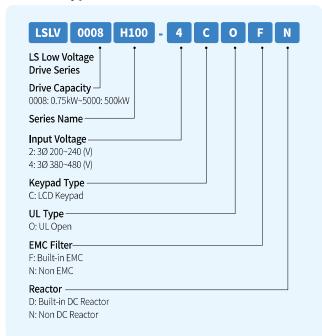
Applied to the following industries: building, metal, pulp/paper, coal mine, oil/gas and water treatment; (fan/pump, dryer)



Marine Certifications

ABS, BV, CCS, DNV/GL, KR, LR, NK, RINA, RS

Product Type & Model



Main Functions

Features	Description	Benefits
HVAC-only Function	Multi Motor Control, PID operation, flow (flux) compensation, scheduling operation	Optimized operation for HVAC load
Fan/Pump Protection Function	Protective functions include Soft Fill; valve deceleration time setting; pump clean; pipe breakage level detection; Underload Detection; lubrication Fire Mode	Support for optimized fan/pump system performance; extended life of machinery with load; and reduced maintenance cost
Built-in EMC Filter	400V 5.5~30kW, 110~500kW built-in(C3) 400V 37~500kW built-in option (C3) % With a filter, 75~90kW meets the EMC standard	Reduced electromagnetic noise and additional space and cost for parts unnecessary
Various Field Networks	RS-485 and BACnet network support for general HVAC system; Modbus-RTU, Metasys N2 and LonWorks options	Connectable with all widely-used field networks; simple maintenance of option cards and easier mounting
Reduced Product Size and Side-by- Side Installation	The product size is reduced up to 60% of its original size; simple replacement of cooling fans; installation span between products is about 2mm	Reduced installation area; and when installing multiple motors, the control panel size is significantly reduced
DC Reactor	400V 37~500kW products have a built-in DC reactor	Improved power factor; and THD reduction
Global Standard Requirement	UL Plenum-Rated 110~500kW; obtained a certificate of new UL 61800-5-1 (improved quality of insulation distance)	Product reliability enhanced as it meets the new global standard

Control

Control Mode	V/F, slip compensation	
Frequency Setting Resolution	Digital command: 0.01Hz	
Frequency Setting Resolution	Analogue command: 0.06Hz (based on 60Hz)	
Frequency Level	1% of the peak output frequency	
V/F Pattern	Linear, square-law torque reduction, user V/F	
Overload Capacity	5.5~90kW rated current: 120% 1min	
Overtoad Capacity	110~500kW rated current: 110% 1min	
Torque Boost	Passive torque boost; auto torque boost	

Operation

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Operation Mode		Keypad, Terminal Block, Communication Network options		
Frequency Setting		Analogue method: -10 ~ 10V, 0 ~ 10V, 0 ~ 20mA		
		Digital method: keypad, pulse train input		
Operation Function		PID control; 3-wire operation; frequency limit; secondary function; forward/backward rotation prohibited; power switch; speed search; power brake; leakage-reduced operation; up-down operation; DC braking; frequency jump; slip compensation; auto restart; auto tuning; energy buffering operation; flux braking; energy saving operation		
Input	Multifunctional Terminal (7Points)	PNP(Source), NPN(Sink) options According to the parameter setting of IN-65~71 codes, the following functions can be set.		
		Forward operation; reset; emergency trip; switching frequency – high/middle/low; DC braking upon stop; frequency increase; 3-wire operation; acceleration or deceleration stop; MMC interlock; backward operation; external trip; job operation; acceleration/deceleration by stage – high/middle/low; second motor option; frequency decline; analogue command fixed frequency; switching to the general operation during PID operation; Pre Heat; pump cleaning; RTC (time event function)		
	Pulse Train	0~32kHz, Low Level: 0~0.8V, High Level: 3.5~12V		
Output	Multifunctional Open Collector Terminal		DC26V, 50mA or below	
	Fault Relay Terminal	Fault output and drive operation mode output	N.O.: AC 250V, 2A or below; DC 30V, 3A or below N.C.: AC 250V, 1A or below; DC 30V, 1A or below	
	Multifunctional Relay Terminal		AC250V, 5A or below, DC30V, 5A or below	
	Analogue Output	0~12Vdc(0~20mA): Frequency, output current, output voltage, DC voltage options		
	Pulse Train	Up to 32kHz, 0~12V		