

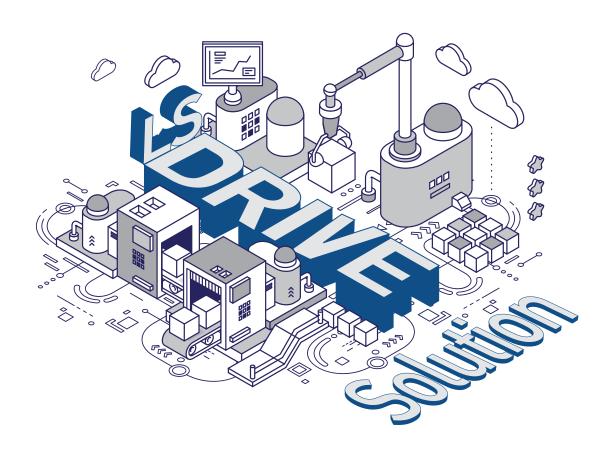


Low-Voltage Drive M100/iE5/iG5A/G100/S100/H100/iS7/iV5

LSIS

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Leading Innovation, Creating Tomorrow

Realization of innovative energy saving with LSIS Drive Solution.

40%

Supplies 40% of the drives distributed in Korea

LSIS Drive is a control component that brings about energy saving as it controls the rotation speed of motors with changing power frequency.

LSIS, a leading company that first introduced a universal drive in Korea, has both obtained a lot of certificates on high-efficiency drives and produces more than 40% of the drives supplied in Korea.

LSIS offers an optimal solution for high efficiency and energy saving in a wide range of industrial applications, ranging from iG5A which is ranked as the best-selling product (3 million devices) in Korea as a single product; a standard product that represents LSIS, iS7; and S100 and H100 that maximizes user-convenience. Additionally, it has a high-voltage drive that is capable of handling capacity up to 12.5MVA. It is carving out new spaces in the high value-added market such as power generation, shipbuilding, marine, cement, metal and power plant industries. With our solutions, LSIS was ranked top in KS-QEI (Korean Standard – Quality Excellence Index) in the area of customer satisfaction for 4 years in a row from 2013.

LSIS is taking a leap from the domestic leader in the drive market to a global leader and expanding the overseas market by developing differentiated products for each country and application and pursuing continuous activities for customer satisfaction.

Fulfilling the ultimate convenience with the optimal automation environment

LSIS provides our customers with the best solution with a configured automation environment, ranging from various unit machineries to large-scale process control.



For Purchase to Maintenance With our Experts

S 100

You may receive specialized support from purchase to maintenance with our global LS network organization. Our experts will accompany you for purchase, installation, test (trial) run and maintenance.

Total Solution

LSIS offers a total solution instead of merely selling devices. We provide an optimal solution for our customers with our product competitiveness and delivery performance in various areas, including fans, pumps, compressors, conveyors, winding machines and extruders. With LSIS drives, you will meet with a new experience of increased productivity, improved product quality and reduced maintenance cost.



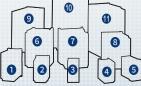
KS-QEI Ranked Top for 4 Consecutive Years (2013~2016)



LS Global Network

We have 96 special agents, 62 specialty stores, 22 authorized service depots and 4 tech-shops in Korea, offering quick and convenient services for our customers. We have a corporation all over the world, including China, Japan, Vietnam, U.S.A, U.A.E and the Netherlands, and have 224 partners in 77 countries.

- 1 General Drive G100
- ❷ Micro Drive M100
- 3 Standard Drive S100
- 4 Micro Drive iE5
- **⑤** Economical Drive iG5A
- 6 Fan/Pump-only Drive H100

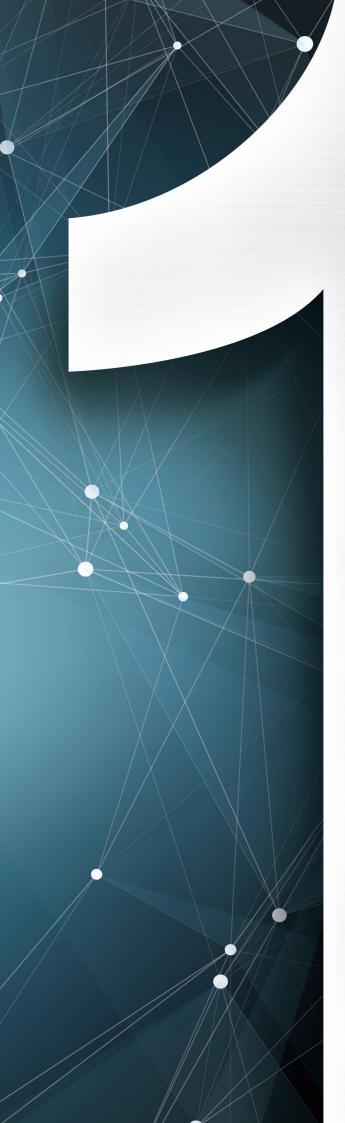


- Standard Drive S100 (NEMA4X IP66)
- 3 Fan/Pump-only Drive H100
- 10 Standard Drive S100
- 1 Vector Drive iV5

LSIS Drive at a Glance

LSIS Drive is characterized by its user-convenience interface, accurate and flexible control, and various functions. LSIS Drive Series with varied capacities and excellent function will be an optimal option for your company's competitiveness.





No.1 Drive in Korea! Why do you choose LSIS Drive?

Since 1983, starting drive business within the LG Group, we have constantly seen development and growth as we gained the honor of No.1 in the Korean market share and No.1 in customer satisfaction (KS-QEI) for 4 consecutive years.

LSIS gets abreast of global enterprises with technologies acquired through continuous R&D investment and experience and expertise in various industrial fields, and is recognized as a leading company in Korea.

LSIS Drive - Main Features



Energy Saving



Product Options



Easy to Buy



Convenient Installation & Test Run



Fast & Convenient A/S









LSIS Drive Comparison Table

	ive companison		LS .						
	Madalmana	M.	100	iee	icra				
	Model name	Standard I/O	Advanced I/O	iE5	iG5A				
Voltage & Capacity		1Ø 200~240V 0.1~2.2kW		1Ø 200~230V 0.1~0.4kW 3Ø 200~230V 0.1~0.4kW	1Ø 200~230V 0.4~1.5kW 3Ø 200~230V 0.4~22kW 3Ø 380~480V 0.4~22kW	3Ø 200 3Ø 400			
	V/F Control	Standar	d built-in	Standard mount type	Standard mount type	Stand			
Control Method	Sensor-less Vector		-	-	Standard mount type	Stand			
	Sensored Vector		-	-					
	Multifunction Terminal	3points(P1~P3)	5points(P1~P5)	5points(P1~P5)	8points(P1~P8)	5poi			
Input Terminal	Analogue Input (Current)		-	1point	1point(0~20mA)	1poir			
	Analogue Input (Voltage)	1point(0~10V)	1point(0~10V)	(0~10V or 0~20mA)	1point(0~10V)	1po			
	Relay Output	1point(3 port)	2points(5 port)	1point(3 port)	1point(3 port)	2poi			
Output	Open Collector Ooutput	1point(2 port)	-	-	1point(2 port)				
Terminal	Analogue Output	1point(0~10V)	1point(0~10V)	1point(0~10V)	1point(0~10V)	1po			
Enclosure Class		IP20		IP20	IP20	0.4~7.5kW: UL Typ			
Keypad		Fixed type(7-segment)		Fixed type(7-segment)	Fixed type(7-segment)	Fix (7-s			
Remote Cable		1m/2m	/3m /5m	-	2m /3m /5m	1m/2			
Brake Unit		Standard built	:-in (1.5~2.2kW)	-	Standard built-in (0.4~22kW)	Stanc (0.4			
EMC Filter		Standard built	:-in (0.4~2.2kW)	-	Standard built-in (400V class 0.4~7.5kW)	Stanc (0.			
DC Reactor			-	-					
Communications		RS485 (Advanced I/O Standard built-in)		Modbus RTU(option)	RS-485, Modbus(Standard built-in)	Mod (Stanc CANope EtherN			
Cooling Sys	stem								
Ambient Temperature					-10°C~50°C(2.5% /°C c	urrent derati			
Ambient Humidity						Relativ			
Storage Temperature									
Surrounding Environment		Without corrosive							
Altitude					1,000m above sea level (From 1,000m			
Vibration									
Ambient Ai	r Pressure								
Protective	Alarm	Stall prevention, over							
Function	Trip	Overvoltage,	overcurrent, undervolt	age, external trip, grounding o	current detection, drive overhe	at, electric n			

Note 1) In case of 30~75kW, AO 1point(0~10V) is additionally provided.











C100	S1	.00	11100	:67	3.45		
G100	Standard I/O	Mutiple I/O	H100	iS7	iV5		
V 0.4~7.5kW V 0.4~7.5kW	30/200~240\/ 0.4~15k\/		3Ø 200~240V 5.5~18.5kW 3Ø 380~480V 5.5~500kW	3Ø 200V 0.75~75kW 3Ø 400V 0.75~375kW	3Ø 200~230V 2.2~37kW 3Ø 380~480V 2.2~800kW DC Input type 380~480V 5.5~500kW		
ard built-in	Standar	d built-in	Standard built-in	Standard built-in	-		
ard built-in	Standar	d built-in	-	Standard built-in	Standard built-in		
-		-	-	Option	Standard built-in		
nts(P1~P5)	5points(P1~P5)	7points(P1~P7)	7points(P1~P7)	8points(P1~P8)	11points(FX, RX, BX, RST, P1~P7)		
t(0~20mA)	1point(0~10V or	1point(0~10V	1point(0~20mA)	1point(0~20mA)	3points (2points : 0~10V, 020mA,		
nt(0~10V)	0~20mA)	or 0~20mA)	1point(0~10V)	1point(0~10V, -10V~+10V)	1point:0~10V)		
nts(5 port)	1point(3 port)	1point(3 port)	5points	2points(5 port)	3points (7 port)		
-	1point(2 port)	1point(2 port)	1point	1point(2 port)	1point (2 port)		
nt(1 port)	1point(0~10V or 0~20mA) ^{Note 1)}	1point(0~10V or 0~20mA)	1point(0~10V or 0~20mA)	2points(0~10V, 0~20mA)	2points (0~10V, -10~10V)		
IP20 (standard), e 1 (option)	UL Type	20 (standard), 1 (option) P66 (option)	5.5-500 kW: IP20(standard) 5.5-90kW: UL Type 1(option)	200V class 0.75~22kW, 400V class 0.75~75kW: IP21 200V class 30~75kW, 400V class 90~375kW: IP00 0.75~22kW: IP54	2.2~22kW (Mold cover), 280 ~ 800kW (Metal cover) : IP00 30~220kW (Metal cover) : IP20		
ed type egment)	Removal type	gment): 0.4~22kW (LCD graphic) : '5kW	Removal type	Removal type	Removal type		
m/3m/5m	1m/2m	/3m/5m	1m/2m/3m/5m	2m /3m	-		
ard built-in ~7.5kW)		t-in (0.4~22kW) 30-75kW)	Standard built-in (0.75~30kW)	Standard built-in (0.75~22kW)	Standard built-in (2.2~22kW)		
ard built-in ~7.5kW)	Option (Single phase 200V 0.4~2.2kW, 400V 0.4~4kW) Standard built-in (400V class 5.5kW~22kW) Built-in option (30-75kW)		Standard built-in (5.5~30kW) Built-in option (37~90kW)	Built-in option (0.75~22kW)	-		
-		-	Standard built-in (37~90kW)	Built-in option (0.75~220kW)	Standard built-in (800kW)		
lbus RTU ard built-in) n Profibus-DP et/IP(option)	RS485(Standard built-in) Modbus TCP, EtherCAT, EtherNet/IP, PROFInet, Profibus-DP, CANopen(option)		Modbus RTU, Metasys N2, BACnet (standard built-in) Lonworks (option)	RS485 (Standard built-in) DeviceNet, Profibus-DP, Modbus TCP, R-Net, F-net, LonWorks, CC Link-IE, CANopen (option), EtherNet/IP, Profinet, RAPIEnet	RS485, Modbus RTU, DeviceNet, Profibus-DP, CC Link (option)		
Force	ed air cooling by fan				ı		

Forced air cooling by fan

ng at 40°C or above 75% of the rated current operable at 50°C); without any ice or frost

e humidity 95% RH or below (without any dew formation)

-20°C ~ 65°C

gas, flammable gas, oil residue and dust at the indoor environment

or more, voltage/output current derating by 1% for every 100m elevation; up to 4,000m)

9.8m/sec2(1.0G) or below

70 ~ 106kPa

oad, light load, fan failure, keypad command loss, speed command loss

otor overheat, I/O phase open, overload protection, communication error, frequency command loss, hardware failure, cooling fan failure, No Motor trip and etc.

Guide to LSIS Drive Options

The table below is to guide you in searching for products that are appropriate for your business and load among a wide range of LSIS drive products. For further information, please contact LSIS.

	Application		Ту	ре			eed que				Series		
	Application	Friction Load	Gravity Load	Fluid Load	Inertia Load	СТ	VT		G100	S100	H100	iS7	iV5
	Fan		2000	•	Loud		•						
	Pump			•			•						
/AC Refrigerator	Compressor			•		•							
	Fan			•			•						
	Pump			•			•						
	Compressor			•		•							
	Conveyor	•				•							
_	Press				•	•							
	Winder (Drawing Machine)				•	•							
25//	Winder (Stranding Machine)				•	•							
etals & Materials	Hoist (Hoist)		•		_	•							
Management	Hoist (Trolley, Gantry)	•				•							
	Synchronized Position Control												
	(Grinder)	•			•	•							
	Synchronized Position Control												
	(Automatic Lathe)	•			•	•							
	E/L (High Speed)		•			•							
• ~	E/L (Low Speed)		•			•							
	Synchronized Position Control												
८/ ₹	(Door Open/Close)	•				•							
Elevator &	Escalator	•				•							
Escalator	Multistory Parking Space		•			•							
	Fan		_	•			•						
	Pump			•									
				•		•	•						
	Compressor			_		_							
-8	Spinning Machine (Threading & Spinning)				•	•							
	Winder (Weaving)				•	•							
	Winder (Weaving) Winder (Knitting)				•	•							
				•	•								
Textiles	Washing & Drying (Washer & Dryer)			•	•	•							
	Printing												
	Extruder		_			•							
	Hoist (Hoist)		•			•							
	Hoist (Trolley, Gantry)	•				•							
	Fan / Blower			•			•						
	Pump			•			•						
A.	Compressor			•		•							
المريز الم	Conveyor	•				•							
<u>(8)</u>	Mixer			•		•							
••••	Extruder	•				•							
lastic & Rubber	Screw & Vibration Feeder				•	•							
	Injection Molding	•				•							
	Winder				•	•							
	Hoist (Hoist)		•			•							
	Hoist (Gantry, Trolley)					•							
	Fan			•			•						
	Pump			•			•						
	Compressor			•		•		İ					
	Conveyor	•				•							
	Hoist (Hoist)		•			•							
Energy	Hoist (Gantry, Trolley)	-				•							
Lifelby	High-capacity Fan & Pump						T .						
	(Power Generation Industry)		1	•			•						

Description	Reason(s) for Choosing the Product
It refers to a HVAC system related to heating, ventilation and air-conditioning, and its primary purpose is to control the building or factory's temperature and humidity. A refrigerator requires diverse analogue inputs and contact outputs for constant temperature control.	 H100 As a drive exclusive for HVAC, it has exclusive functions applied to Fan/Pump, including a reservation function, advanced PID, Master/Follower and so forth. iS7 extended IO may be used for multifunction and analogue I/O extension.
Metals are composed of ID/FD Fan/Pump for cooling from the stages of transferring raw materials (conveyor or hoist), casting and winding.	● iS7 / iV5 / iG5A / iC5 Unlike other load types, the load of metals is larger, heavier and greater in tension. Thus, products that are equipped with sensor-less and sensored vector control as well as helper roll and winding control are needed. Hoist is used for load transfer also needs products that are easier to ensure torque.
It is a power device used to transport persons or cargo, which consists of a (ultra) high-speed unit for passengers, (medium) low-speed unit for passengers, a unit for view; for hospital; for cargo; for vehicles and dumbwaiter. It requires a high noise level.	● iV5 /iV5L /iS7 Sensor-less and sensored vector mode for powerful torque control and E/L-only S/W are provided as a default. In case of iV5, optimal drive is realized with an exclusive position control-based function.
There are a wide range of processes, including threading, drawing, yarn dyeing, warping, beaming, weaving (loom), inspecting gray goods, refining, reducing, washing, dyeing and stenter process, so various loads ranging from the low-end load to high-end load of winders and twisters exist. Corrosion resistance and waterproof are required as there are a lot of high temperature and humidity environments.	 For VT load: iP5A / H100 For CT load: iS7 / iV5 / iV5L For low-capacity load: S100 / iG5A Products that meet various process features may be chosen. In particular, iS7, S100 built-in with S/W exclusive for winders uses WEB PID for precise winding. All products are applied with PCB Conformal Coating.
There are processes such as injection molding to create a model by melting raw materials or winding the produced artificial thread and printed films. A part of injection molding is mixed with servo system for use, and it requires an accurate position control or torque control.	● iS7 / S100 / iG5A iS7 installed with S/W exclusive for winders along with synchronization and position control is one of the representative products. S100 built-in with S/W only for winders is also used. It is recommended to use iG5A or equivalent for small-capacity helper roll and conveyor.
HVAC load is the major part of Energy, and the load of ID/FD Fan/Pump applied for power generation industry and the load that goes along with the high efficiency system in the local environment are the main components.	● iP5A / H100 / iS7 We recommend inverter products that have obtained a certificate of high efficiency. iS7 may be used to partially respond to CT load. Without a separate controller, a built-in PID is capable of controlling pressure and flow.

Guide to LSIS Drive Options

	Application			Type			eed que						
	Application		Gravity	Fluid	Inertia	СТ	VT	M100			H100	iS7	iV5
	_	Load	Load	Load	Load	<u> </u>		111200	0100	3100	11200		110
	Fan			•			•						
	Pump			•		_	•						
严	Compressor	•		•		•							
	Conveyor Winch (Hoist)	•	•			•							
Marin		•	•										
Warm	Winch (Gantry, Trolley) Hoist (Hoist)	•	•			•							
	Hoist (Gantry, Trolley)		•			•							
				•		_	•						
	Fan Pump			•			•						
	Compressor			•		•							
	Conveyor	•				•							
	Mixer	_		•		•							
(A) =	Extruder	•		•		•							
(0//)	Packing Machine	_				_							
ood & Beverage	(Synchronization, Position Control)	•				•							
ou de De Verage	Cutting Machine												
	(Synchronization, Position Control)	•				•							
	Labeling Machine												
	(Synchronization, Position Control)	•				•							
	Hoist (Hoist)		•			•							
	Hoist (Gantry, Trolley)					•							
	Fan			•		_	•						
	Agitator Pump			•			•						
	Compressor			•		•							
	Winder (Fixed Contact Control)				•	•							
	Roller Drum				•	•							
\sim	Drying Machine	•					•						
Pulp & Paper	Coating Machine	•				•							
	Slitter	•				•							
	Hoist (Hoist)		•			•							
	Hoist (Gantry, Trolley)					•							
	Fan			•			•						
	Pump			•			•						
	Compressor			•		•							
Пип	Conveyor	•				•							
} ∈ @	Crusher / Drill Machine	•				•							
	Excavators												
Mining	Crane (Hoist)		•			•							
	Crane					_							
	(Gantry/Trolley, Rotating/Turning)	•				•							
	Hoist (Hoist)		•			•							
	Hoist (Gantry, Trolley)					•							
	Fan (Blower)			•			•						
₽V∏	Oil & Rod Pump			•			•						
 	Compressor			•		•							
*****	Conveyor	•				•							
& Gas Chemical	Mixer			•		•							
	Extruder					•							
	Crane (Hoist)		•										
	Crane	•				•							
	(Gantry/Trolley, Rotating/Turning)												
Ø 3	Hoist (Hoist)		•			•							
Crane & Hoist	Hoist (Gantry, Trolley)					•							
	Automatic Warehouse (Lift)		•			•							
	Automatic Garage (Gantry)	•				•							
/ 2.7.5 /1	Fan			•									
///////	Pump			•			•						
	Compressor			•		•	•						
	Mixer			•		•							

Description	Reason(s) for Choosing the Product
When the distributed control system was introduced in 1990s, automated processes were realized in various systems, including automatic and power control of generators; ballast and pump motors for cargo; and valve control. As IMO environmental regulation came into effect, the needs for auto control and energy efficiency have been accelerated. The classification system such as ABS (USA) /BV (France) /DNV (Norway) /LR (USA) /RINA (Italy) is required.	●iS7 / iP5A These products that have obtained the certificate of classification are included in a lineup, which are gradually applied in the shipping industry. Based on the classification, the products have satisfied the power and environmental requirements necessary for ship installation. Also, there are reference cases of applying the products for merchant ships and marine cranes.
High-performance IP products with a high-pressure jet function for washing are required for food sanitation and contamination prevention. Furthermore, customers prefer Decentralized Drives and there is growing demand for drives with functions such as accurate positioning and synchronizing of packing machines, labeling machines and conveyors.	● iS7(IP54) / S100(IP66) General load is applicable to ensure water and dust resistance.
In general, it is a load with smaller tension when compared with steel so precise control and fast responsiveness are needed. In most cases, it is fabricated as a System Drive (AFE + DC-type inverter). Wood or raw materials that have completed primary operation are chemically treated to produce paper, artificial fiber and etc.	● iS7 / iV5(DC Input Type) DC input-type inverter products or any product with a DC input function may be applied.
Anti-environment properties such as explosion, dust and water resistance are needed, and higher reliability with application of a long-distance line is required. In case of excavators operated underground, the drive with higher performance and reliability to respond to high-torque, heavy duty load is required.	● iS7 The product was applied to cases such as subway construction, submarine tunnel and underground line construction, and high-powered devices with torque-synchronized operation are applicable. With our experiences in drive application to various power and user environmental settings, air-conditioning, pump and hoist units are applicable.
High-capacity power and long-distance line application are needed when applied to large plants. The product should be highly reliable when it comes to risk including fire accidents as large-capacity products are applied for air-conditioning, pump and production.	● iS7 / H100 We have reference cases in the field of petrochemical and oil refining industry, and we offer various options and large-capacity products with the Drive System-applied technologies.
3 basic operation modes include Hoist, Gantry and Trolley, and there is an additional function, Boom up/down, for marine cranes. Although features required for inverters differ according to the operation mode, they generally transport heavy cargo. Thus, it is recommended to use sensor-less and sensored vector mode.	• iS7 / iV5 / S100 We recommend a lineup of products with sensor-less and sensored vector control functions that make it easier to ensure torque as heavy load is expected.
Harmful gases generated upon sewage treatment should be prevented (coating), and it is HVAC App that generally requires a low level of THD. (AFE, Low Harmonic Drive)	● iP5A / H100 A lineup of inverter products exclusively for HVAC system can be applied to all water treatment industry.

M100

Micro Drive



• 1Ø 200~240V 0.1~2.2kW



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

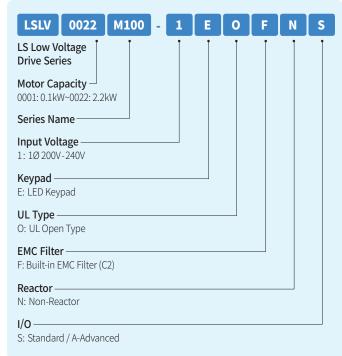
Din Rail installation is standard for M100 Drive, and RJ45 Port is provided for an easier connection with peripheral devices.



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.









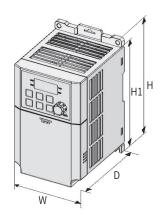


Main Functions

Features	Description	Benefits		
Micro Size	Micro Size $ 85 \times 135 \times 100 \text{mm (W x H x D)}; $ Mini drive (based on 0.2kW)			
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)		

I/O Standard

LSLV	□□□ M100-E	OFN□	0001	0002	0004	0008	0015	0022		
Applied	(HP)		0.125	0.25	0.5	1.0	2.0	3.0		
Motor	Heavy Load	(kW)	0.1	0.2	0.4	0.75	1.5	2.2		
	Rated Capaci	ty (kVA)	0.3	0.6	0.95	1.9	3.0	4.5		
Output	Rated Current (A)		0.8	1.4	2.4	4.2	7.5	10.0		
Rating	Rated Freque	ency (Hz)			0~40	00Hz				
	Output Voltag	ge (V)			3Ø 200)~240V	40V			
	Operational \	/oltage (V)		1Ø 200~240VAC (-15%~+10%)						
Input Rating	Input Freque	ncy (Hz)			50~60H	z (±5%)				
Rating	Rated Curren	t (A)	1.0	1.8	3.7	7.1	13.6	18.7		
	Cooling System			cooling	Forced air cooling					
Weight (kg)			0.	66	3	.3	1.45			



Product Dimension

Unit: mm (inches)

Model	W	H1	н	D
LSLV0001M100-1 LSLV0002M100-1	85 (3.34)	135 (5.31)	145 (5.70)	100 (3.93)
LSLV0004M100-1 LSLV0008M100-1	05 (5.54)	153 (6.02)	163 (6.42)	123 (4.84)
LSLV0015M100-1 LSLV0022M100-1	100 (3.94)	180 (7.08)	190 (7.48)	140 (5.51)

Micro Drive



- •1Ø 200V 0.1~0.4kW
- •3Ø 200V 0.1~0.4kW











iE5, Compact Size With Powerful Performance

It is our smallest drive that offers an optimal solution for controlling small-capacity motors.

Although compact in size, it demonstrates powerful performance with various functions.



Mini Drive Maximizing Space Efficiency

The drive's compact size ($68mm \times 128mm \times 85mm(W \times H \times D)$) has increased its space efficiency.



Easy Operation Method

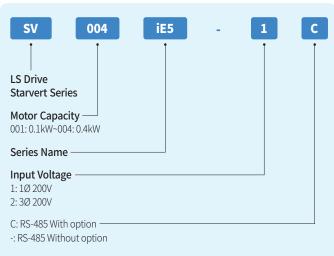
6 keys in total are used for operation and volume resistance method is applied. Less than 100 parameters are available, which improves operational convenience.



Intended Use

- Treadmill
- Vibratory motion machine
- Packaging machine
- Small conveyor

Product Type & Model



Main Functions

Features	Description	Benefits	
Micro Size	Micro drive's size: 68mm x 85mm x 128mm (W x D x H)	Maximized installation convenience and space efficiency	
Easy and Convenient Operation	With 6 keys based on volume resistance, less than 100 parameters are quickly operable	Easy and fast operation with various functions suitable for small machinery operation	
Communication Interface	Modbus communication support (Option)	Remote controlling with PLC and other controllers	
Global Standard Requirement	Obtained CE, UL and ROHS certification	Reliability guaranteed and eco-friendly drive	

Control

Control Mode	V/F control
Frequency Setting Resolution	Digital command: 0.01Hz; analogue command: 0.06Hz (peak frequency: 60Hz)
Frequency Setting Level	Digital command operation: 0.01% of the peak output frequency; Analogue command operation: 0.1% of the peak output frequency
V/F Pattern	Linear, square-law torque reduction, user V/F
Overload Tolerance	150% 1min
Torque Boost	Passive torque boost, auto torque boost

Operation

Operat	tion Mode	Operation mode is optional among Loader / Terminal Block / Communication Network				
Freque	ency Setting	Analogue method: 0~10 (V), 0~20 (mA), loader volume, digital method: loader				
Operat	tion Function	PID control, up-down operation, 3-wire operation				
		NPN / PNP optional				
Input	Multifunctional Terminal (5points) P1, P2, P3, P4, P5	Function: Forward operation; backward operation; e switching frequency -DC brake through up, down an operation; external trip A, B; switching to general operation; acceleration/deceleration stop option; de	d stop; frequency increase; frequency decline; 3-wire eration from PI operation; analogue command fixed			
	Multifunctional Relay Terminal	Fault output and drive operation mode output	(N.O., N.C.) AC250V 0.3A or below, DC30V 1A or below			
	Analogue Output	0 ~ 10 Vdc (10mA or below): Selectable among frequency, current, voltage and DC voltage				

I/O Standarda

SV□□□iE5-□]	001-1	002-1	004-1	001-2	002-2	004-2	
Applied	(HP)		1/8	1/4	1/2	1/8	1/4	1/2	
Applied	Motor ^{Note 1)}	(kW)	0.1	0.2	0.4	0.1	0.2	0.4	
	Rated Capacity (kVA) Note 2)		0.3	0.6	0.95	0.3	0.6	1.14	
Output	Rated Currer	nt (A)	0.8	1.4	2.5	0.8	1.6	3.0	
Rating	Output Freq	uency (Hz)	0~200 (Hz)						
	Output Volta	ige (V)	3Ø 200~230V Note 3)						
	Operational	Voltage (V)	1Ø 200~240VAC (-15% ~ +10%) 3Ø 200~230VAC (±10%)						
Input Rating	Input Frequency (Hz)				50~60H	z (±5%)			
Tuesting	Rated Currer	nt (A)	2.0	3.5	5.5	1.2	2.0	3.5	

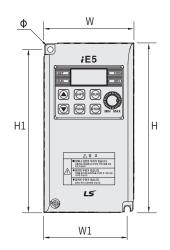
Note 1) The maximum applicable capacity of 4-pole OTIS standard motor is marked for the Applied Motor.

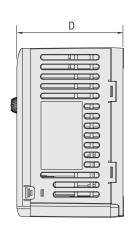
Note 2) The rated capacity is based on 220V.

Note 3) The maximum power voltage does not exceed the source voltage. The output voltage can be set within the source (power supply) voltage.

Micro Drive

Dimension





Unit: mm (inches)

Model	W	Н	D	H1	W1	Ø
SV0001iE5-1	68 (2.67)	128 (5.03)	85 (3.34)	124 (4.88)	64 (2.51)	4.2 (0.16)
SV0002iE5-1	68 (2.67)	128 (5.03)	85 (3.34)	124 (4.88)	64 (2.51)	4.2 (0.16)
SV0004iE5-1	68 (2.67)	128 (5.03)	115 (4.52)	124 (4.88)	64 (2.51)	4.2 (0.16)
SV0001iE5-2	68 (2.67)	128 (5.03)	85 (3.34)	124 (4.88)	64 (2.51)	4.2 (0.16)
SV0002iE5-2	68 (2.67)	128 (5.03)	85 (3.34)	124 (4.88)	64 (2.51)	4.2 (0.16)
SV0004iE5-2	68 (2.67)	128 (5.03)	115 (4.52)	124 (4.88)	64 (2.51)	4.2 (0.16)

Note) Use M4 screws to fix the product to panels.

iG5A

Economical Drive



- •1Ø 200V 0.4~1.5kW
- •3Ø 200V 0.4~22kW
- •3Ø 400V 0.4~22kW











iG5A, a Compact-sized, Powerful drive

It is one of the representative LSIS drives, which is compact in size with high-powered sensor-less vector.



Excellent Torque Performance at Low Speed With Sensor-less Vector Control

It shows powerful torque performance with outstanding motor control capability through sensor-less vector control.



User-centered Operation and Maintenance Convenience

It is a cutting-edge drive with a useful 4-way key for easier parameter setting. Maintenance is taken into consideration with a self-diagnosis function and cooling fan On/Off function.

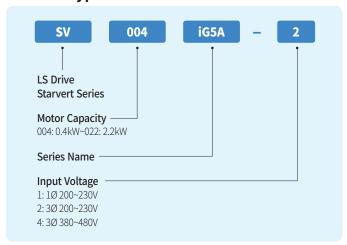


Intended Use

Applied to the following industries: metal, elevator/Escalator, textile machinery, plastic/rubber, energy, shipping, food and beverage, pulp/paper, coal mine and water treatment

- Hoist (hoist, trolley, gantry)
- Fan/Pump
- Compressor
- General crane
- Conveyor

Product Type & Model



Main Functions

Features	Description	Benefits
Built-in DB Circuit	Braking resistor can be accessed with a built-in DB circuit	Slowing down time can be shortened easily at the load with high regenerative power, improved productivity and controllability
Various Programming Function	Sensor-less vector control, improved PID function, Sleep & Wake up function and etc.	Although small in size, the drive demonstrates high power and functions
Protective Function	Ground protection upon operation, leakage reduction PWM algorithm and KEB B	Operable under highly humid environmental setting; automatic load cutoff upon power failure to protect the customer's equipment
Externally Installed Loader (Loader)	Optional loader for installation outside the panel	Drive monitoring and control outside the panel; same parameters can be copied to several drives
Cooling Fan Control	Cooling fan operation On/Off control and easily replaceable without removing the drive cover	Increased fan life by controlling the cooling fan according to the internal temperature and easier maintenance

Control

Control Mode		V/F control, sensor-less vector control	
Frequency Sett	ting Resolution	Digital command: 0.01Hz; analogue command: 0.06Hz/60Hz	
Frequency Setting level		Digital: 0.01% of the peak output frequency Analogue: 0.1% of the peak output frequency	
V/F Pattern		Linear, square-law torque reduction, user V/F	
Overload Toler	ance	150% 1min	
Torque Boost		Passive torque boost (0 ~ 15% setting); auto torque boost	
Regenerative	Maximum Braking	20% Note1)	
Braking Torque Time/Usage		150%, when using a separately-installed braking resistor Note2)	

Note 1) Regenerative braking torque 20% refers to the mean braking torque resulting from motor loss upon decelerated pause.

Note 2) Please refer to our Manual for further details on rating of the braking resistor.

Operation

Opera	tion Mode	Loader / Terminal Block / Communication Network	/ Remote Loader options		
Frequency Setting Analogue method: 0 ~ 10 (V), -10 ~ 10 (V), 0 ~ 20 (mA); digital method: loader					
Operation Function PID control, up-down operation, 3-wire operation					
		NPN / PNP option			
Input Terminal (8points) P1~P8 Function: Forward operation; backward operation; emergency trip; reset upon trouble; jog operation; packward operation and deceleration by stage – high / middle / low; acceleration and deceleration by stage – high / middle low; DC braking upon pause; second motor option; up-down operation (frequency increase/decl 3-wire operation; external trip signal input (A/B contact); self-diagnosis; switching to general operation; producing PID operation; 2nd Source; analogue command fixed frequency; acceleration and deceleration are producing PID operation; 2nd Source; analogue command fixed frequency; acceleration and deceleration and deceleration by stage – high / middle low; DC braking upon pause; second motor option; up-down operation (frequency increase/decl 3-wire operation; 2nd Source; analogue command fixed frequency; acceleration and deceleration and deceleration and deceleration and deceleration are produced by the produced produced by t					
	Multifunctional, Open Collector Terminal	Fault output and drive energtion made output	DC 24V 50mA or below		
Output	Multifunctional Relay Terminal	Fault output and drive operation mode output	(N.O.,N.C.) AC 250V 0.3A or below, DC 30V 1A or below		
Analogue Output		$0 \sim 10$ Vdc (10mA or below): Selectable among outputive DC voltage	out frequency, output current, output voltage and		

iG5A

Economical Drive

1Ø 200V Class

SV□	□	004	008	015			
Applied Motor Note 1)	(HP)	0.5	1	2			
Applied Motor Mac 27	(kW)	0.4	0.75	1.5			
	Rated Capacity (kVA) Note 2)	0.95	1.9	3.0			
Outrout Batin	Rated Current (A) Note 3)	2.5	5	8			
Output Rating	Peak Output Frequency (Hz)	400 (Hz) Note 4)					
	Peak Output Voltage (V)	3Ø 200~230V Note 5)					
Innut Dating	Rated Voltage (V)		1Ø 200~230 VAC (+10%, -15%)				
Input Rating	Rated Frequency (Hz)	50~60 (Hz) (±5%)					
Cooling Method			Forced air cooling				
Drive Weight (kg	g)	0.77	1.12	1.84			

3Ø 200V Class

SV□	□□ iG5A-2 □	004	008	015	022	037	040	055	075	110	150	185	220
Applied Makey Note 1)	(HP)	0.5	1	2	3	5	5.4	7.5	10	15	20	25	30
Applied Motor Note 1)	(kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22
	Rated Capacity (kVA) Note 2)	0.95	1.9	3.0	4.5	6.1	6.5	9.1	12.2	17.5	22.9	28.2	33.5
Outroot Batin	Rated Current (A) Note 3)	2.5	5	8	12	16	17	24	32	46	60	74	88
Output Rating	Peak Output frequency (Hz)					400 (Hz) Note 4)							
	Peak Output voltage (V)	3Ø 200~230V Note 5)											
Innut Dating	Rated Voltage (V)	3Ø 200~230 VAC (+10%,-15%)											
Input Rating	Rated Frequency (Hz)						50~60 (I	Hz) (±5%	6)				
Cooling Method	Natural cooling					For	ced air co	ooling					
Drive Weight (kg	g)	0.76	0.77	1.12	1.84	1.89	1.89	3.66	3.66	9.00	9.00	13.3	13.3

3Ø 400V Class

SV	□□□ iG5A-4 □	004	008	015	022	037	040	055	075	110	150	185	220
Applied Motor Note 1)	(HP)	0.5	1	2	3	5	5.4	7.5	10	15	20	25	30
Applied Motor Maca	(kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22
	Rated Capacity (kVA) Note 2)	0.95	1.9	3.0	4.5	6.1	6.9	9.1	12.2	18.3	22.9	29.7	34.3
Outnut Dating	Rated Current (A) Note 3)	1.25	2.5	4	6	8	9	12	16	24	30	39	45
Output Rating	Peak Output Frequency (Hz)	400 (Hz) Note 4)											
	Peak Output Voltage (V)	3Ø 380~480V Note 5)											
Innut Dating	Rated Voltage (V)					3Ø 38	0~480 V	AC (+10%	5,-15%)				
Input Rating	Rated Frequency (Hz) 50~60 (Hz) (±5%)												
Cooling Method	Natural Cooling	ng Forced air cooling											
Drive Weight ((g)	0.76	0.77	1.12	1.84	1.89	1.89	3.66	3.66	9.00	9.00	13.3	13.3

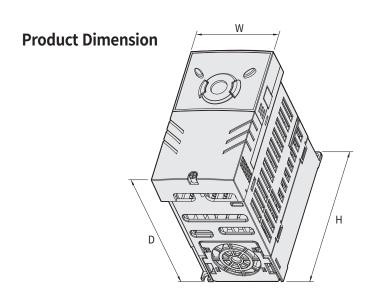
Note 1) The maximum applicable capacity of 4-pole OTIS-LG standard motor is marked for the Applied Motor.

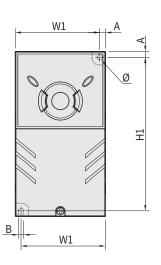
Note 2) For the rated capacity, the input capacity of 200V class is based on 220V and that of 400V class is based on 440V.

Note 3) Please refer to our Manual when the carrier frequency (H39) setting is 3kHz or above. (Page 13-4)

Note 4) When No.3 (sensor-less vector control) is chosen for H40 (control mode option), the peak frequency can be set up to 300Hz.

Note 5) The peak output voltage does not exceed the source voltage. The output voltage can be set within the source (power supply) voltage.





Unit:	mm	(inc	hes
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Model	kW	W	W1	Н	H1	D	A	В	Ø
SV004iG5A-1	0.4	70 (2.85)	65.5 (2.57)	128 (5.03)	119 (4.68)	130 (5.11)	4.5 (0.17)	4.0 (0.15)	4.0 (0.15)
SV004iG5A-2	0.4	70 (2.85)	65.5 (2.57)	128 (5.03)	119 (4.68)	130 (5.11)	4.5 (0.17)	4.0 (0.15)	4.0 (0.15)
SV008iG5A-2	0.75	70 (2.85)	65.5 (2.57)	128 (5.03)	119 (4.68)	130 (5.11)	4.5 (0.17)	4.0 (0.15)	4.0 (0.15)
SV004iG5A-4	0.4	70 (2.85)	65.5 (2.57)	128 (5.03)	119 (4.68)	130 (5.11)	4.5 (0.17)	4.0 (0.15)	4.0 (0.15)
SV008iG5A-4	0.75	70 (2.85)	65.5 (2.57)	128 (5.03)	119 (4.68)	130 (5.11)	4.5 (0.17)	4.0 (0.15)	4.0 (0.15)
SV008iG5A-1	0.75	100 (3.93)	95.5 (3.75)	128 (5.03)	120 (4.72)	130 (5.11)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV015iG5A-2	1.5	100 (3.93)	95.5 (2.57)	128 (5.03)	120 (4.72)	130 (5.11)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV015iG5A-4	1.5	100 (3.93)	95.5 (2.57)	128 (5.03)	120 (4.72)	130 (5.11)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV015iG5A-1	1.5	140 (5.51)	132 (5.19)	128 (5.03)	120.5 (4.74)	155 (6.10)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV022iG5A-2	2.2	140 (5.51)	132 (5.19)	128 (5.03)	120.5 (4.74)	155 (6.10)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV037iG5A-2	3.7	140 (5.51)	132 (5.19)	128 (5.03)	120.5 (4.74)	155 (6.10)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV040iG5A-2	4.0	140 (5.51)	132 (5.19)	128 (5.03)	120.5 (4.74)	155 (6.10)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV022iG5A-4	2.2	140 (5.51)	132 (5.19)	128 (5.03)	120.5 (4.74)	155 (6.10)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV037iG5A-4	3.7	140 (5.51)	132 (5.19)	128 (5.03)	120.5 (4.74)	155 (6.10)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV040iG5A-4	4.0	140 (5.51)	132 (5.19)	128 (5.03)	120.5 (4.74)	155 (6.10)	4.5 (0.17)	4.5 (0.17)	4.5 (0.17)
SV055iG5A-2	5.5	180 (7.08)	170 (6.69)	220 (8.66)	210 (8.26)	170 (6.69)	5 (0.19)	4.5 (0.17)	4.5 (0.17)
SV075iG5A-2	7.5	180 (7.08)	170 (6.69)	220 (8.66)	210 (8.26)	170 (6.69)	5 (0.19)	4.5 (0.17)	4.5 (0.17)
SV055iG5A-4	5.5	180 (7.08)	170 (6.69)	220 (8.66)	210 (8.26)	170 (6.69)	5 (0.19)	4.5 (0.17)	4.5 (0.17)
SV075iG5A-4	7.5	180 (7.08)	170 (6.69)	220 (8.66)	210 (8.26)	170 (6.69)	5 (0.19)	4.5 (0.17)	4.5 (0.17)
SV110iG5A-2	11.0	235 (9.25)	219 (8.62)	320 (12.59)	304 (11.96)	189.5 (7.46)	8.0 (0.31)	7.0 (0.31)	7.0 (0.31)
SV150iG5A-2	15.0	235 (9.25)	219 (8.62)	320 (12.59)	304 (11.96)	189.5 (7.46)	8.0 (0.31)	7.0 (0.31)	7.0 (0.31)
SV110iG5A-4	11.0	235 (9.25)	219 (8.62)	320 (12.59)	304 (11.96)	189.5 (7.46)	8.0 (0.31)	7.0 (0.31)	7.0 (0.31)
SV150iG5A-4	15.0	235 (9.25)	219 (8.62)	320 (12.59)	304 (11.96)	189.5 (7.46)	8.0 (0.31)	7.0 (0.31)	7.0 (0.31)
SV185iG5A-2	18.5	260 (10.23)	240 (9.44)	410 (16.14)	392 (15.43)	208.5 (8.20)	10.0 (0.39)	10.0 (0.39)	10.0 (0.39)
SV220iG5A-2	22.0	260 (10.23)	240 (9.44)	410 (16.14)	392 (15.43)	208.5 (8.20)	10.0 (0.39)	10.0 (0.39)	10.0 (0.39)
SV185iG5A-4	18.5	260 (10.23)	240 (9.44)	410 (16.14)	392 (15.43)	208.5 (8.20)	10.0 (0.39)	10.0 (0.39)	10.0 (0.39)
SV220iG5A-4	22.0	260 (10.23)	240 (9.44)	410 (16.14)	392 (15.43)	208.5 (8.20)	10.0 (0.39)	10.0 (0.39)	10.0 (0.39)

General Drive



- 3Ø 200V: 0.4kW~7.5kW
- 3Ø 400V: 0.4kW~7.5kW











G100, an Optimal General Drive for Various Industrial Sectors!

It is a general drive optimized for wide use in all industrial sectors with powerful sensor-less functions, improved hardware performance and certified high product reliability.



Improved Torque Performance Through Powerful Sensor-less Vector Control Functions

With improved sensor-less vector control functions when compared to our original standard drive, it maintains high torque performance at low speed and efficiently controls the motor.



A Variety of User-convenient Functions

Compact installation is realized through Din Rail mounting and sideby-side installation, and RJ port is at the front part of the product which makes it easily connectable with peripheral devices.



High Product Reliability

The heat-resisting property and intensity of our enclosure have significantly increased, and the insulation distance improved with our design that meets UL61800-5-1 standard.



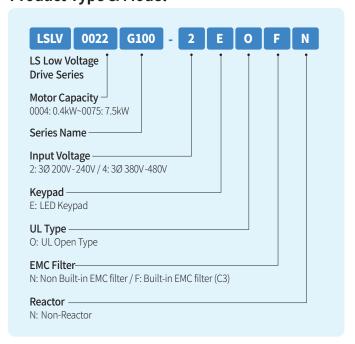
Intended Use

Applied to the following industries: metal, elevator/escalator, textile machinery, shipping, food and beverage, pulp/paper, coal mine, oil/gas and water treatment

- Hoist (hoist, gantry, trolley)
- General crane General crane
- Winder (loom, knitting machine) Conveyor
- Conveyor

Mixer (agitator)

Product Type & Model



Main Functions

Features	Description	Benefits
Improved Control Performance	Improved sensor-less function and simplified function setting	Powerful torque performance at low speed and high load conditions
Din rail Mounting and Side-by-side Installation	Removable clips to fix the Din-Rail to the product rear and sides; 2mm installation span between products	Fast and simple product installation that takes less than 5 minutes; increased space efficiency of panels
RJ45 Port at the Front Side of the Product	Easily connected to peripheral devices; and parameter can be copied (read/write) without taking the product out from its box	Enhanced convenience in product setting and extended connection with peripheral devices
Various Field Communication Network Support	Modbus, Profibus-DP, CANopen and Ethernet IP communication network support	Connectible with widely-used field networks
Quick Parameter Menu	Frequently-used and useful parameters are set in Quick Parameter Menu (Favorites)	Quick setting with operational convenience according to the customer's application
EMC Filter	Filter that meets the Category C3 standard	Reduced electromagnetic noise and no additional space and expenses for filter installation necessary
Improved Heat-resisting Property and Intensity of Enclosures	The heat-resisting property and intensity have improved with a new material for our enclosures; the enclosures have gotten thicker to prevent damages	Significantly improved product reliability and MTTF 27 years guaranteed
Network Option, Installation Convenience	Communication network operation can be easily connected to the product body without removing its cover; Ethernet 2 port support at the lower part of the option	Easy and fast removable communication network option
Global Standard Requirement	Obtained a certification of CE and new UL 61800-5-1 standard	Product reliability guaranteed (improved quality of insulation distance)

Control

Control Mode	V/F control, slip compensation and sensor-less vector				
Frequency Setting Resolution	quency Setting Resolution Digital command: 0.01Hz; 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 Tolerance	Heavy-load rated current: 150% 1min; light-load rated current: 120% 1min				
Torque Boost	Passive torque boost; auto torque boost				

Operation

Operatio	on Mode	Keypad / Terminal Block / Communication Network operation options					
Frequen	cy Setting	Analogue method: -10~10 (V), 0~10 (V), 4~20 (mA); dig	ital method: keypad input				
Operatio	on Function		motor; forward/backward rotation prohibited; power eration; DC braking; frequency jump; slip compensation; flux braking; and Fire Mode				
		NPN (Sink) / PNP (Source) options					
Input	Multifunction Terminal (5Points) P1~P5	at pause; second motor option; frequency increase; fr	/deceleration by stage – high, middle, low; DC braking requency decline; 3-wire operation; switching to the body operation during option operation; analogue				
Output	Multifunctional Relay Terminal	Fault output and inverter operation mode output	(N.O., N.C.) AC 250V, 1A or below, DC 30V, 1A or below				
Catput	Analogue Output	12Vdc: Frequency, output current, output voltage, DC	C voltage options				

G100

General Drive

3Ø 200V Class (0.4~7.5kW)

LSLV	□□□ □G100-2 □□	1000	0004	0008	0015	0022	0040	0055	0075
	Heavy Load	(HP)	0.5	1.0	2.0	3.0	5.4	7.5	10
Applied	neavy Loau	(kW)	0.4	0.75	1.5	2.2	4.0	5.5	7.5
Motor	liabtland	(HP)	1.0	2.0	3.0	5.4	7.5	10	15
	Light Load	(kW)	0.75	1.5	2.2	4.0	5.5	7.5	11
	Rated Capacity	Heavy load	1.0	1.9	3.0	4.2	6.5	9.1	12.2
	(kVA)	Light load	1.2	2.3	3.8	4.6	6.9	11.4	15.2
Output	Rated Current (A)	Heavy load	2.5	5.0	8.0	11.0	17.0	24.0	32.0
Rating		Light load	3.1	6.0	9.6	12.0	18.0	30.0	40.0
	Output Frequency	(Hz)	0~4	00Hz (IM Sens					
	Output Voltage (V)			3Ø 200					
	Operating Voltage	(V)	3	Ø 200~240VA					
Input	Input Frequency (I	Hz)		50~60H	z (±5%)				
Rating	Dated Current (A)	Heavy Load	2.2	4.9	8.4	11.8	18.5	25.8	34.9
	Rated Current (A)	Light Load	3.0	6.3	10.8	13.1	19.4	32.7	44.2
Weight (kg)	Weight (kg)			1.06	1.36	1.4	1.89	3.08	3.21

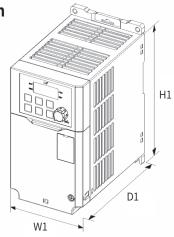
3Ø 400V Class (0.4~7.5kW)

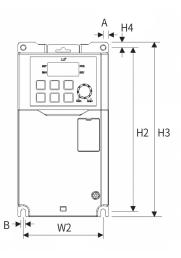
LSLV	 G100-4	1000	0004	0008	0015	0022	0040	0055	0075		
		(HP)	0.5	1.0	2.0	3.0	5.4	7.5	10		
Applied	Heavy Load	(kW)	0.4	0.75	1.5	2.2	4.0	5.5	7.5		
Motor	liabtland	(HP)	1.0	2.0	3.0	5.4	7.5	10	15		
	Light Load	(kW)	0.75	1.5	2.2	4.0	5.5	7.5	11		
	Rated Capacity	Heavy load	1.0	1.9	3.0	4.2	6.5	9.1	12.2		
	(kVA)	Light load	1.5	2.4	3.9	5.3	7.6	12.2	17.5		
	Rated Current (A) (3Ø Input) (A)	Heavy load	1.3	2.5	4.0	5.5	9.0	12.0	16.0		
Output		Light load	2.0	3.1	5.1	6.9	10.0	16.0	23.0		
Rating	Rated Current (A)	Heavy load	1.5	2.8	4.6	6.1	9.3	13.0	18.0		
		Light load	1.8	3.3	5.7	6.6	9.9	16.0	22.0		
	Output Frequency	/ (Hz)	0~400Hz (IM Sensor-less: 0~120Hz)								
	Output Voltage (V)				3Ø 380~480V					
	Operating Voltage	(V)			3Ø 380	-480VAC (-15%	b~+10%)				
	Input Frequency (Hz)			Ę	50~60Hz (±5%	ó)				
Input Rating	Rated Current (A)	Heavy Load	1.1	2.4	4.2	5.9	9.8	12.9	17.5		
	Rateu Current (A)	Light Load	2.0	3.3	5.5	7.5	10.8	17.5	25.4		
Weight (kg) (Built-in EMC	Filter)	1.02 (1.04)	1.06 (1.08)	1.4 (1.44)	1.42 (1.46)	1.92 (1.98)	3.08 (3.24)	3.12 (3.28)			

[•] The motor capacity is calculated with a standard 4-pole motor.
• 200V Class is based on 220V and 400V Class on 440V.

[•] The rated output current is limited according to the carrier frequency (Cn.04) setting.
• Upon no-load operation to protect the inverter when the motor is open/closed, the output voltage is 20~40% lower than the original voltage. (only for 0.4~4.0kW)

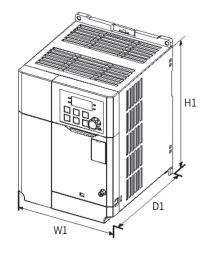
Product Dimension

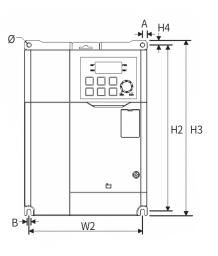




Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	D1	Α	В	Ø	
0004G100-2										
0008G100-2	85 (3.35)	75 (2.95)	153 (6 02)	163 (6.42)	131.5 (5.18)				
0004G100-4		13 (2.93)	155 (0.02)	103 (0.42)	131.3 (3.16)				
0008G100-4							5 (0.20)	4.5 (0.18)		
0015G100-2								3 (0.20)	7.5 (J.10)
0022G100-2	100 (3.94)	90 (3.54)	167 (6 57)	177 (6.97)	7) 150.5 (5.93)				
0015G100-4	100 (3.94)	30 (3.34)	107 (0.51)	111 (0.51)	150.5 (5.95)				
0022G100-4										





Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	D1	Α	В	Ø
0040G100-2	135 (5.31)	125 (4.92)	193 /	7 20)	193 (7.60)	150.5 (5.93)			4.5 (0.18)
0040G100-4	133 (3.31)	123 (4.32)	183 (7.20)		133 (1.00)	150.5 (5.55)		4.5 (0.18)	
0055G100-2							5 (0	20)	
0075G100-2	180 (7.09)	162 (6.37)	220 (8.66)	229.5 (9.04)	240 (9.45)	144 (5.67)	3 (0.20)	5 (0.20)	
0055G100-4	180 (7.09)	102 (0.51)	220 (0.00)		240 (3.43)	144 (5.01)			3 (0.20)
0075G100-4									

S100

Standard Drive



- 1Ø 200V 0.4~2.2kW
- 3Ø 200V 0.4~15kW
- 3Ø 400V 0.4~75kW
- IP66 NEMA4X 3Ø 200V 0.4~15kW
- IP66 NEMA4X 3Ø 400V 0.4~22kW



Efficient Space Utilization

Standard Drive, S100

LSIS standard drive, S100 enhances added values of mechanical devices and equipment with its powerful sensor-less control and a wide range of user-centered functions. It meets the global standard and support various field networks. In particular, IP66 NEMA4X series are fully protected from foreign substances such as fine dust and

Space efficiency is maximized with its compact size, which is 40% smaller than the original product, and side-by-side installation.

Various Field Network Support

water sprayed with a high-pressure sprayer.

The drive supports the following networks: EtherCAT, EtherNet/IP, Profibus-DP, Modbus TCP, CANopen and etc

IP66/ NEMA4X

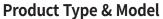
The drive acquired the highest class IP66 / NEMA4X and it can be used without trouble under poor environment or even when externally exposed.

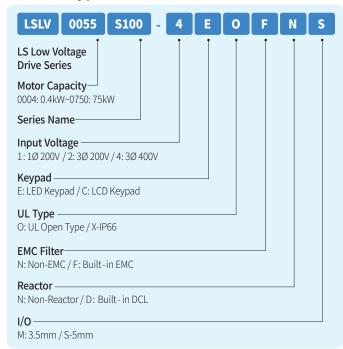
Intended Use

Applied to the following industries: metal, elevator/escalator, textile machinery, shipping, food and beverage, pulp/paper, coal mine, oil/gas and water treatment

- Hoist (hoist, gantry, trolley)
- Winder (loom, knitting machine)
- Mixer (agitator)
- Compressor

- Centrifugal separator
- General crane
- Conveyor













Main Functions

Features	Description	Benefits
Sensor-less Control and Static-type/Rotation-type Auto Tuning	Electric motor constant search is possible without rotating the motor even when the motor is installed at a place where rotation is impossible or when the system is already installed.	Accurate velocity and torque operation
Product Size Reduction 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 multiple drives are installed, the control panel size is significantly reduced
Various Field Networks	EtherCAT, PROFINET, Profibus-DP, Ethernet IP, Modbus TCP and CANopen communication network support	Possible to connect to all widely-used field networks; comfortable maintenance of option cards and easy mounting
Compact PLC Function Option	With a combination of various function blocks, a simple PLC sequence programming is realized	High-level control programming with only the drive and without the external PLC
DC Reactor	Built-in DC reactor % 400V, 30~75kW	Improved power factor and THD reduction
Safe Torque Off (STO)	Duplexing input circuit is applied; safe input function that meets the following standards: EN ISO 13849-1 PLD and EN 61508 SIL2 (EN60204-1, Stop category 0)	Satisfied the safety standards of systems with a built-in safety design
EMC Filter	Filter satisfying Category C3 (Class A) 2nd Environment CE standard % 1-phase 200V 0.4~2.2kW (C2) % 3-phase 400V 0.4~45kW (C3)	Reduced electromagnetic noise; additional space and expense for parts not required
IP66 (NEMA 4X) Enclosure Option	Completely protected from foreign substances such fine dust and water sprayed with a high-pressure sprayer	Inverters can be used even when exposed to the poor environment

Control

Control Mode	V/F control, slip compensation, sensor-less vector
Frequency Setting Resolution	Digital command: 0.01Hz; analogue command: 0.06Hz (peak frequency: 60Hz)
Frequency Level	1% of the peak output frequency
V/F Pattern	Linear, square-law torque reduction, user V/F
Overload Tolerance	Heavy-load rated current: 150% 1min; light-load rated current: 120% 1min
Torque Boost	Passive torque boost; auto torque boost

 $[\]ensuremath{\texttt{\%}}$ Please contact our sales person for further details on PM sensor-less functions.

Operation

	Operation	n Mode	Keypad/ Terminal Block / Communication Netw	ork options				
	Frequenc	cy Setting	Analogue method: -10~10 (V), 0~10 (V), 4~20 (m/	A); digital method: keypad, pulse train input				
	Operation	n Function	PID control, up-down operation; 3-wire operation; DC braking; frequency limit; frequency jump; secondary function; slip compensation; forward/backward rotation prohibited; auto restart; power switch; auto tuning; speed search; energy buffering; power braking; flux braking; leakage-reduced operation; Fire Mode					
			NPN (Sink) / PNP (Source) option					
	Input	Multifunctional Terminal Standard I/O (5Points) Multiple I/O (7Points)	Function: Forward operation; backward operation; reset; external trip; emergency trip; jog operation; switching frequency – high, middle, low; acceleration/deceleration by stage – high, middle, low; DC braking upon pause; second motor option; frequency increase; frequency decline; 3-wire operation; switching to general operation during PID operation; switching to body operation during option operation; analogue command fixed frequency; acceleration/deceleration stop option					
		Analogue Input	V1: -10~10V, V2: 0~10V / I2 4~20mA options					
		Pulse Train	0~32kHz, Low Level: 0~2.5V, High Level: 3.5~12V					
		Multifunctional Open Collector Terminal	Fault output and drive eneration mode output	DC 24V, 50mA or below				
	Output	Multifunctional Relay Terminal	Fault output and drive operation mode output	(N.O., N.C.) AC 250V 1A or below, DC 30V 1A or below				
		Analogue Output	0~12Vdc/0~24mA: selectable among frequency,	output current, output voltage and DC terminal voltage				
		Pulse Train	Up to 32kHz, 10~12 (V)					

Standard Drive

1Ø 200V Class (0.4~2.2kW)

LSI	V====S100-1=:	1000	0004	8000	0015	0022			
	Hanneland	(HP)	0.5	1.0	2.0	3.0			
Applied	Heavy Load	(kW)	0.4	0.75	1.5	2.2			
Motor	Lightland	(HP)	1.0	2.0	3.0	5.0			
	Light Load	(kW)	0.75	1.5	2.2	3.7			
	Rated Capacity	Heavy load	1.0	1.9	3.0	4.2			
	(kVA)	Light load	1.2	2.3	3.8	4.6			
Output	Rated Current (A)	Heavy load	2.5	5.0	8.0	11.0			
Rating		Light load	3.1	6.0	9.6	12.0			
	Output Frequency	(Hz)		0~400Hz (IM Senso	or-less: 0~120 (Hz))				
	Output Voltage (V)		3Ø 200~240V						
	Operational Voltag	e (V)	1Ø 200~240VAC (-15%~+10%)						
Input	Input Frequency (F	lz)		50~60H	z (±5%)				
Rating	Dated Current (A)	Heavy Load	4.4	9.3	15.6	21.7			
	Rated Current (A)	Light Load	5.8	11.7	19.7	24.0			
Weight	Non-EMC		0.9	1.3	1.5	2.0			
(kg)	Built-in EMC		1.14	1.76	1.76	2.22			

3Ø 200V Class (0.4~15kW)

LSI	.V□□□□S100-2□□	1000	0004	8000	0015	0022	0037	0040	0055	0075	0110	0150
	Heavy Load	(HP)	0.5	1.0	2.0	3.0	5.0	5.4	7.5	10.0	15.0	20.0
Applied Motor	Heavy Load	(kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11.0	15.0
	Liebt Lead	(HP)	1.0	2.0	3.0	5.0	5.4	7.5	10.0	15.0	20.0	25.0
	Light Load	(kW)	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11.0	15.0	18.5
	Rated Capacity	Heavy Load	1.0	1.9	3.0	4.2	6.1	6.5	9.1	12.2	17.5	22.9
	(kVA)	Light Load	1.2	2.3	3.8	4.6	6.9	6.9	11.4	15.2	21.3	26.3
	Rated Current (A) (3Ø Input) (A)	Heavy Load	2.5	5.0	8.0	11.0	16.0	17.0	24.0	32.0	46.0	60.0
Output		Light Load	3.1	6.0	9.6	12.0	18.0	18.0	30.0	40.0	56.0	69.0
Rating	Rated Current (A) (1Ø Input) (A)	Heavy Load	1.5	2.8	4.6	6.1	8.8	9.3	13.0	18.0	26.0	33.0
		Light Load	1.8	3.3	5.7	6.6	9.9	9.9	16.0	22.0	31.0	38.0
	Output Frequency	(Hz)	0~400Hz (IM Sensor-less: 0~120 (Hz))									
	Output Voltage (V)		3Ø 200~240V									
	Operational Voltag	ge (V)			3Ø 200~24	40VAC (-15	5%~+10%)	/1Ø200~	240VAC (-	5%~+10%)	
Input	Input Frequency (H	łz)	50~6	0Hz (±5%	6) (Upon s	ingle-pha	se input, i	nput frequ	uency sho	uld only b	e 60Hz (±	5%))
Rating	Rated Current (A)	Heavy Load	2.2	4.9	8.4	11.8	17.5	18.5	25.8	34.9	50.8	66.7
	nateu current (A)	Light Load	3.0	6.3	10.8	13.1	19.4	19.4	32.7	44.2	62.3	77.2
Weight	Non-EMC		0.9	0.9	1.3	1.5	2.0	2.0	3.1	3.1	4.4	6.9
(kg)	Built-in EMC			-	-	-	-	-	-	-	-	-

<sup>The motor capacity is calculated with a 4-pole standard motor.
200V Class is based on 220V, and 400V Class on 440V.
The rated output current is limited according to the carrier frequency (Cn.04) setting.</sup>

[•] Upon no-load operation to protect the drive when the motor is open/closed, the output voltage is 20~40% lower than the original voltage. (only for 0.4~4.0kW)
• Dual rating is supported for products, excluding IP66/NEMA 4X.

3Ø 400V Class (0.4~22kW)

LSL	.V::::::::::::::::::::::::::::::::::::	1000	0004	0008	0015	0022	0037	0040	0055	0075	0110	0150	0185	0220
	Hanneland	(HP)	0.5	1.0	2.0	3.0	5.0	5.4	7.5	10.0	15.0	20.0	25.0	30.0
Applied	Heavy Load	(kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11.0	15.0	18.5	22.0
Motor	LightLoad	(HP)	1.0	2.0	3.0	5.0	5.4	7.5	10.0	15.0	20.0	25.0	30.0	40.0
	Light Load	(kW)	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11.0	15.0	18.5	22.0	30.0
	Rated Capacity	Heavy Load	1.0	1.9	3.0	4.2	6.1	6.9	9.1	12.2	18.3	22.9	29.7	34.3
	(kVA)	Light Load	1.5	2.4	3.9	5.3	7.6	7.6	12.2	17.5	22,9	29.0	33.5	44.2
	Rated Current (A) (3Ø Input) (A)	Heavy Load	1.3	2.5	4.0	5.5	8.0	9.0	12.0	16.0	24.0	30.0	39.0	45.0
Output		Light Load	2.0	3.1	5.1	6.9	10.0	10.0	16.0	23.0	30.0	38.0	44.0	58.0
Rating	Rated Current (A) (1Ø Input) (A)	Heavy Load	0.8	1.5	2.3	3.1	4.8	5.4	7.1	9.5	15.0	18.0	23.0	27.0
		Light Load	1.3	1.9	3.0	3.9	5.9	5.9	9.5	14.0	18.0	23.0	27.0	35.0
	Output Frequency	0~400Hz (IM Sensor-less: 0~120 (Hz))												
	Output Voltage (V)		3Ø 380~480V											
	Operational Voltag	je (V)			3Ø 38	30~480V	AC (-15%	6~+10%)	/ 1Ø 200	~240VA	C (-5%~+	-10%)		
Input	Input Frequency (H	łz)	50^	-60Hz (±	5%) (Up	on sing	le-phase	input, i	nput free	quency :	should o	nly be 6	0Hz (±5	,%))
Rating	Rated Current(A)	Heavy Load	1.1	2.4	4.2	5.9	8.7	9.8	12.9	17.5	26.5	33.4	43.6	50.7
	Rateu Current(A)	Light Load	2.0	3.3	5.5	7.5	10.8	10.8	17.5	25.4	33.4	42.5	49.5	65.7
Weight	Non-EMC		0.9	0.9	1.3	1.5	2.0	2.0	-	-	-	-	-	-
(kg)	Built-in EMC		1.18	1.18	1.77	1.80	2.23	2.23	3.3	3.4	4.6	4.8	7.5	7.5

3Ø 400V Class (30~75kW)

LSL	.V 🗆 🗆 🗆 S100-4 🗆 C	1000	0300	0370	0450	0550	0750				
	Hanneland	(HP)	40.0	50.0	60.0	75.0	100.0				
Applied	Heavy Load	(kW)	30.0	37.0	45.0	55.0	75.0				
Motor	Lightland	(HP)	50.0	60.0	75.0	100.0	120.0				
	Light Load	(kW)	37.0	45.0	55.0	75.0	90.0				
	Rated Capacity	Heavy Load	46.0	57.0	69.0	84.0	116.0				
	(kVA)	Light Load	55.0	67.0	78.0	106.0	126.0				
	Rated Current (A) (3Ø Input) (A)	Heavy Load	61.0	75.0	91.0	110.0	152.0				
Output Rating		Light Load	75.0	91.0	107.0	142.0	169.0				
Katilig	Rated Current (A)	Heavy Load	32.0	39.0	47.0	57.0	78.0				
	(1Ø Input) (A)	Light Load	39.0	47.0	55.0	73.0	87.0				
	Output Frequency	(Hz)	0~400Hz (IM Sensor-less: 0~120 (Hz))								
	Output Voltage (V)		3Ø 380~480V								
	Operational Voltag	je (V)	3Ø 380~480VAC (-15%~+10%) / 1Ø 200~240VAC (-5%~+10%)								
Input	Input Frequency (F	łz)	50~60Hz (±5%	6) (Upon single-pha	se input, input frequ	uency should only b	e 60Hz (±5%))				
Rating	Rated Current (A)	Heavy Load	56.0	69.0	85.0	103.0	143.0				
	Rateu Current (A)	Light Load	69.0	85.0	100.0	134.0	160.0				
Weight	Non-EMC		25.0	34.0	34.0	43	43				
(kg)	Built-in EMC		26.0	35.0	35.0	73	75				

 $[\]bullet$ The motor capacity is calculated with a 4-pole standard motor.

⁻ The rated output current is limited according to the carrier frequency (Cn.04) setting.

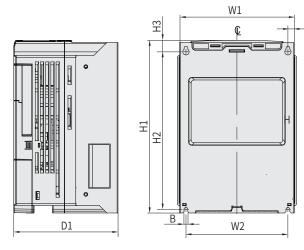
- Upon no-load operation to protect the drive when the motor is open/closed, the output voltage is 20~40% lower than the original voltage. (only for 0.4~4.0kW)

- Dual rating is supported for products, excluding IP66/NEMA 4X.

S100

Standard Drive

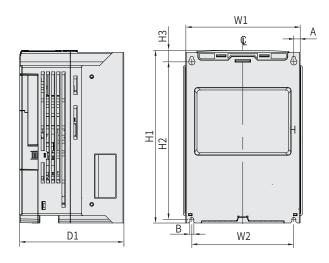
Product Dimension



Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	D1	Α	В	Ø
LSLV0004S100-2						122 (4.04)			4.2 (0.17)
LSLV0004S100-4						123 (4.84)		4 (0.16)	4.2 (0.17)
LSLV0004S100-1	68 (2.68)	61.1 (2.41)		119 (4.69)	5 (0.20)		3.5 (0.14)		
LSLV0008S100-2						128 (5.04)			4 (0.16)
LSLV0008S100-4									
LSLV0008S100-1	100 (3.94)								
LSLV0015S100-2						130 (5.12)			
LSLV0015S100-4		91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)		4.5 (n 18)	
LSLV0015S100-1		31 (3.30)	120 (3.04)	120 (4.12)	4.5 (0.10)		7.5 (J.18)	
LSLV0022S100-2									
LSLV0022S100-4									4.5 (0.18)
LSLV0022S100-1						145 (5.71)			
LSLV0037S100-2	140 (5.51)	(5.51) 132.2 (5.21)		120.7 (4.75)	()		0.0 (0.15)		
LSLV0037S100-4					3.7 (0.15)		3.9 (0.15)	4.4 (0.17)	
LSLV0040S100-2									
LSLV0040S100-4									
LSLV0004S100-1	, ,	2.68) 63.5 (2.5)		170.5 (6.71)		130 (5.12)			
LSLV0004S100-4	68 (2.68)								
LSLV0008S100-4						4.5 (0.40)			0.10)
LSLV0008S100-1 LSLV0015S100-1							4.5 (0.18)		
LSLV0015S100-1 LSLV0015S100-4	100 (3.94)	91 (3.59)	180 (7.09)		5 (0.20)				4.2 (0.17)
LSLV0022S100-4				170 (6.69)					
LSLV0022S100-1				110 (0.03)					
LSLV0037S100-4	140 (5.51)	132 (5.20)				140 (5.51)	4 (0	18)	
LSLV0040S100-4	140 (5.51)	102 (0.20)				110 (5.51)	1	.10/	
LSLV0055S100-2									
LSLV0075S100-2									
LSLV0055S100-4	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)		5 (0	.20)	-
LSLV0075S100-4									

^{*} Built-in EMC filter



Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	D1	Α	В	Ø				
LSLV0110S100-2													
LSLV0110S100-4	180 (7.09)	157 (6.18)	290 (11.4)	273.7 (10.8)	11.3 (0.44)	163 (6.42)	5 (0.20)						
LSLV0150S100-4													
LSLV0150S100-2													
LSLV0185S100-4	220 (8.66)	220 (8.66)	220 (8.66)	193.8 (7.63)	350 (13.8)	331 (13.0)	13 (0.51)	187 (7.36)	6 (0.24)				
LSLV0220S100-4									-				
LSLV0300S100-4	275 (10.8)	232 (9.13)	450 (17.7)	428.5 (16.87)	14 (0.55)								
LSLV0370S100-4	325 (12.8)					282 (11.10)	510 (20.1)	400 5 (10 15)		284 (11.2)	7 (0.28)		
LSLV0450S100-4		282 (11.10)	510 (20.1)	486.5 (19.15)	16 (0.63)								
LSLV0550S100-4		275 (10.83)	550 (21.7)	524.5 (20.65)	10 (0.03)	309 (12.2)	0.10	25)					
LSLV0750S100-4		213 (10.83)	550 (21.7)	324.3 (20.03)		309 (12.2)	9 (0.35)						

^{*} Built-in EMC filter

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 LSIS 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

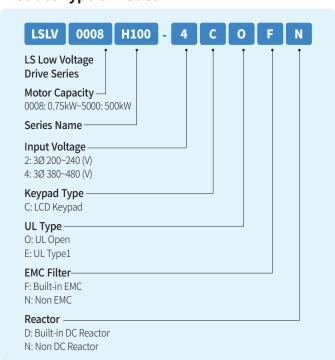
User-friendly functions for convenient use of fans/pumps such as pump clean, auxiliary motor PID compensation and load tuning.



Intended Use

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

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 37~55kW 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 control, slip compensation
Frequency Setting Resolution	Digital command: 0.01Hz
	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 Tolerance	5.5~90kW rated current: 120% 1min
Overtoad Toterance	110~500kW rated current: 110% 1min
Torque Boost	Passive torque boost; auto torque boost

Operation

•								
Operation	on Mode	Keypad, Terminal Block, Communication Network options						
<u>Гианичан</u>		Analogue method: -10 ~ 10V, 0 ~ 10V, 0 ~ 20mA						
Frequen	ncy Setting	Digital method: keypad, pulse train input						
Operatio	on 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						
		PNP(Source), NPN(Sink) options According to the parameter setting o	f IN-65~71 codes, the following functions can be set.					
Input	Multifunctional Terminal (7Points)	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 Lev	/el: 3.5~12V					
	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					
Output	Multifunctional Relay Terminal		AC250V, 5A or below, DC30V, 5A or below					
	Analogue Output	0~12Vdc(0~20mA): Frequency, outpu	it current, output voltage, DC voltage options					
	Pulse Train	Up to 32kHz, 0~12V						

H100

Fan & Pump Drive

3Ø 200V Class (0.75~18.5kW)

LSLV□□	□□ H100-2 □□□□□	0008	0015	0022	0037	0055	0075	0110	0150	0185			
Applied	HP	1.0	2.0	3.0	5.0	7.5	10	15	20	25			
Motor	kW	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5			
	Rated Capacity (kVA)	1.9	3.0	4.5	6.1	8.4	11.4	16.0	21.3	26.3			
Output	Rated Current (A)	5	8	12	16	22	30	42	56	69			
Rating	Output Frequency (Hz)	0~400Hz											
	Output Voltage (V)	3Ø 200~240V											
Innut	Operational Voltage (V)	3Ø 200~240VAC (-15%~+10%)											
Input	Input Frequency (Hz)		50~60Hz (±5%)										
Rating	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			

3Ø 400V Class (0.75~22kW)

LSLV □ [□□ H100-4 □□□□□	0008	0015	0022	0037	0055	0075	0110	0150	0185	0220		
Applied	HP	1.0	2.0	3.0	5.0	7.5	10	15	20	25	30		
Motor	kW	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22		
	Rated Capacity (kVA)	1.9	3.0	4.5	6.1	9.1	12.2	18.3	23.0	29.0	34.3		
Output	Rated Current (A)	2.5	4	6	8	12	16	24	30	38	45		
Rating	Output Frequency (Hz)					0~40	0Hz						
	Output Voltage (V)		3Ø 380~480V										
Innut	Operational Voltage (V)		3Ø 380~480VAC (-15%~+10%)										
Input	Input Frequency (Hz)					50~60Hz	z (±5%)						
Rating	Rated Current (A)	2.4	4.2	6.5	8.7	12.2	17.5	26.5	33.4	42.5	50.7		
Weight (kg		3.3	3.3	3.3	3.3	3.3	3.3	3.4	4.6	4.8	7.5		

3Ø 400V Class (30~90kW)

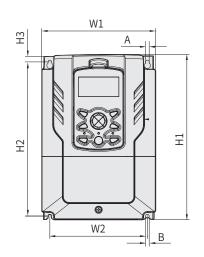
LSLV□	H100-4	0300	0370	0450	0550	0750	0900						
Applied	HP	40	50	60	75	100	125						
Motor	kW	30	37	45	55	75	90						
Output Rating	Rated Capacity (kVA)	46.5	57.1	69.4	82.0	108.2	128.8						
	Rated Current (A)	61	75	91	107	142	169						
	Output Frequency (Hz)	0~400Hz											
	Output Voltage (V)		3Ø 380~480V										
Innut	Operational Voltage (V)		3Ø 380~480VAC (-15%~+10%)										
Input	Input Frequency (Hz)		50~60Hz (±5%)										
Rating	Rated Current (A)	69.1	69.3	84.6	100.1	133.6	160.0						
Weight (kg)/EMC Built-in		7.5	26	35	35	,	13						
Weight (kg)/Non EMC		-	25 24 24										

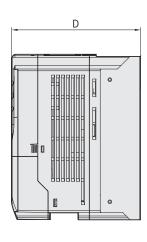
3Ø 400V Class (110~500kW)

	•	•											
LSLV□	□□□ H100-4 □□□□	1100	1320	1600	1850	2200	2500	3150	3550	4000	5000		
Applied	HP	150	200	250	300	350	400	500	550	650	800		
Motor	kW	110	132	160	185	220	250	315	355	400	500		
	Rated Capacity (kVA)	170	201	248	282	329	367	467	520	587	733		
Output	Rated Current (A)	223	264	325	370	432	481	613	683	770	962		
Rating	Output Frequency (Hz)					0~40	00Hz						
	Output Voltage (V)		3Ø 380~500V										
Innut	Operational Voltage (V)				3Ø 3	880~500VA	C (-15%~+1	.0%)					
Input	Input Frequency (Hz)					50~60Hz	z (±5%)						
Rating	Rated Current (A)	215.1	254.6	315.3	358.9	419.1	469.3	598.1	666.4	751.3	938.6		
Weight (kg)		55.8	55.8	74.7	74.7	120.0	120.0	185.5	185.5	185.5	265		

- The motor capacity is calculated with a standard 4-pole electric motor.
 200V Class is based on 220V and 400V Class on 440V.
 The rated output current is limited according to carrier frequency (CON-04) setting.
 400V 5.5~30kW capacity products have built-in EMC filters.
- 400V 37~55kW capacity products have an option to include built-in EMC filters.
- 400V 75~90kW capacity products satisfy the EMC standard with a separate filter.
- \bullet The overload tolerance of 200V 5.5~18.5kkW and 400V 5.5~90kW products is 120%.
- $\bullet\,400V\,110{\sim}500kW$ capacity products have built-in EMC filters.
- The overload tolerance of 400V 110~500kW products is 110%.

Product Dimension





IP20 Type

Unit: mm (inches)

,	Model	W1	W2	H1	H2	Н3	D	Α	B
	LSLV0008H100-2	VVI	VVZ	111	112	113		^	
	LSLV0008H100-2								
	LSLV0015H100-2								
3Ø 200V	LSLV0022H100-2 LSLV0037H100-2								
3Ø 200V	LSLV00571100-2	_							
	LSLV0055H100-2								
	LSLV0110H100-2								
	LSLV00101100-2	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	181 (7.13)		
	LSLV0005H100-4							5 (0.20)	5 (0.20)
	LSLV00131100-4							3 (0.20)	3 (0.20)
3Ø 400V	LSLV00221100-4 LSLV0037H100-4								
30 TOOV	LSLV0055H100-4								
	LSLV0035H100-4								
	LSLV0110H100-4								
3Ø 200V	LSLV0150H100-2								
	LSLV0150H100-4	180 (7.09)	157 (6.18)	290 (44.42)	273.7 (10.78)	11.3 (0.45)	205.3 (8.08)		
3Ø 400V	LSLV0185H100-4	,	(3.7)			(3. 2)			
3Ø 200V	LSLV0185H100-2								
	LSLV0220H100-4	220 (8.66)	193.8 (7.63)	350 (13.78)	331 (13.03)	13 (0.51)	223.2 (8.79)	6 (0.24)	6 (0.24)
3Ø 400V	LSLV0300H100-4	` ′	, ,		, ,	, ,		, ,	, ,
3Ø 400V	LSLV0370H100-4	275 (10.83)	232 (9.13)	450 (17.72)	428.5 (16.87)	14 (0.55)			
26 4001	LSLV0450H100-4		202 /11 10)	F10 (20 00)	400 5 (10 15)		284 (11.18)	7 (0.28)	7 (0.28)
3Ø 400V	LSLV0550H100-4	225 (12.00)	282 (11.10)	510 (20.08)	486.5 (19.15)	10 (0.00)			
200 400 1	LSLV0750H100-4	325 (12.08)	275 (10.02)	FF0 (21 CF)	E34 E /30 CE)	16 (0.63)	200 (12 00)		
3Ø 400V	LSLV0900H100-4		275 (10.83)	550 (21.65)	524.5 (20.65)		309 (12.80)		
	LSLV1100H100-4	200 /11 01\	200 (7.07)	706 (27 00)			206 (15 20)	0 (0.35)	0 (0.35)
201 4001	LSLV1320H100-4	300 (11.81)	200 (7.87)	706 (27.80)	COE E (2C 00)	0 E (0 27)	386 (15.20)	9 (0.35)	9 (0.35)
3Ø 400V	LSLV1600H100-4	380 (14.96)	200 /11 01\	705 (27.76)	685.5 (26.99)	9.5 (0.37)	206 (15 50)		
	LSLV1850H100-4	- 380 (14.96)	300 (11.81)	103 (21.16)			396 (15.59)		

IP00 Type

	Model	W1	W2	H1	H2	Н3	D	Α	В
	LSLV2200H100-4	426 (16.77)	320 (12.60)	022 2 (26 21)	895.5 (35.26)	15.5 (0.61)	440 (17.32)	11 (0.43)	11 (0.43)
	LSLV2500H100-4	420 (10.77)	320 (12.00)	922.3 (30.31)	693.3 (33.20)	13.3 (0.01)	440 (11.32)	11 (0.43)	11 (0.43)
3Ø 400V	LSLV3150H100-4								
3Ø 4 00V	LSLV3550H100-4	600 (23.62)	420 (16.54)	1000 (39.37)	972 (38.27)	15 (0.59)	500 (19.69)	14 (0.55)	14 (0.55)
	LSLV4000H100-4						300 (19.09)	14 (0.55)	14 (0.55)
	LSLV5000H100-4	776 (30.55)	500 (19.69)	1054 (41.50)	1021 (40.20)	20 (0.79)			

High Performance Drive



- 3Ø 200V:0.75kW~75kW
- 3Ø 400V:0.75kW~375kW

IP54

- 3Ø 200V 0.75~22kW
- 3Ø 400V 0.75~22kW





















ISO9001 ISO14001

iS7, a High-performance and **High-reliability Drive**

iS7 is a high-performing standard drive that is applicable to any working environment.



Powerful Sensor-less Vector Control

Sensor-less vector algorithms developed with our accumulated technologies that demonstrate powerful control of low-speed torque and speed accuracy are built-in.



A Variety of Functions

User-convenience has increased with various functions, including V/F control, V/F PG, slip compensation, KEB, Easy Start, auto tuning at pause and Flying Start.



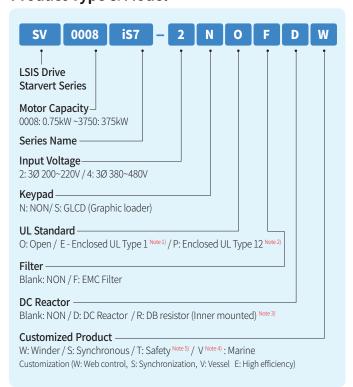
Intended Use

- Warping /Beaming machine
- Laminating machine
- Drawing machine

• Tire line

- Elevator Construction lift
- Crane/Hoist
- Parking equipment
 Compressor
- Auto warehouse
- Press
- Washer/Dehydrator

Product Type & Model



Note 1) For 0.75~75KW range, enclosed type 1 can be satisfied if conduit option installed.

Note 2) Enclosed UL type 1,2 is available from 0.75 to 22kW.

Note 3) Built-in DB resistor option is available only for web version product from 0.75kW to 3.7kW. $\ensuremath{\mathsf{DB}}$ resistor of IS7 porduct is the option of WEB product. Applicable capacity is from 0.75 to 375 kW of IS7 porducts.

Note 4) More information about marine certification, refer to the 25 page

Note 5) For 0.75~160kW, safety type products have built-in safety options. However, safety options should be purchased and applied to general products for 185~375kW products.

Main Functions

Features	Description	Benefits
Powerful Control Performance	Sensor-less vector control, sensored control, and auto tuning	Improved accuracy in speed and torque operation
Safety Card	2-channel STO (Safety Torque Off) 0.75~160kW Safety option built-in (185~375kW optional built-in	Satisfied the safety standards and contacts with complete safety functions provided
Various Field Networks	Profibus-DP, Ethernet IP, Modbus TCP, CANopen, PROFINET, CC link, RAPIEnet, LonWorks, R-Net/F-Net communication network options	Possible to handle various field networks; convenient maintenance of options board; and easier mounting
EMC Filter	200V/400V 0.75~22kW capacity EMC filter built-in product options	Reduced electromagnetic noise; and additional space and expenses for parts unnecessary
DC Reactor	Capacity with built-in reactors % 200V 0.75~22kW % 400V 0.75~220kW	Minimized harmonics and power factor decline
Application-customized Functions	Web function (wire-drawing machine) S/W option; position and synchronization control option; and classification option	Flexible application for load equipment used in various industrial sectors

Control

Control Mode	V/F control, V/F PG, slip compensation, sensor-less vector-1, sensor-less vector -2, vector control
Frequency Setting Resolution	Digital command: 0.01Hz / Analogue command: 0.06Hz (peak frequency: 60Hz)
Frequency Level	Digital command operation: 0.01% of the peak output frequency/ Analogue command operation: 0.1% of the peak output frequency
V/F Pattern	Linear, square-law torque reduction, user V/F
Overload Tolerance	CT (Heavy Duty) current rating: 150% 1min / VT (Normal Duty) current rating: 110% 1min
Torque Boost	Passive torque boost; auto torque boost

Operation

Operatio	on Mode	Keypad / Terminal Block / Communication Netw	ork options				
Frequen	cy Setting	Analogue method: $0 \sim 10$ (V), $-10 \sim 10$ (V), $0 \sim 20$ Digital method: Keypad	(mA)				
Operatio	on Function	PID control; up-down operation; 3-wire operation; DC braking; frequency limit; frequency jump; secondary function; slip compensation; reverse rotation prevention; auto restart; power switching; auto tuning; speed search (Flying Start); energy buffering operation; Power Braking; Flux Braking; leakage-reduced operation; MMC; Easy Start					
		NPN (Sink) / PNP (Source) Options					
Input	Multifunctional Terminal (8Points) P1 ~ P8 Note 7)	switching frequency – high, middle, low; accelerations at pause; second motor option; frequency	peration; switching to body operation during option				
	Multifunctional Open Collector Terminal	Fault autout and drive assertion made autout	DC 26V 100mA or below				
Output Multifunctional Relay Terminal		Fault output and drive operation mode output	(N.O., N.C.) AC 250V 1A or below, DC 30V 1A or below				
Analogue Output		0 ~ 10 Vdc (20mA or below): Frequency, current, voltage, DC voltage options					

Note 7) According to the parameter setting of IN-65~72, various functions related to multifunctional terminal can be set.

High Performance Drive

200V Class (0.75~22kW)

S	V□□□□iS7-2□		0008	0015	0022	0037	0055	0075	0110	0150	0185	0220
	Hospital and (CT)	(HP)	1	2	3	5	7.5	10	15	20	25	30
Applied	Heavy Load (CT)	(kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Motor Note 1)	Light Load (VT)	(HP)	2	3	5	7.5	10	15	20	25	30	40
	Ligit Load (VI)	(kW)	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30
	Rated Capacity (kVA	Note 2)	1.9	3.0	4.5	6.1	9.1	12.2	17.5	22.9	28.2	33.5
Outenant	Rated Current (A)	СТ	5	8	12	16	24	32	46	60	74	88
Output Rating	Note 3)	VT	8	12	16	24	32	46	60	74	88	124
Rating	Output Frequency (Hz)		0~40	00 (Hz) (Se	nsorless-1	:0~300Hz,	Sensorless	s-2, Vector	:0~120Hz)	Note 4)	
	Output Voltage (V)						3Ø 200~2	230V Note 5)				
	Operational Voltage	(V)				3Ø 2	00~230VA0	C (-15% ~ +	10%)			
Input	Input Frequency (Ha	z)					50~60 (H	z) (±5%)				
Rating	Rated Current (A)	СТ	4.3	6.9	11.2	14.9	22.1	28.6	44.3	55.9	70.8	85.3
	Rateu Cuffent (A)	VT	6.8	10.6	14.9	21.3	28.6	41.2	54.7	69.7	82.9	116.1

200V Class (30~75kW)

	• • • • • • • • • • • • • • • • • • • •												
S	ViS7-2_		0300	0370	0450	0550	0750	-	-	-	-	-	
	Heavy Load (CT)	(HP)	40	50	60	75	100	-	-	-	-	-	
Applied	rieavy Load (CT)	(kW)	30	37	45	55	75	-	-	-	-	-	
Motor Note 1)	Light Load (VT)	(HP)	50	60	75	100	125	-	-	-	-	-	
	Light Load (VI)	(kW)	37	45	55	75	90	-	-	-	-	-	
	Rated Capacity (kVA	Note 2)	46	57	69	84	116	-	-	-	-	-	
0	Rated Current (A)	СТ	116	146	180	220	288	-	-	-	-	-	
Output Rating	Note 3)	VT	146	180	220	288	345	-	-	-	-	-	
Rating	Output Frequency (Hz)	0~400 (Hz) (Sensorless-1: 0~300Hz, Sensorless-2, Vector: 0~120Hz) Note 4)										
	Output Voltage (V)						3Ø 200~2	230V Note 5)					
	Operational Voltage	(V)				3Ø 2	00~230VA0	C (-15% ~ +	10%)				
Input	Input Frequency (Hz	<u>z</u>)					50~60 (H	z) (±5%)					
Rating	Data d Comment (A)		121	154	191	233	305	-	-	-	-	-	
	Rated Current (A)		152	190	231	302	362	-	-	-	-	-	

400V Class (0.75~22kW)

S	V□□□□iS7-4 □		8000	0015	0022	0037	0055	0075	0110	0150	0185	0220
	Heaver Lead (CT)	(HP)	1	2	3	5	7.5	10	15	20	25	30
Applied	Heavy Load (CT)	(kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Motor Note 1)	Light Load (VT)	(HP)	2	3	5	7.5	10	15	20	25	30	40
	Light Load (VI)	(kW)	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30
	Rated Capacity (kVA	Note 2)	1.9	3.0	4.5	6.1	9.1	12.2	18.3	22.9	29.7	34.3
0	Rated Current (A)	СТ	2.5	4	6	8	12	16	24	30	39	45
Output Rating	Note 3)	VT	4	6	8	12	16	24	30	39	45	61
Rating	Output Frequency (I	Hz)		0~40	00 (Hz) (Se	nsorless-1:	:0~300Hz,	Sensorless	-2, Vector:	0~120Hz)	Note 4)	
	Output Voltage (V)						3Ø 380~4	180V Note 5)				
	Operational Voltage	(V)				3Ø 3	80~480VA	C (-15%~+1	10%)			
Input	Input Frequency (Hz	<u>z</u>)					50~60 (H	z) (±5%)				
Rating	Dated Current (A)	СТ	2.2	3.6	5.5	7.5	11.0	14.4	22.0	26.6	35.6	41.6
	Rated Current (A)	VT	3.7	5.7	7.7	11.1	14.7	21.9	26.4	35.5	41.1	55.7

Note 1) The maximum applicable capacity when using a standard 4-pole electric motor is marked. (200V Class is based on 220V and 400V on 440V.)

Note 2) When it comes to the rated capacity, the input capacity of 200V is based on 220V and that of 400V on 440V. The current rating is based on the CT current.

Note 3) The output rated current is limited according to carrier frequency (CON-04) setting.

Note 4) When the control mode (DRV-09 Control Mode) is No.3 Sensorless-1 and No.4 Sensorless-2, the peak frequency of Sensorless-1 can be set up to 300Hz and that of Sensorless-2 up to 120Hz. Note 5) The peak output voltage does not exceed the source voltage. The output voltage can be set within the source (power supply) voltage.

The performance of NON DCR products is guaranteed only for CT (Heavy Duty) load.

400V Class (30~375kW)

5	SV□□□□iS7-4□		0300	0370	0450	0550	0750	0900	1100	1320	1600	1850	2200	2800	3150	3750
	Heaver Lead (CT)	(HP)	40	50	60	75	100	125	150	200	250	300	350	400	500	600
Applied	Heavy Load (CT)	(kW)	30	37	45	55	75	90	110	132	160	185	220	280	315	375
Motor Note 1)	Light Load (VT)	(HP)	50	60	75	100	125	150	200	250	300	350	400	500	600	700
	Ligitt Load (VT)	(kW)	37	45	55	75	90	110	132	160	185	220	280	315	375	450
	Rated Capacity (kVA	A) Note2)	46	57	69	84	116	139	170	201	248	286	329	416	467	557
Outunt	Rated Current (A)	СТ	61	75	91	110	152	183	223	264	325	370	432	547	613	731
Output Rating	Note 3)	VT	75	91	110	152	183	223	264	325	370	432	547	613	731	877
Nating	Output Frequency (Hz)			0~400	(Hz) (Se	ensorle	ss-1:0~	300Hz,	Sensor	less-2, \	/ector:	0~120H	Z) Note 4)		
	Output Voltage (V)							3	Ø 380~4	180V Note	: 5)					
	Operating Voltage (V)						3Ø 380	~480VA	C (-15%	,+10%))				
Input	Input Frequency (Hz)							50	0~60 (H	z) (±5%	6)					
Rating	Datad Current (A)	СТ	55.5	67.9	82.4	102.6	143.4	174.7	213.5	255.6	316.3	404	466	605	674	798
	Rated Current (A)	VT	67.5	81.7	101.8	143.6	173.4	212.9	254.2	315.3	359.3	463	590	673	796	948

400V Class (3.7~30kW)

	SV□□□□iS7-4□		0037	0055	0075	0110	0150	0185	0220	0300	-	-
Applied M	Note 1)	(HP)	5	7.5	10	15	20	25	30	40	-	-
Applied iv	iotor ^{note 1} /	(kW)	3.7	5.5	7.5	11	15	18.5	22	30	-	-
	Rated Capacity (k)	VA) Note 2)	4.5	4.5 6.1 9.1 12.2 18.3 22,9 29.7 34.3								
	Rated Current (A)	VT	8	12	16	24	30	39	45	61	-	-
Output Rating	Note 3)	High- efficiency	7.3	11	14.7	22	27.5	35.8	41.3	55.9	-	-
	Output Frequency	(Hz)					0~400 (Hz) Note 4)				
	Output Voltage (V)					3Ø 380~4	480V Note 5)				
	Operational Voltag	ge (V)				3Ø3	80~480VA	C (-15%, +	10%)			
Innut	Input Frequency (Hz)					50~60 (H	z) (±5%)				
Input Rating		VT	7.7	11.1	14.7	21.9	26.4	35.5	41.1	55.7	-	-
	Rated Current (A)	High- efficiency	7.0	10.2	13.5	20.1	24.2	32.6	37.7	51.0	-	-

400V Class (37~220kW)

	SV□□□□iS7-4□		0037	0450	0550	0750	0900	1100	1320	1600	1850	2200
Applied M	lotor Note 1)	(HP)	50	60	75	100	125	150	200	250	300	350
Applied iv	iotoi *****	(kW)	37	45	55	75	90	110	132	160	185	220
	Rated Capacity (k)	VA) Note 2)	46	46 57 69 84 116 139 170 201 248 286								286
	Rated Current (A)	VT	75	91	110	152	183	223	264	325	370	432
Output Rating	Note 3)	High- efficiency	68.8	83.4	100.8	139.3	167.8	204.4	242	297.9	339.2	396.0
	Output Frequency	(Hz)		0~40	0 (Hz) (Ser	nsorless-1:	0~300Hz,	Sensorles	s-2, Vector	: 0~120Hz	Note 4)	
	Output Voltage (V)					3Ø 380~	480V Note 5)				
	Operational Voltag	ge (V)				3Ø3	80~480VA	C (-15%, +	10%)			
Innut	Input Frequency (Hz)					50~60 (H	z) (±5%)				
Input Rating		VT	67.5	81.7	101.8	143.6	173.4	212.9	254.2	315.3	359.6	463
	Rated Current (A)	High- efficiency	61.9	74.9	93.3	131.6	159.0	195.1	233.0	289.0	329.4	424.4

Note 3) The output rated current is limited according to E carrier frequency (CON-04) setting.

Note 4) When the control mode (DRV-09 Control Mode) is No.3 Sensorless-1 and No.4 Sensorless-2, the peak frequency of Sensorless-1 can be set up to 300Hz and that of Sensorless-2 up to 120Hz.

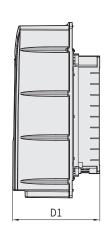
Note 5) The peak output voltage does not exceed the source voltage. The output voltage can be set within the source (power supply) voltage.

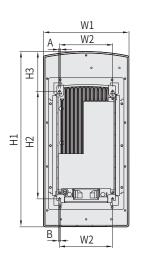
The performance of NON DCR products is guaranteed only for CT (Heavy Duty) load.

High Performance Drive

Product Dimension

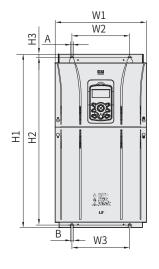






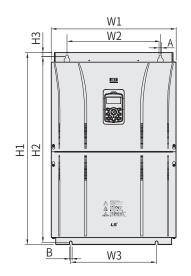
Unit: mm (inches)

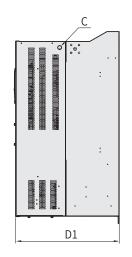
Model	W1	W2	H1	H2	Н3	D1	Α	В	
SV0008~0037iS7-2/4	150 (5.90)	127 (5.00)	284 (11.18)	257 (10.11)	18 (0.70)	200 (7.87)			
SV0037iS7/0055iS7-4 (E)	130 (3.30)	127 (5.00)	204 (11.10)	257 (10.11)	10 (0.70)	200 (1.01)	5 (0	10)	
SV0055~0075iS7-2/4	200 (7.87)	176 (6.92)	355 (13.97)	327 (12.87)	19 (0.74)	225 (8.85)	3 (0	.19)	
SV0075iS7/0110iS7-4 (E)	200 (1.61)	170 (0.32)	333 (13.91)	321 (12.01)	19 (0.14)	223 (6.63)			
SV0110~0150iS7-2/4	250 (9.84)	214.6 (8.44)	385 (15.15)	355 (13.97)	23.6 (0.92)	284 (11.18)			
SV0150iS7/0185iS7-4 (E)	230 (3.64)	214.0 (0.44)	363 (13.13)	333 (13.91)	23.0 (0.92)	204 (11.10)	6.5 (n 25)	
SV0185~0220iS7-2/4	280 (11.02)	243.5 (9.58)	461.6 (18.17)	445 (17.51)	10.1 (0.39)	298 (11.73)	0.5 (0.23)	
SV0220iS7/0300iS7-4 (E)	200 (11.02)	243.3 (3.36)	401.0 (10.11)	773 (11.31)	10.1 (0.39)	230 (11.13)			





Model	W1	W2/W3	H1	H2	Н3	D1	Α	В	С
SV0300iS7-2	300 (11.81)	190 (7.48)	570 (22.44)	552 (21.73)	10 (0.39)	265.2 (10.44)	10 (0.39)		M8
SV0370~0450iS7-2	370 (14.56)	270 (10.63)	630 (24.8)	609 (23.97)	11 (0.43)	281.2 (11.07)			M10
SV0550~0750iS7-2	465 (18.3)	381 (15.0)	750 (29.52)	723.5 (28.48)	15.5 (0.61)	355.6 (14.0)	11 (11 (0.43)	





Model	W1	W2	W3	H1	H2	Н3	D1	Α	В	С
SV0900/1100iS7-4				783.5						
SV1100/1320iS7-4(E)	510	381	350	(30.84)	759	15.5	422.6	1	1	M16
SV1320/1600iS7-4	(20.07)	(15.0)	(13.77)	861	(29.88)	(0.61)	(16.63)	(0.	43)	INITO
SV1600/1850iS7-4(E)				(33.89)						
SV1850/2200iS7-4	690 (27.16)	581 (22.87)	528 (20.79)	1078 (42.44)	1043.5 (41.08)	25.5 (1.00)	450 (17.72)	14 (0.55)	15 (0.59)	M20
SV2800iS7-4	771 (30.35)	_	500 (19.69)		1110 (43.70)	15	440 (17.32)	13 (0.51)		M16
SV3150/3750iS7-4	922 (36.30)	_	80 .83)	1302.5 (51.28)	1271.5 (43.70)	(0.59)	495 (19.49)		.4 55)	INITO



- 3Ø 200V 2.2~37kW
- 3Ø 400V 2.2~800kW
- DC input type 400V 5.5~500kW







200/400VAC(Press Type) Eertification up to 220kW





IS09001 IS014001



iV5, an optimal drive solution for high-performance system

It is a specialized drive for continuous line, crane system and elevator system control based on powerful functions and performance.



Installed With High-performance Control Functions

It is equipped with high-performing control functions, including high-performance speed/torque control; SIN/COS; super-precision control based on Endat encoder; static auto tuning; Draw/Droop/Process PID control; and built-in brake control.



User-centered Interface

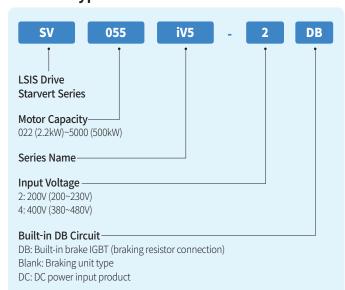
It supports systems and efficient management with user-centered keypads and terminal blocks, communication networks and Drive View.



Intended Use

- Metal (winder, hoist)
- Textile (threading, spinning)
- Plastic, rubber (winder)
- Food and beverage (Packing, Cutting and Labeling machines)
- Paper, pulp (winder, printer and slitter)
- Coal mine (crane, hoist)
- Crane, hoist

Product Type & Model



Main Function

Features	Description	Benefits
Improved System-centered Functions	Installed with advanced functions, including high- performance speed/torque control based on 200% instantaneous torque control; position/ synchronization control; and brake control	An optical solution for vertical load application, including continuous lines, cranes and elevators
Exclusive for Elevators	High-accuracy position control and exclusive machine room-less drive	Safe and efficient elevator operation guaranteed
Equipped With Various Options	Synchronization option, encoder option, scalable I/O, I/O option for elevators and etc.	Widely applied to various vector applications
Various Interfaces	RS485, Modbus-RTU, Device Net, Profibus-DP and CC-Link communication network options	Connectable to commonly used field networks; simple maintenance of option cards; and easier mounting

Control

Circuit Type		Voltage-type drive using IGBT						
Control Mode		Controlling vector attached with a speed sensor and sensor-less vector						
Speed Control	Level	Analogue setting: $\pm 0.1\%$ of the maximum speed (1800rpm) (25 $\pm 10^{\circ}$ C) Digital setting: $\pm 0.1\%$ of the maximum speed (1800rpm) (0~40°C)						
Speed Setting Resolution		Analogue setting: $\pm 0.1\%$ of the maximum speed / Digital setting: $0.1 \mathrm{rpm}$						
Speed Control	Response Speed	50Hz						
Torque Control	Level	±3%						
Overload Tolera	ance	Continuous (CT): 150% / 1min						
	Time Setting	0.00~6000.0						
Acceleration/ Deceleration	Combination	4 types of acceleration/deceleration time options						
Pattern		Linear, S-Curve						

Brake

Braking Mode	Discharge-resistant braking
Braking Torque	150%
Braking Resistance	A separate braking resistor should be installed outside

200V Class (AC Power Input Type)

SV□	□□ iV5-2	022	037	055	075	110	150	185	220	300	370
Applied Motor	(HP)	3	5	7.5	10	15	20	25	30	40	50
Note 1)	(kW)	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
	Capacity (kVA) Note2)	4.5	6.1	9.1	12.2	17.5	22.5	28.2	33.1	46	55
Outrout Dating	Rated Current (A)	12	16	24	32	46	59	74	88	122	146
Output Rating	Output Speed					0~3600	(rpm)				
	Output Voltage					200~23	OV Note 3)				
Innut Dating	Voltage				3Ø	200~230V	(-10%~+10)%)			
Input Rating	Frequency					50~60H	z (±5%)				
Drive Weight (kg)		6	6	7.7	7.7	13.7	13.7	20.3	20.3	42	42

400V Class (AC Power Input Type)

	•	71	•								
SV□	ı□□ iV5-4	022	037	055	075	110	150	185	220	300	370
Applied Motor	(HP)	3	5	7.5	10	15	20	25	30	40	50
Note 1)	(kW)	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
	Capacity (kVA) Note2)	4.5	6.1	9.1	12.2	18.3	22.9	29.7	34.3	46	57
Outrast Batina	Rated Current (A)	6	8	12	16	24	30	39	45	61	75
Output Rating	Output Speed					0~3600	(rpm)				
	Output Voltage					380~48	OV Note 3)				
Innut Dating	Voltage				3Ø 38	30~480V (-1	.0%~+10%) Note 4)			
Input Rating	Frequency					50~60H	z (±5%)				
Drive Weight (kg)	6 6 7.7 7.7 13.7 13.7 20.3 20.3 42 42							42		

SV□	□□ iV5-4	450	550	750	900	1100	1320	1600	2200	2800	3150	3750	5000	8000
Applied Motor	(HP)	60	75	100	120	150	175	215	300	373	420	500	666	1067
Note 1)	(kW)	45	55	75	90	110	132	160	220	280	315	375	500	800
	Capacity (kVA) Note2)	70	85	116	140	170	200	250	329	416	468	557	732	1105
Output Dating	Rated Current (A)	91	110	152	183	223	264	325	432	546	614	731	960	1384
Output Rating	Output Speed						0~	3600 (rp	m)					
	Output Voltage						380	0~480V N	ote 3)					
Innut Dating	Voltage					3Ø:	380~480	V (-10%	~+10%)	Note 4)				
Input Rating	Frequency						50~	60Hz (±	5%)					
Drive Weight (kg)		63	63	68	98	98	122	122	175	243	380	380	1300	

Note 1) The maximum allowable capacity is marked when using a standard 4-pole motor. (200V Class is based on 220V and 400V Class on 440V.)

Note 2) The rated capacity (=√3*V*I) is 220V for 200V Class and 440V for 400V Class.

Note 3) The maximum output voltage does not exceed the source voltage.

Note 4) When the input voltage is 480V or above, 10% derating of the rated current should be performed

400V Class (DC Power Input Type)

SV□□	□□ iV5-4(DC)	055	075	110	150	185	220	300	370	450	550
Applied Motor	(HP)	7.5	10	15	20	25	30	40	50	60	75
Note 1)	(kW)	5.5	7.5	11	15	18.5	22	30	37	45	55
	Capacity (kVA) Note 2)	9.1	12.2	18.3	22.9	29.7	34.3	46	57	70	85
Outrout Dating	Rated Current (A)	12	16	24	30	39	45	61	75	91	110
Output Rating	Output Speed					0~3600	(rpm)				
	Output Voltage					380~48	30V Note 3)				
Input Rated Volt	age				D	C 540~680\	/ (+10%) No	te 4)			
Drive Weight (kg)	12	12	24	24.5	5 25 25 38.5 38.5 50					50
SV□[□ iV5-4(DC)	750	900	1100	1320	1600	2200	2800	3150	3750	5000
Applied Motor	(UD)	100	120	150	175	215	300	373	420	500	ccc
Applied Moloi	(HP)	100	120	130	113	213	000			300	666
Note 1)	(KW)	75	90	110	132	160	220	280	315	375	500
	, ,									-	
Note 1)	(kW)	75	90	110	132	160	220	280	315	375	500
	(kW) Capacity (kVA) Note 2)	75 116	90 140	110 170	132 200	160 250 325	220 329	280 416	315 468	375 557	500 732
Note 1)	(kW) Capacity (kVA) Note 2) Rated Current (A)	75 116	90 140	110 170	132 200	160 250 325 0~3600	220 329 432	280 416	315 468	375 557	500 732
Note 1)	(kW) Capacity (kVA) Note 2) Rated Current (A) Output Speed Output Voltage	75 116	90 140	110 170	132 200 264	160 250 325 0~3600 380~48	220 329 432 0 (rpm)	280 416 546	315 468	375 557	500 732

MRL

SV□□	□ iV5-4(MRL)	075	110	150	220					
Applied Motor	(HP)	10	15	20	30					
Note 1)	(kW)	7.5	11	15	22					
	Capacity (kVA) Note2)	13.7	20.6	27.5	39.6					
Output Bating	Rated Current (A)	18	27	36	52					
Output Rating	Output Speed		0~200							
	Output Voltage		380~48	OV Note 3)						
Innut Dating	Voltage		3Ø 380~480V (-1	.0%~+10%) Note 5)						
Input Rating	Frequency	50~60Hz (±5%)								
Drive Weight (kg)	14	14	18.7	19					

Note 1) The maximum allowable capacity is marked when using a standard 4-pole motor. (200V Class is based on 220V and 400V Class on 440V.)

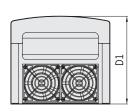
Note 2) The rated capacity (=√3*V*I) is 220V for 200V Class and 440V for 400V Class.

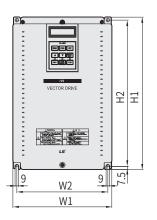
Note 3) The maximum output voltage does not exceed the source voltage.

Note 4) When the input voltage is 680VDC or above, 10% derating of the rated current should be performed.

Note 5) When the input voltage is 507-528V, 10% derating of the rated current should be performed.

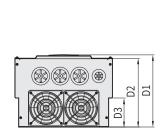
Product Dimension

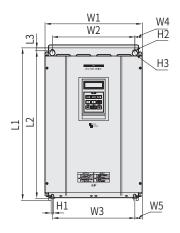




Unit: mm (inches)

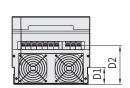
Model	W1	W2	H1	H2	D1
SV022iV5-2/4DB (MD) SV037iV5-2/4DB (MD)	200 (7.87)	180 (7.08)	284 (11.18)	269 (10.59)	207 (8.14)
SV055iV5-2/4DB (MD) SV075iV5-2/4DB (MD)	200 (1.01)	100 (1.00)	355 (13.97)	340 (13.38)	202 (7.95)
SV110iV5-2/4DB (MD) SV150iV5-2/4DB (MD)	250 (9.84)	230 (9.05)	385 (15.15)	370 (14.56)	221 (8.70)
SV185iV5-2/4DB (MD) SV220iV5-2/4DB (MD)	340 (13.38)	284 (11.18)	460 (18.11)	445 (17.51)	254 (10.00)



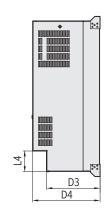


Model	W1	W2	W3	W4	W5	L1	L2	L3	D1	D2	D3	H1	H2	Н3
SV055iV5-2/4DB	234.4	180		27.2		406.2	391.2	7.5	221.1	209.5	75	6	Ф6	Ф12
SV075iV5-2/4DB	(9.22)	(7.0	08)	(1.	(1.07)		(15.40)	(0.29)	(8.70)	(8.24)	(2.95)	(0.23)	(Ф0.23)	(Ф0.47)
SV110 iV5-2/4DB														
SV150iV5-2/4DB	335	28	34	25	5.5	526	509	10	248.6	237	100	7	Ф7	Ф14
SV185iV5-2/4DB	(13.18)	(13.18) (11.18)		(1.	(1.00)	(20.70)	(20.03)	(0.39)	(9.78)	(9.33)	(3.93)	(0.27)	(Ф0.27)	(Ф0.55)
SV220iV5-2/4DB														

^{*} The dimension of DC Input Type products is same as that of AC Input Type ones.

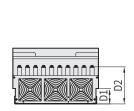


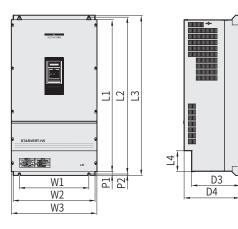




Unit: mm (inches)

Model	W1	W2	W3	W4	L1	L2	L3	D1	D2	D3	D4	P1	P2
SV300iV5-2/4	2	70	319.2	350	635	660	680	120	197	256.6	308.2	16.9	8
SV370iV5-2/4	(10	(10.62)		(13.77)	(25.00)	(25.98)	(26.77)	(4.72)	(7.75)	(10.10)	(12.13)	(0.66)	(0.31)
SV450iV5-4													
SV550iV5-4		275 (10.82)	359.6 (14.15)	375 (14.76)	730.6 (28.76)	758.5 (29.86)	780 (30.70)	82.3	189.3 (7.45)	259 (10.19)	326 (12.83)	24.5 (0.96)	10.5 (0.41)
SV750iV5-4	(10	(10.02)		(2)	(20.10)	(23.00)	(30.10)	(5.21)	()	(10.15)	(12.00)	(0.50)	(0.11)

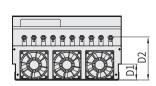


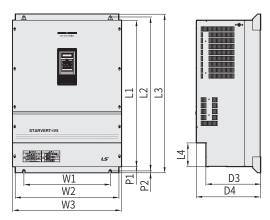


Model	W1	W2	W3	L1	L2	L3	D1	D2	D3	D4	P1	P2		
SV900iV5-4		507 (19.96)	530 (20.86)	729	760	780	83.2	234.6	286.2	335				
SV1100iV5-4	430			530	(28.70)	(29.92)	(30.70)	(3.27)	(9.23)	(11.26)	(13.18)	23.5	8.5	
SV1320iV5-4	(16.92)			(20.86)	(20.86)	949	980	1000	95.2	231.6	298	345	(0.92)	(0.33)
SV1600iV5-4					(37.36)	(38.58)	(39.37)	(3.74)	(9.11)	(11.73)	(13.58)			

^{*} The dimension of DC Input Type products is same as that of AC Input Type ones.

Product Dimension

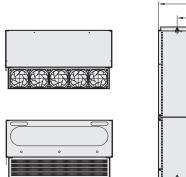


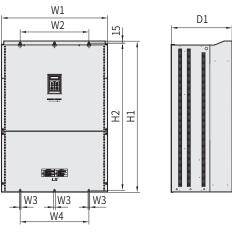


Unit: mm (inches)

Model	W1	W2	W3	L1	L2	L3	L4	D1	D2	D3	D4	P1	P2
SV2200iV5-4	540	649	680	922	968.5	998	150	100.2	271	343	403	38	12
	(21.25)	(25.55)	(26.77)	(36.29)	(38.12)	(39.29)	(5.90)	(3.94)	(10.66)	(13.50)	(15.86)	(1.49)	(0.47)

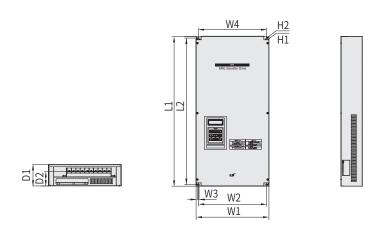
^{*} The dimension of DC Input Type products is same as that of AC Input Type ones.





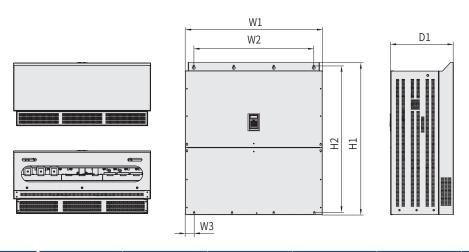
Model	W1	W2	W3	W4	H1	H2	D1	
SV2800iV5-4	772 (30.39)	500 (19.68)	13 (0.51)	500 (19.68)	1140.5 (44.90)	1110 (43.70)	442 (17.40)	
SV3150iV5-4	922 (36.29)	580 (22.83)	14 (0.55)	580 (22.83)	1302.5 (51.27)	1271.5 (50.05)	495 (19.48)	
SV3750iV5-4	922 (30.29)	360 (22.63)	14 (0.55)	360 (22.63)	1302.3 (31.21)	1271.3 (30.03)	495 (19.46)	

^{*} The dimension of DC Input Type products is same as that of AC Input Type ones.



Unit: mm (inches)

Model	W1	W2	W3	W4	L1	L2	D1	D2	H1	H2
MRL 075-4	330	310	7	310	680	666 (26.22)	97.2	64.7	14	7
MRL 110-4	(12.99)	(12.20)		(12.20)	(26.77)		(3.82)	(2.54)		
MRL 150-4	275 (14.76)	355 (13.97)	(0.27)	355 (13.97)	700 (27.55)	696 (27 00)	108.5 (4.27)	75.7	(0.55)	(0.27)
MRL 220-4	313 (14.10)	333 (13.91)				686 (27.00)	139.2 (5.48)	101.3		



Model	W1	W2	W3	H1	H2	D1
SV5000iV5-4	1200 (47.24)	1050 (41.33)	75 (2.95)	1330 (52.36)	1280 (50.39)	550 (21.65)

Guide to LSIS Drive Options

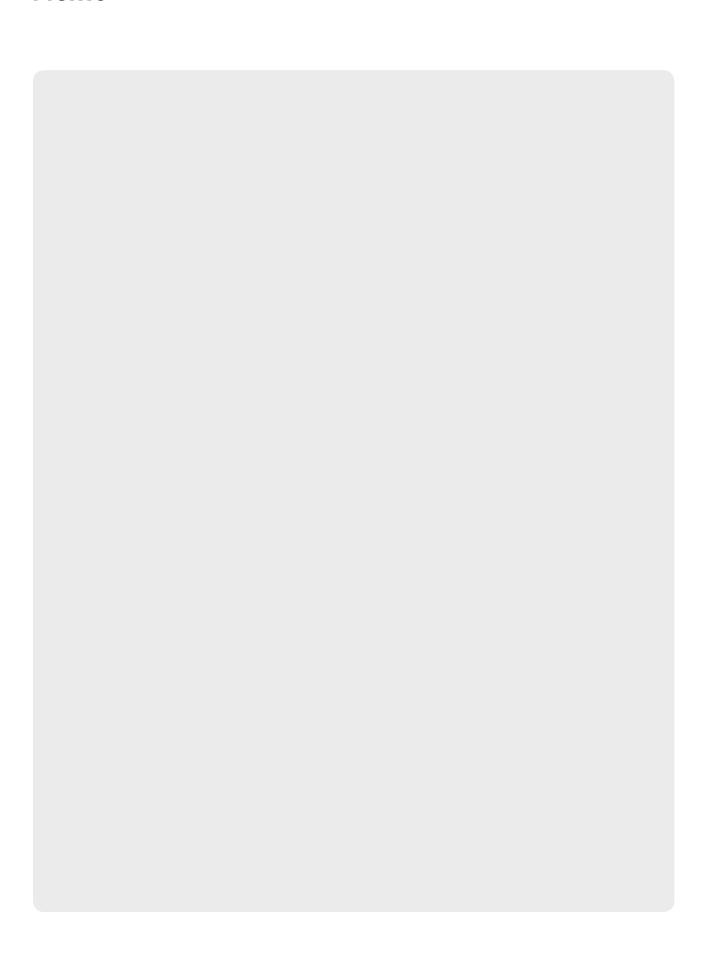
The table below describes a list of options for various LSIS drives. Please contact LSIS for further details on our drive options.

Series	Option Name						
Series	•						
M100	M100 remote keypad						
	Remote cable (1m, 2m, 3m, 5m)						
iE5	Modbus RTU communication card						
iG5A	iG5A remoted keypad Remoted cable (2m, 3m, 5m)						
	Remoted cable (2m, 3m, 5m)						
	2 Port Ethernet/IP (Modbus TCP) communication card						
	Profibus-DP communication card						
G100	CANopen communication card						
	G100 remote keypad *						
	Remote cable (1m, 2m, 3m, 5m)						
	Modbus TCP communication card						
	PROFInet communication card						
	EtherCAT communication card						
	EtherNet/IP communication card						
6100	Profibus-DP communication card						
S100	CANopen communication card						
	Scalable I/O card						
	S100 LCD keypad						
	S100 remote keypad (LED)						
	Remote cable (1m, 2m, 3m, 5m)						
	Lonworks communication card						
H100	H100 remote keypad						
	Remote cable (1m, 2m, 3m, 5m)						
	EtherNet/IP communication card						
	RAPIEnet communication card						
	PROFInet communication card						
	Modbus TCP communication card						
	DeviceNet communication card						
	CANopen communication card						
	Profibus-DP communication card						
	CC-Link communication card						
	Lonworks communication card						
	R-Net / F-Net communication card						
iS7	Encoder option card						
	24V encode option card						
	Position control card						
	Synchronization control card						
	Scalable I / O card						
	PLC option						
	Safety option						
	Binary Input						
	iS7 LCD keypad						
	Remote cable (2m, 3m)						

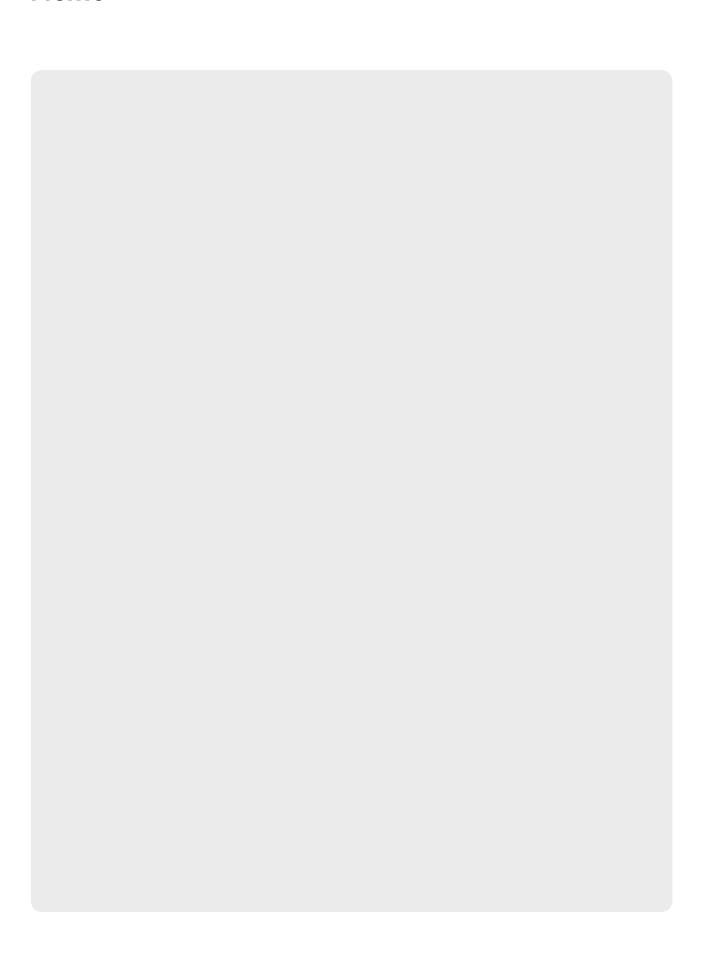
Option Name
RS-485 communication card
Modbus RTU communication card
DeviceNet communication card
Profibus-DP communication card
CC-Link communication card
Synchronization option
EL / IO card
SIN / COS + Endat option
Scalable I / O card
24V encode option card
Parameter Copy Unit
Smart Copier

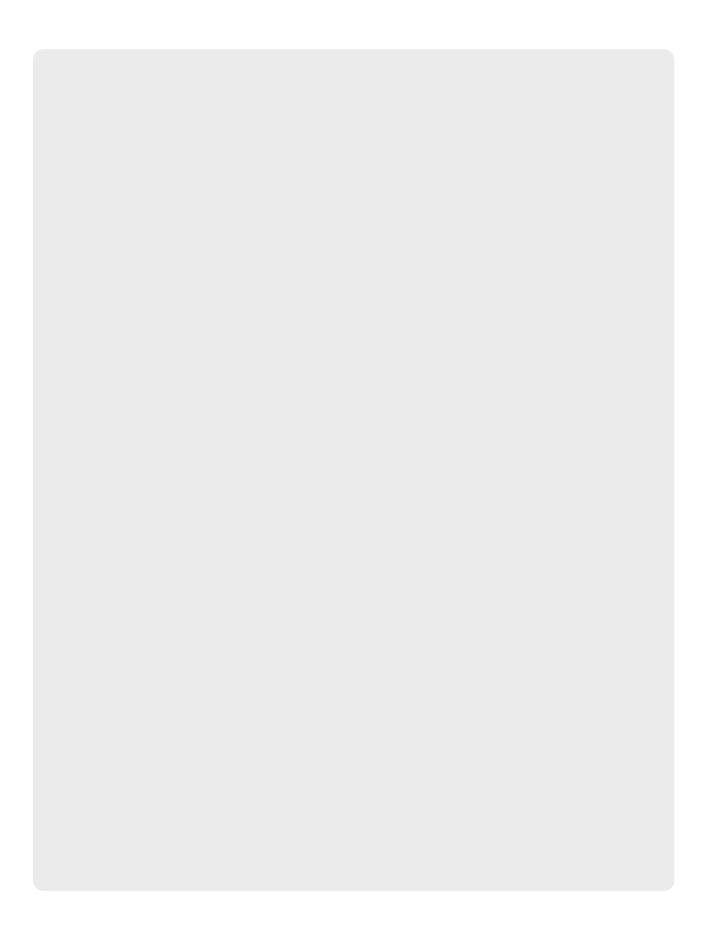
 $[\]begin{tabular}{ll} \star & $\mathsf{G}100/\mathsf{M}100$ remote keypads are compatible. \end{tabular}$

Memo



Memo







We open up a brighter future through efficient and convenient energy solutions.



Safety Instructions

- For your safety, please read user's manual thoroughly before operating.
- Contact the nearest authorized service facility for examination, repair, or adjustment.
- Please contact qualified service technician when you need maintenance.

 Do not disassemble or repair by yourself!
- Any maintenance and inspection shall be performed by the personnel having expertise concerned.



• According to The WEEE Directive, please do not discard the device with your household waste.



■ Head Quarter

LS-ro 127(Hogye-dong) Dongan-gu, Anyang-si, Gyeonggi-Do, 14119, Korea Tel: 82-2-2034-4902, 4684, 4429 Fax: 82-2-2034-4555

■ Overseas Subsidiaries

•LSIS Europe B.V. (Amsterdam, Netherlands)

Tel: 31-20-654-1420 Fax: 31-20-654-1429 E-Mail: europartner@lsis.com

•LSIS Middle East FZE (Dubai, U.A.E.)

Tel: 971-4-886-5360 Fax: 971-4-886-5361 E-Mail: hschoib@lsis.com

•LSIS USA Inc. (Chicago, U.S.A.)

Tel: 1-800-891-2941 Fax: 1-847-383-6543 E-Mail: sales.us@lsis.com

•LSIS Japan Co., Ltd. (Tokyo, Japan)

Tel: 81-3-6268-8241 Fax: 81-3-6268-8240 E-Mail: jschuna@lsis.com

•LS VINA Industrial Systems Co., Ltd. (Hanoi, Vietnam) Tel: 84-24-3882-0222 Fax: 84-24-3882-0220 E-Mail: jhchoi4@lsis.com

•LSIS(Dalian) Co., Ltd. (Dalian, China)

Tel: 86-411-8730-7510 Fax: 86-411-8730-7560 E-Mail: jiheo@lsis.com

•LSIS(Wuxi) Co., Ltd. (Wuxi, China)
Tel: 86-510-8534-6666-8005 Fax: 86-510-8534-4078 E-Mail: sunhwank@lsis.com

www.lsis.com

•LSIS Beijing Office (China)

Tel: 86-10-5761-3127 Fax: 86-10-5761-3128 E-Mail: sson@lsis.com

•LSIS Guangzhou Office (China)

Tel: 86-20-8326-6784 Fax: 86-20-8326-6287 E-Mail: sojhtroh@lsis.com

•LSIS Qingdao Office (China)

Tel: 86-532-8501-6058 Fax: 86-532-8501-6057 E-Mail: sson@lsis.com

•LSIS Chengdu Office (China)

Tel: 86-28-8670-3200 Fax: 86-28-8670-3203 E-Mail: yangcf@lsis.com

•LSIS ShenYang Office (China)

Tel:86-24-2321-9050 Fax: 86-24-8386-7210 E-Mail: yangcf@lsis.com

•LSIS Jinan Office (China)

Tel: 86-531-8699-7826 Fax: 86-531-8697-7628 E-Mail: yangcf@lsis.com

LSIS Co., Ltd. Tokyo Office (Japan)

Tel: 81-3-6268-8241 Fax: 81-3-6268-8240 E-Mail: jschuna@lsis.com

•LSIS Co., Ltd. Rep. Office (Vietnam)

•LSIS Moscow Office (Russia)

•LSIS Jakarta Office (Indonesia)

•LSIS Bangkok Office (Thailand)

Tel: 66-2-053-9133 E-Mail: sjleet@lsis.com