

M100

Micro Drive

new



- 1Ø 115V : 0.2~0.75kW
- 1Ø 200V Class 0.1~2.2kW

An Optimal Compact Drive That is Applicable to Small Unit Machinery, Fans/Pumps and Conveyors.

Space efficiency is increased with a compact product design, side-by-side installation and standard installation of Din Rail. Product reliability is improved with a built-in C2 EMC filter and application of a new UL standard. We offer two I/O types (standard type and advanced type), frequently-used parameter group, built-in potentiometer and parameter copier/remote keypad options. We ensure that users may easily install and use products.



Compact

M100 Drive is a small device that is cost-effective. Space efficiency has increased with side-by-side installation.



Convenient Use

Din Rail installation is standard for M100 Drive, and RJ45 Port is provided for an easier connection with peripheral devices.

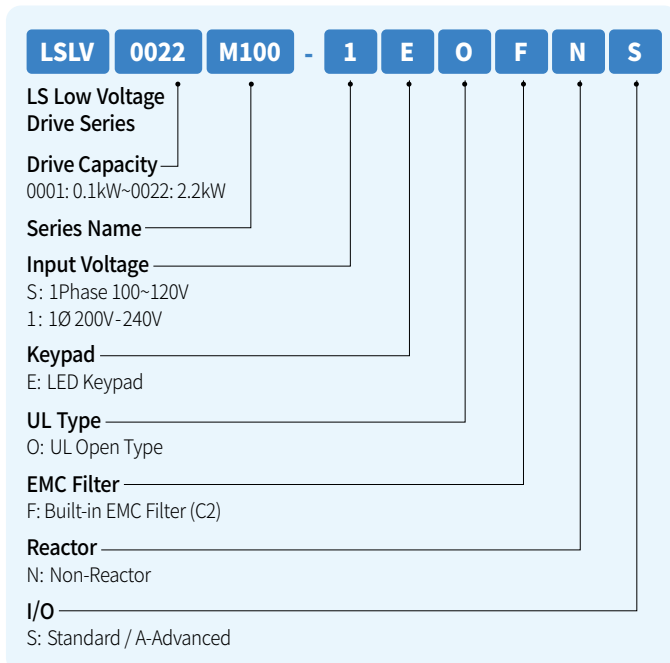


Intended Use

- Refrigerant compressor, air conditioner, refrigerator
- IAQ (Indoor Air Quality) industry sector
- Cargo terminal transfer line (Conveyor)
- Packaging machine transfer line (Conveyor)
- Unit machinery such as a lens grinder, spinning wheel and etc.



Product Type & Model



Main Functions

Features	Description	Benefits
Micro Size	85×135×100mm (W x H x D); Mini drive (based on 0.2kW)	Reduced area for product installation and increased convenience
EMC Filter	Filter that satisfies the following standard: EN61800-3 Category C2 (1st Environment)	No space and expenses for additional filter to reduce electromagnetic noise are needed
DIN Rail Installation	DIN rail and wall fixation to the rear and sides of the product with removal clips	Fast and easy product installation that lasts less than 5 minutes and maximized space efficiency through side-by-side installation
Quick Parameter Menu	Frequently-used useful parameters can be listed in the Quick Parameter group	Quick setting and improved operational convenience according to the customer's application type
Potentiometer	Standard potentiometer for analogue setting	Easy and flexible operation setting
Global Standard Requirement	Obtained CE certification and new UL 61800-5-1 standard	Ensures product reliability (Improved quality of insulation distance)

Control

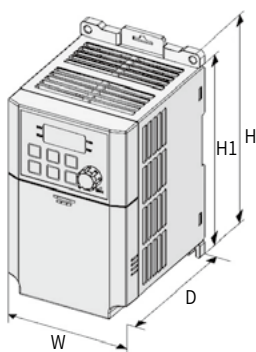
Control Mode	V/F, Slip compensation, Simple sensorless
Frequency Setting Resolution	Digital command: 0.01Hz Analog command: 0.06Hz/60Hz
Frequency Setting level	1% of Max. Output frequency
V/F Pattern	Linear, Square-law torque reduction, user V/F
Overload Capacity	Rated current: 150% 1min
Torque Boost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

Operation

Operation Mode	Keypad/Terminal/Communication	
Frequency Setting	Analog: V1 0~10[V], I2(Advanced I/O) 0~20[mA] Digital: Keypad	
Operation Function	<ul style="list-style-type: none"> • Forward/Reverse rotation prevention • Frequency jump • Frequency limit • DC brake • Jog operation • up-down operation • 3-wire operation 	<ul style="list-style-type: none"> • Dwell operation • Slip compensation • PID control • Energy saving operation • Speed search • Auto restart

1Ø 100~200V Class

Division			1 Phase 100~120V			1 Phase 200~240V					
			0002	0004	0008	0001	0002	0004	0008	0015	0022
Applied Motor	Heavy Duty	(HP)	0.25	0.5	1.0	0.125	0.25	0.5	1.0	2.0	3.0
		(kW)	0.2	0.4	0.75	0.1	0.2	0.4	0.75	1.5	2.2
Rated Output	Rated Capacity (kVA)		0.6	0.95	1.9	0.3	0.6	0.95	1.9	3.0	4.5
	Rated Current (A)		1.4	2.4	4.2	0.8	1.4	2.4	4.2	7.5	10.0
	Frequency (Hz)		0~400Hz			0~400Hz					
Voltage (V)			1Ø 200~240V			1Ø 100~120V					
Rated Input	Rated Current (A)		3.7	7.4	13.9	1.0	1.8	3.7	7.1	13.6	18.7
	Frequency (Hz)		50~60Hz (±5%)			50~60Hz (±5%)					
	Voltage (V)		1Ø 100-120Vac (-15% to +10%)			1 phase 200-240Vac (-15% to +10%)					
Cooling Type			Natural cooling			Natural cooling		Forced fan cooling			
Weight (kg)			1		1.36	0.66		1		1.45	



Product Dimension

Unit: mm (inches)

1 Phase 100~120V	W	H1	H	D	1 Phase 200~240V	W	H1	H	D
0002M100-S 0004M100-S	85 (3.34)	163 (6.42)	153 (6.02)	123 (4.84)	0001M100-1 0002M100-1	85 (3.34)	145 (5.70)	135 (5.31)	100 (3.93)
					0004M100-1 0008M100-1		163 (6.42)	153 (6.02)	123 (4.84)
0008M100-S	100 (3.94)	190 (7.48)	180 (7.08)	140 (5.51)	0015M100-1 0022M100-1	100 (3.94)	190 (7.48)	180 (7.08)	140 (5.51)