



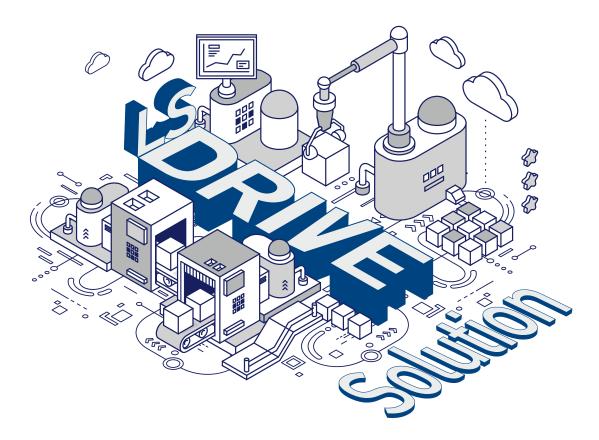


Low-Voltage Drive M100 / G100 / S100 / H100 / iS7 / iV5



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Leading Innovation, Creating Tomorrow

Realization of innovative energy saving with LSIS Drive Solution.

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.

Supplies 40% of the drives distributed in Korea

40

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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.



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.

For Purchase to Maintenance With our Experts

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.



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.

- General Drive G100
- Micro Drive M100
- Standard Drive S100
- Fan & Pump Drive H100Standard Drive S100 (NEMA4X IP66)
- Fan/Pump-only Drive H100
- - High Performance Drive iS7
 Standard Drive S100
 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



Convenient Installation & Test Run



Fast & Convenient A/S





LSIS Drive Comparison Table

		M	100						
	Model name	Standard I/O	Advanced I/O	G100					
Voltage & C	apacity	1Ø 200~240	DV 0.1~2.2kW	3Ø 200V 0.4~7.5kW 3Ø 400V 0.4~7.5kW					
	V/F Control	Standar	rd built-in	Standard built-in					
Control Method	Sensor-less Vector		-	Standard built-in					
Method	Sensored Vector		-	-					
	Multifunction Terminal	3points(P1~P3)	5points(P1~P5)	5points(P1~P5)	ŗ				
Input Terminal	Analogue Input (Current)	logue Input (Current)		1point(0~20mA)	1				
Terminat	Analogue Input (Voltage)	1point(0~10V)	1point(0~10V)	1point(0~10V)					
	Relay Output	1point(3 port)	2points(5 port)	2점(5 port)					
Output	Open Collector Ooutput	1point(2 port)	-	-					
Terminal	Analogue Output	1point(0~10V)	1point(0~10V)	1point(1 port)	C				
Enclosure Class		IF	220	0.4~7.5kW: IP20 (standard), UL Type 1 (option)					
Keypad	Fixed type(7-segment)		Fixed type (7-segment)	Fixed t					
Remote Cable		1m/2m	/3m /5m	1m/2m/3m/5m					
Brake Unit		Standard buil	t-in (1.5~2.2kW)	Standard built-in(0.4~7.5kW)					
EMC Filter		Standard buil	t-in (0.4~2.2kW)	Standard built-in (0.4~7.5kW)	C				
DC Reactor			-	-					
Communica	ations		5485 Standard built-in)	Modbus RTU (Standard built-in) CANopen Profibus-DP EtherNet/IP(option)	Et				
Cooling Sys	tem								
Ambient Te	mperature			-10°C~50°C(2.5% /°C curr	ent derati				
Ambient Hu	imidity				Relativ				
Storage Ter	nperature								
Surroundin	g Environment			Withou	t corrosive				
Altitude				1,000m above sea level (Fro	m 1,000m				
Vibration									
Ambient Ai	Pressure								
Protective Function	Alarm	Quarter	Stall prevention, over Overvoltage, overcurrent, undervoltage, external trip, grounding current detection, drive overheat, electric m						
, unction	Trip	Overvoltage, overcurrent	t, undervoltage, external trip, gro	unding current detection, drive overheat,	electric m				

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

LS Drive Solution









S	100	11100	:07	1) (F	
Standard I/O	Mutiple I/O	H100	iS7	iV5	
3Ø 200~24	DV 0.4~2.2kW DV 0.4~15kW DV 0.4~75kW	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	
Standar	rd built-in	Standard built-in	Standard built-in	-	
Standar	rd built-in	-	Standard built-in	Standard built-in	
	-	-	Option	Standard built-in	
points(P1~P5)	7points(P1~P7)	7points(P1~P7)	8points(P1~P8)	11points(FX, RX, BX, RST, P1~P7)	
point(0~10V or	1point(0~10V	1point(0~20mA)	1point(0~20mA)	3points (2points : 0~10V, 020mA,	
0~20mA)	or 0~20mA)	1point(0~10V)	1point(0~10V, -10V~+10V)	1point:0~10V)	
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)	
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)	
0.4~75kW: IP20 (standard), UL Type 1 (option) 0.4~22kW: IP66 (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	
ype (7-segment): 0.4~22kW Removal type (LCD graphic) : 30-75kW		Removal type	Removal type	Removal type	
1m/2m	/3m/5m	1m/2m/3m/5m	2m /3m	-	
	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)	
Standar (400V class	/ 0.4~2.2kW, 400V 0.4~4kW) rd built-in 5.5kW~22kW) on (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)	
Modbus TC	dard built-in) CP, EtherCAT, ofibus-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)	
Forced air c	cooling by fan				
ng at 40°C or above 75%	of the rated current operable at 50°C	C); without any ice or frost			
e humidity 95% RH or be	low (without any dew formation)				
-20°C	∵~ 65°C				
gas, flammable gas, oil	residue and dust at the indoor enviro	onment			
or more, voltage/output	current derating by 1% for every 10	0m elevation; up to 4,000m)			
9.8m/sec2(2	1.0G) or below				
70~1	106kPa				
oad, light load, fan failui	re, keypad command loss, speed cor	nmand 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			ре			eed que				Series		
	Application		Gravity	Fluid Load	Inertia Load	ст	VT	M100	G100	ew \$100	H100	iS7	iV5
	Fan	Load	Load		Lodu		•						
\sim	Pump			•			•						
HVAC Refrigerator	Compressor			•		•							
	Fan			•			•						
	Pump			•			•						
	Compressor			•		٠							
	Conveyor	•				٠							
\sim	Press				•	٠							
- Ch	Winder (Drawing Machine)				•	٠							
	Winder (Stranding Machine)				•	٠							
letals & Materials	Hoist (Hoist)		•			٠							
Management	Hoist (Trolley, Gantry)	•				٠							
	Synchronized Position Control (Grinder)	•			•	•							
	Synchronized Position Control (Automatic Lathe)	•			•	•							
	E/L (High Speed)		•			•							
\sim	E/L (Low Speed)		•			٠							
In 1	Synchronized Position Control (Door Open/Close)	•				•							
Elevator &	Escalator	•				•							
Escalator	Multistory Parking Space		•			•							
	Fan			•			•						
	Pump			•			•						
	Compressor			•		٠							
	Spinning Machine				_								
A star	(Threading & Spinning)				•	•							
	Winder (Weaving)				•	٠							
	Winder (Knitting)				•	٠							
Textiles	Washing & Drying (Washer & Dryer)			•	•	•							
	Printing												
	Extruder	•				•							
	Hoist (Hoist)		•			•							
	Hoist (Trolley, Gantry)	•				•							
	Fan / Blower			•			•						
	Pump			•			•						
	Compressor			•		•							
NAS	Conveyor	•				•							
(న)	Mixer			•		•							
	Extruder	•				•							
Plastic & Rubber	Screw & Vibration Feeder				•	•							
	Injection Molding	•				•							
	Winder				•	•							
	Hoist (Hoist)		•			٠							
	Hoist (Gantry, Trolley)					٠							
	Fan			•			•						
	Pump			•			•						
	Compressor			•		•							
Å	Conveyor	•				•							
	Hoist (Hoist)		•			•							
Energy	Hoist (Gantry, Trolley)					•							
- 37	High-capacity Fan & Pump			-			-						
	(Power Generation Industry)			•			•						

Optimal Suitable

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.	 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.
A refrigerator requires diverse analogue inputs and contact outputs for constant temperature control.	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 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: H100 For CT load: iS7 / iV5 / iV5L For low-capacity load: S100 Products that meet various process features may be chosen. In particular, iS7, S100 built-in with S/W exclusive for winders uses WEE 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 iS7 installed with S/W exclusive for winders along with synchronization and position control is one of the representative products. S100 built-ir 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.	 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.

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Guide to LSIS Drive Options

		Type Speed Torque				Drive	Series							
	Application	Friction Load	Gravity Load	Fluid Load	Inertia Load	СТ	VT		G100	ew \$100	H100	iS7	iV5	
	Fan			•			•							
	Pump			•			•							
	Compressor			٠		٠								
	Conveyor	•				٠								
Sil	Winch (Hoist)		•			٠								
Marin	Winch (Gantry, Trolley)	•				٠								
	Hoist (Hoist)		•			٠								
	Hoist (Gantry, Trolley)					٠								
	Fan			•			•							
	Pump			•			•							
	Compressor			٠		٠								
	Conveyor	٠				٠								
ۍ.	Mixer			•		٠								
1077	Extruder	•				•								
	Packing Machine	•				•								
Food & Beverage	(Synchronization, Position Control)						L							
	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				•	•								
\checkmark	Drying Machine	•			•	-	•							
Pulp&Paper	Coating Machine	•				•	-	1						
	Slitter	•				•								
	Hoist (Hoist)		•			•								
	Hoist (Gantry, Trolley)					•								
	Fan			•			•							
	Pump			•			•							
	Compressor			•		٠								
	Conveyor	•				٠								
);ed	Crusher / Drill Machine	•				٠								
	Excavators													
Mining	Crane (Hoist)		•			٠								
	Crane	•				•								
	(Gantry/Trolley, Rotating/Turning)													
	Hoist (Hoist)		•			•								
	Hoist (Gantry, Trolley)					•								
	Fan (Blower)			•			•							
R \\ \\ \\ \\	Oil & Rod Pump			•		-	•							-
	Compressor			•		•								
Oil&Gas Chemical	Conveyor	•		-		•								
Ond das Chemical	Mixer			•		•								
	Extruder Crane (Hoist)		•			•								
	Crane (Hoist)		•											
	(Gantry/Trolley, Rotating/Turning)	٠				٠								
₿ J	Hoist (Hoist)		•			•								
	Hoist (Gantry, Trolley)		-			•								
Crane & Hoist	Automatic Warehouse (Lift)		•			•								
	Automatic Garage (Gantry)	•	-			•								
лл	Fan			•										
	Pump			•			•							1
	Compressor			•		•	•							1
Water & Wastewater				•		•								1
Ontimal	Suitable													

Optimal Suitable

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 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)	• 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



CE



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

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



Compact

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



Convenient Use

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

Intended Use

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

Product Type & Model

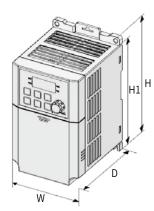
LSLV 0022 M100 -	1 E	0	F	N	S
LS Low Voltage Drive Series					
Motor Capacity 0001: 0.1kW~0022: 2.2kW					
Series Name					
Input Voltage 1: 1Ø 200V-240V					
Keypad E: LED Keypad					
UL Type O: UL Open Type					
EMC Filter F: Built-in EMC Filter (C2)					
Reactor N: Non-Reactor					
I/O S: Standard / A-Advanced					

Main Functions

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

I/O Standard

LSLV	<u>]]]</u>]М100-Е	OFN□	0001	0002	0004	0008	0015	0022		
Applied	Howard	(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 Curren	t (A)	0.8	1.4	2.4	4.2	7.5	10.0		
Rating	Rating Rated Frequency (Hz)		0~400Hz							
	Output Volta	ge (V)	3Ø 200~240V							
	Operational \	/oltage (V)			1Ø 200~240VAC (-15%~+10%)					
Input Rating	Input Freque	ncy (Hz)			50~60H	z (±5%)				
Nating	Rated Curren	t (A)	1.0	1.8	3.7	7.1	13.6	18.7		
	Cooling System Na			cooling		Forced ai	r cooling			
	Weight (kg) 0		0.0	66	3	.3	1.45			



Product Dimension

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	00 (0.04)	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)

G100

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

• Mixer (agitator)

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) Conveyor
- General crane General crane Conveyor

Product Type & Model

LSLV 0022	G100 -	2	E	0	F	Ν	
LS Low Voltage Drive Series	Ī			Ī	Ī	Ī	
Motor Capacity [⊥] 0004: 0.4kW~0075: 7.5	kW						
Series Name							
Input Voltage 2: 3Ø 200V-240V / 4: 3Ø 380V-480V							
Keypad — E: LED Keypad							
UL Type O: UL Open Type							
EMC Filter N: Non Built-in EMC filter / F: Built-in EMC filter (C3)							
Reactor N: Non-Reactor							

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 ProductEasily 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	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

on Mode	Keypad / Terminal Block / Communication Network operation options						
cy Setting	Analogue method: -10~10 (V), 0~10 (V), 4~20 (mA); dig	jital method: keypad input					
on Function	PID control; 3-wire operation; frequency limit; second motor; forward/backward rotation prohibited; power switching; speed search; power braking; up-down operation; DC braking; frequency jump; slip compensation; auto restart; auto tuning; energy buffering operation; flux braking; and Fire Mode						
Multifunction Terminal (5Points) P1~P5	NPN (Sink) / PNP (Source) options						
	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					
Multifunctional Relay Terminal	Fault output and inverter operation mode output (N.O., N.C.) AC 250V, 1A or below, DC 30V, 1A or below, DC 30V						
Analogue Output	12Vdc: Frequency, output current, output voltage, DC voltage options						
	cy Setting on Function Multifunction Terminal (5Points) P1~P5 Multifunctional Relay Terminal	cy SettingAnalogue method: -10~10 (V), 0~10 (V), 4~20 (mA); digon FunctionPID control; 3-wire operation; frequency limit; second switching; speed search; power braking; up-down operation auto restart; auto tuning; energy buffering operation;Multifunction Terminal (5Points) P1~P5NPN (Sink) / PNP (Source) optionsMultifunction Terminal (5Points) P1~P5Function: Forward operation; backward operation; requency increase; fr general operation during PID operation; switching to command fixed frequency; acceleration or deceleration Fault output and inverter operation mode output					

General Drive

3Ø 200V Class (0.4~7.5kW)

LSLV	G100-2		0004	0008	0015	0022	0040	0055	0075
	Heavy Load	(HP)	0.5	1.0	2.0	3.0	5.4	7.5	10
Applied	Heavy Loau	(kW)	0.4	0.75	1.5	2.2	4.0	5.5	7.5
Motor	lisht sol	(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	Output Frequency (Hz)		00Hz (IM Sens					
	Output Voltage (V)			3Ø 200					
	Operating Voltage	(V)	3	Ø 200~240VA	C (-15%~+10%	b)			
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)		1.04	1.06	1.36	1.4	1.89	3.08	3.21	

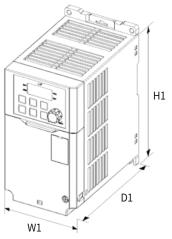
3Ø 400V Class (0.4~7.5kW)

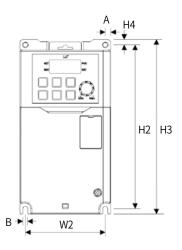
LSLV	G100-4	1000	0004	0008	0015	0022	0040	0055	0075		
	Howard	(HP)	0.5	1.0	2.0	3.0	5.4	7.5	10		
Applied	Heavy Load	(kW)	0.4	0.75	1.5	2.2	4.0	5.5	7.5		
Motor	lightland	(HP)	1.0	2.0	3.0	5.4	7.5	10	15		
	Light Load	(kW)	0.75	1.5	2.2	4.0	5.5	7.5	11		
	Rated Capacity	Heavy load	1.0	1.9	3.0	4.2	6.5	9.1	12.2		
	(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%~+10%)								
	Input Frequency (I	Hz)	50~60Hz (±5%)								
Input Rating	Rated Current (A)	Heavy Load	1.1	2.4	4.2	5.9	9.8	12.9	17.5		
	Raleu Cuffent (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.

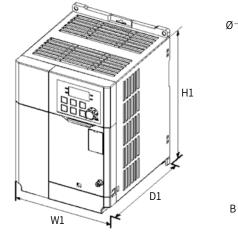
The rated output current is limited according to the carrier frequency (Cn.04) setting.
Upon no-load operation to protect the inverter when the motor is open/closed, the output voltage is 20~40% lower than the original voltage. (only for 0.4~4.0kW)

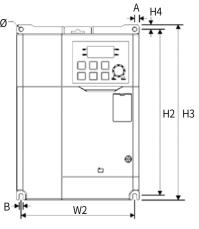
Product Dimension





								l	Jnit: mm (inches)	
Model	W1	W2	H1	H2	H3	D1	А	В	ø	
0004G100-2										
0008G100-2	85 (3.35)	75 (2.95)	153 (6.02)		163 (6.42)	131.5 (5.18)				
0004G100-4	85 (3.35)	15 (2.95)								
0008G100-4							5 (0.20)	4.5 (0.18)		
0015G100-2					177 (0.07)	150.5 (5.93)				
0022G100-2	100 (3.94)	90 (3.54)	167 ((6.57)						
0015G100-4	100 (3.94)	50 (3.34)	101 (0.51)	177 (6.97)					
0022G100-4										





									Unit: mm (inches)
Model	W1	W2	H1	H2	H3	D1	А	В	Ø
0040G100-2	135 (5.31)	125 (4.92)	102	183 (7.20)		150.5 (5.93)			4.5 (0.18)
0040G100-4	- 133 (3.31)	123 (4.92)	105 (1.20)		193 (7.60)	100.0 (0.90)			4.3 (0.16)
0055G100-2			220 (8.66)	229.5 (9.04)	240 (9.45)		5 (0.20)		
0075G100-2	180 (7.09)	162 (6.37)				144 (5.67)			5 (0.20)
0055G100-4	180 (7.09)	102 (0.37)		223.3 (9.04)					5 (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





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 water sprayed with a high-pressure sprayer.

Efficient Space Utilization

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

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)
- Compressor
- Centrifugal separator General crane
- Conveyor
- Mixer (agitator)

Product Type & Model

LSLV 00)55	S100	-	4	E	0	F	N	S
LS Low Voltag Drive Series	je	Ī		Ī	Ī	Ī	Ī		Ī
Motor Capacit 0004: 0.4kW~07		W							
Series Name-									
Input Voltage 1:1Ø200V/2:3		v / 4: 3Ø 400)V						
Keypad E: LED Keypad /	C: LCD) Keypad							
UL Type —— O: UL Open Typ	e / X-IP	266							
EMC Filter N: Non-EMC / F:	Built-	in EMC							
Reactor N: Non-Reactor	/ D: Bı	uilt- in DCL							
I/O M: 3.5mm / S-5r	nm								

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

* Please contact our salesperson for further details on PM sensor-less functions.

Operation

Operatio	n Mode	Keypad/ Terminal Block / Communication Network options							
Frequence	cy Setting	Analogue method: -10~10 (V), 0~10 (V), 4~20 (mA); digital method: keypad, pulse train input							
Operation 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							
Multifunctional Terminal Standard I/O (5Points) Input 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 autout and drive apprection mode autout	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)	Up to 32kHz, 10~12 (V)						

Standard Drive

1Ø 200V Class (0.4~2.2kW)

LS	LV 🗆 🗆 🗆 S100-1 🗆 🛛		0004	0008	0015	0022				
	Henryland	(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	Dated Current (A)	Heavy load	2.5	5.0	8.0	11.0				
Rating	Rated Current (A)	Light load	3.1	6.0	9.6	12.0				
	Output Frequency	(Hz)	0~400Hz (IM Sensor-less: 0~120 (Hz))							
	Output Voltage (V)		3Ø 200~240V							
	Operational Voltag	e (V)	1Ø 200~240VAC (-15%~+10%)							
Input	Input Frequency (H	lz)	50~60Hz (±5%)							
Rating	Dated Commont (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)

LS	LV 🗆 🗆 🗆 S100-2 🗆 🗆	1000	0004	0008	0015	0022	0037	0040	0055	0075	0110	0150
	Henryland	(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
	Light Load	(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
		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	e (V)	3Ø 200~240VAC (-15%~+10%) / 1Ø 200~240VAC (-5%~+10%)									
Input	Input Frequency (H	łz)	50~6	0Hz (±5%	ն) (Upon s	ingle-pha	se input, i	nput frequ	uency sho	uld only b	e 60Hz (±	:5%))
Rating	Pated Current (A)	Heavy Load	2.2	4.9	8.4	11.8	17.5	18.5	25.8	34.9	50.8	66.7
	Rated 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
	Built-in EMC		-	-	-	-	-	-	-	-	-	-

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.

• Upon no-load operation to protect the drive when the motor is op/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.

LSI	V0000 S100-4 00		0004	0008	0015	0022	0037	0040	0055	0075	0110	0150	0185	0220
	Heavy Load	(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 Loau	(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	LightLood	(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)	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	(3Ø Input) (A)	Light Load	2.0	3.1	5.1	6.9	10.0	10.0	16.0	23.0	30.0	38.0	38.0 44.0 18.0 23.0	58.0
Rating	Rated Current (A)	Heavy Load	0.8	1.5	2.3	3.1	4.8	5.4	7.1	9.5	15.0	18.0		27.0
	(1Ø Input) (A)	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	(Hz)				0	~400Hz (IM Sense	or-less: 0	~120 (Hz	z))			
	Output Voltage (V)							3Ø 380)~480V				15.0 18.5 25.0 30.0 18.5 22.0 22.9 29.7 29.0 33.5 30.0 39.0 38.0 44.0 18.0 23.0 23.0 27.0 90%) 33.4	
	Operational Voltag	ge (V)			3Ø 38	30~480V	AC (-15%	b~+10%)	/ 1Ø 200)~240VA	C (-5%~+	-10%)		
Input	Input Frequency (H	Hz)	50~	60Hz (±	:5%) (Up	oon sing	le-phase	e input, i	nput fre	quencys	should a	only be 6	0Hz (±5	;%))
Rating	Dated 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
	Rated 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	Veight 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 (0.4~22kW)

3Ø 400V Class (30~75kW)

LSI	LV		0300	0370	0450	0550	0750
	Henryland	(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)	Heavy Load	61.0	75.0	91.0	75.0 100.0 55.0 75.0 100.0 120.0 75.0 90.0 84.0 116.0 106.0 126.0 110.0 152.0 142.0 169.0 57.0 78.0 73.0 87.0	152.0
Output	(3Ø Input) (A)	Light Load	75.0	91.0	107.0	142.0	84.0 116.0 106.0 126.0 110.0 152.0 142.0 169.0 57.0 78.0 73.0 87.0 z))
Rating	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	z (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 (H	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	85.0 103.0 143.0 100.0 134.0 160.0 34.0 43 43	12
(kg)	Built-in EMC		26.0	35.0	35.0	45	40

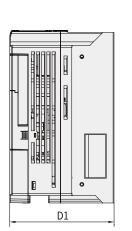
• The motor capacity is calculated with a 4-pole standard motor.

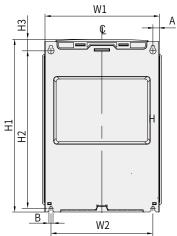
• The indicid capacity is calculated with a + pole standard indicit.
• 200V Class is based on 220V, and 400V Class on 440V.
• The rated output current is limited according to the carrier frequency (Cn.04) setting.
• Upon no-load operation to protect the drive when the motor is open/closed, the output 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

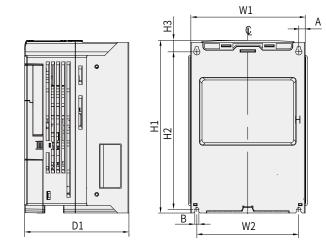




							1	ι	Init: mm (inches)	
Model	W1	W2	H1	H2	H3	D1	Α	В	Ø	
LSLV0004S100-2						122 (4 04)			4.2 (0.17)	
LSLV0004S100-4						123 (4.84)			4.2 (0.17)	
LSLV0004S100-1	68 (2.68)	61.1 (2.41)		119 (4.69)	5 (0.20)		3.5 (0.14)	4 (0.16)		
LSLV0008S100-2						128 (5.04)			4 (0.16)	
LSLV0008S100-4										
LSLV0008S100-1										
LSLV0015S100-2						130 (5.12)				
LSLV0015S100-4	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)		15(0.18)		
LSLV0015S100-1	100 (3.94)	91 (3.30)	120 (3.04)	120 (4.12)	4.3 (0.16)		4.5 (0.10)		
LSLV0022S100-2										
LSLV0022S100-4									4.5 (0.18)	
LSLV0022S100-1						145 (5.71)				
LSLV0037S100-2	140 (5.51)					145 (5.11)		4.4 (0.17)		
LSLV0037S100-4		132.2 (5.21)		120.7 (4.75)	3.7 (0.15)		3.9 (0.15)			
LSLV0040S100-2										
LSLV0040S100-4										
LSLV0004S100-1										
LSLV0004S100-4	68 (2.68)	63.5 (2.5)		170.5 (6.71)		130 (5.12)				
LSLV0008S100-4										
LSLV0008S100-1							4.5 (0.18)		
LSLV0015S100-1	100 (3.94)	91 (3.59)	180 (7.09)		5 (0.20)				4.2 (0.17)	
LSLV0015S100-4	100 (3.94)	51 (5.55)	100 (1.05)		5 (0.20)				4.2 (0.17)	
LSLV0022S100-4				170 (6.69)						
LSLV0022S100-1										
LSLV0037S100-4	140 (5.51)	132 (5.20)				140 (5.51)	4 (0	.18)		
LSLV0040S100-4							5 (0.20)			
LSLV0055S100-2										
LSLV0075S100-2	160 (6 30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)				_	
LSLV0055S100-4	- 160 (6.30)	137 (5.39) 232	202 (3.13)	3) 216.5 (8.52)	.52) 10.5 (0.41)	41)	5 (0.20)	-		
LSLV0075S100-4										

* Built-in EMC filter

Unit: mm (inches)



Model	W1	W2	H1	H2	H3	D1	А	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)	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		282 (11.10)	510 (20.1)	486.5 (19.15)		284 (11.2)	7 (0	.28)	
LSLV0450S100-4	325 (12.8)	202 (11.10)	510 (20.1)	400.5 (19.15)	16 (0.63)				
LSLV0550S100-4	323 (12.8)	275 (10.83)	550 (21.7)	524.5 (20.65)	10 (0.03)	309 (12.2)	2) 9 (0.35)		
LSLV0750S100-4		215 (10.83)	550 (21.7)	524.5 (20.65)		309 (12.2)			

* 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.



CE





GCOD DESIGN 산업분상자원부선정



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

LSLV	0008	H100	- 4	С	0	F	Ν
LS Low Vo Drive Seri	0	Ī	Ī	1	Ì	Ī	
Motor Cap 0008: 0.75k		00kW					
Series Na	ne ——						
Input Volt 2: 3Ø 200~2 4: 3Ø 380~4	40 (V)						
Keypad Ty C: LCD Keyp	•						
UL Type – O: UL Open E: UL Type1							
EMC Filter F: Built-in E N: Non EMC	MC						
Reactor – D: Built-in D N: Non DC F							

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

Operation

•								
Operatio	on Mode	Keypad, Terminal Block, Communic	ation Network options					
Fraguan	a Catting	Analogue method: -10 ~ 10V, 0 ~ 10V,	0~20mA					
Frequen	ncy Setting	Digital method: keypad, pulse train i	nput					
Operatio	on Function	power switch; speed search; power l	ncy limit; secondary function; forward/backward rotation prohibited; orake; leakage-reduced operation; up-down operation; DC braking; auto restart; auto tuning; energy buffering operation; flux braking;					
		PNP(Source), NPN(Sink) options According to the parameter setting c	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 Level: 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						

Fan & Pump Drive

3Ø 200V Class (0.75~18.5kW)

	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								
Rating	Output Frequency (Hz)					0~400Hz				
	Output Voltage (V)				3	3Ø 200~240\	/			
Input	Operational Voltage (V)				3Ø 200~2	240VAC (-159	%~+10%)			
Input	Input Frequency (Hz)				50	~60Hz (±59	%)			
Rating Input require (A) 4.9 8.4 12.9 17.5					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	4.6	7.1	

3Ø 400V Class (0.75~22kW)

	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 3	380~480VA	C (-15%~+1	.0%)			
Input	Input Frequency (Hz)		50~60Hz (±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)

	H100-4	0300	0370	0450	0550	0750	0900						
Applied	HP	40	50	60	75	100	125						
Motor	kW	30	37	45	55	75	90						
	Rated Capacity (kVA)	46.5	57.1	69.4	82.0	108.2	128.8						
Output	Rated Current (A)	61	75	91	107	142	169						
Rating	Output Frequency (Hz)		0~400Hz										
	Output Voltage (V)	3Ø 380~480V											
Innut	Operational Voltage (V)	3Ø 380~480VAC (-15%~+10%)											
Input Pating	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								
Weight (kg)/Non EMC		-	25	34	34	43							

3Ø 400V Class (110~500kW)

	000 H100-4 0000	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)0Hz				
_	Output Voltage (V)					3Ø 380	~500V				
Input	Operational Voltage (V)				3Ø 3	80~500VA	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.

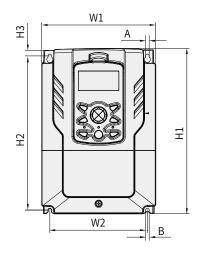
• 400V 75~90kW capacity products satisfy the EMC standard with a separate filter.

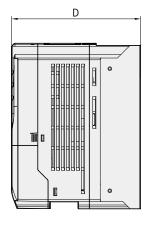
• The overload tolerance of 200V 5.5~18.5kkW and 400V 5.5~90kW products is 120%.

 $\bullet\,400V\,110{\sim}500kW$ 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	H3	D	Α	В				
	LSLV0008H100-2												
	LSLV0015H100-2												
	LSLV0022H100-2												
3Ø 200V	LSLV0037H100-2												
	LSLV0055H100-2				216.5 (8.52)	10.5 (0.41)							
	LSLV0075H100-2												
	LSLV0110H100-2	160 (6.30)	137 (5.39)	232 (9.13)			181 (7.13)						
	LSLV0008H100-4	200 (0.00)		202 (0120)									
	LSLV0015H100-4							5 (0.20)	5 (0.20)				
	LSLV0022H100-4												
3Ø 400V	LSLV0037H100-4												
-	LSLV0055H100-4												
	LSLV0075H100-4												
	LSLV0110H100-4						4E) 20E 2 (9.09)						
3Ø 200V	LSLV0150H100-2	100 (7.00)	157 (0.10)	200 (44 42)	272 7 (10 70)	11.0 (0.45)							
3Ø 400V	LSLV0150H100-4	180 (7.09)	157 (6.18)	290 (44.42)	273.7 (10.78)	11.3 (0.45)	205.3 (8.08)						
	LSLV0185H100-4												
3Ø 200V	LSLV0185H100-2	220 (0.00)	102.0 (7.02)	250 (12 70)	221 (12.02)	12 (0 51)	222.2 (0.70)	C (0 2 4)	C (0.24)				
3Ø 400V	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 LSLV0370H100-4	275 (10.83)	232 (9.13)	450 (17.72)	428.5 (16.87)	14 (0.55)							
30 400 V	LSLV0370H100-4	213 (10.83)	232 (9.13)	430 (11.12)	420.3 (10.07)	14 (0.55)	284 (11.18)	7 (0.28)	7 (0.28)				
3Ø 400V	LSLV0450H100-4		282 (11.10)	510 (20.08)	486.5 (19.15)		204 (11.10)	1 (0.20)	1 (0.20)				
	LSLV0350H100-4	325 (12.08)				16 (0.63)							
3Ø 400V	LSLV0730H100-4	-	275 (10.83)	550 (21.65)	524.5 (20.65)		309 (12.80)						
	LSLV1100H100-4												
	LSLV1320H100-4	300 (11.81)	200 (7.87)	706 (27.80)			386 (15.20)	9 (0.35)	9 (0.35)				
3Ø 400V	LSLV1600H100-4				685.5 (26.99)	9.5 (0.37)							
	LSLV1850H100-4	380 (14.96)	300 (11.81)	31) 705 (27.76)	76)		396 (15.59)	9)					

IP00 Type

	Model	W1	W2	H1	H2	H3	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 (10.11)	520 (12.00)	922.5 (50.51)	695.5 (55.20)	15.5 (0.01)	440 (17.32)	11 (0.43)	11 (0.43)
3Ø 400V	LSLV3150H100-4								
30 400 1	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						500 (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)			

iS7

High Performance Drive



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

IP54

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









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
 - ng Elevator • Construction lift

Crane/Hoist

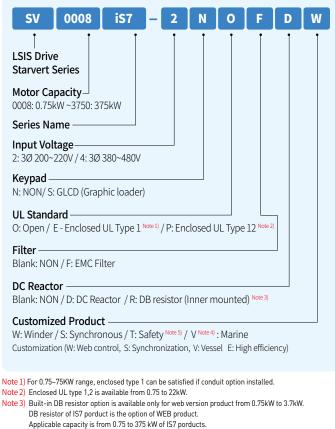
- t Press
 - Washer/Dehydrator

Auto warehouse

- Drawing machine
 Parking equipment
 Compressor
- Tire line

• Laminating machine

Product Type & Model



- 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.

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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 ~ 10 (V), -10 ~ 10 (V), 0 ~ 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, accelera braking at pause, second motor option, frequence	eration; switching to body operation during option						
	Multifunctional Open Collector Terminal	For the second state of the second second second second	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.

200V Class (0.75~22kW)

S	Vooooi\$7-20		0008	0015	0022	0037	0055	0075	0110	0150	0185	0220		
	Heaver Load (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 (VT)	(kW)	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30		
Rated Capacity (k)		Note 2)	1.9	3.0	4.5	6.1	9.1	12.2	17.5	22.9	28.2	33.5		
Quatawat	Rated Current (A) Note 3)	СТ	5	8	12	16	24	32	46	60	74	88		
Output Rating		VT	8	12	16	24	32	46	60	74	88	124		
Nating	Output Frequency (Hz)	0~400 (Hz) (Sensorless-1: 0~300Hz, Sensorless-2, Vector: 0~120Hz) Note 4)											
	Output Voltage (V)		3Ø 200~230V Note 5)											
	Operational Voltage	(V)				3Ø 2	00~230VAC	C (-15% ~ +	10%)					
Rating	Input Frequency (Hz	<u>z)</u>					50~60 (H	z) (±5%)						
	Rated Current (A)	СТ	4.3	6.9	11.2	14.9	22.1	28.6	44.3	55.9	70.8	85.3		
		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	Vi\$7-2_		0300	0370	0450	0550	0750	-	-	-	-	-		
	Heavy Load (CT)	(HP)	40	50	60	75	100	-	-	-	-	-		
Applied	Heavy Load (CT)	(kW)	30	37	45	55	75	-	-	-	-	-		
Motor Note 1)	Light Load (V/T)	(HP)	50	60	75	100	125	-	-	-	-	-		
	Light Load (VT)		37	45	55	75	90	-	-	-	-	-		
	Rated Capacity (kVA	Note 2)	46	57	69	84	116	-	-	-	-	-		
.	Rated Current (A)	СТ	116	146	180	220	288	-	-	-	-	-		
Output Rating		VT	146	180	220	288	345	-	-	-	-	-		
Nating	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	e (V)				3Ø 2	00~230VAC	C (-15% ~ +	10%)					
Input	Input Frequency (Hz	<u>z)</u>					50~60 (H	z) (±5%)						
Rating	Rated Current (A)	СТ	121	154	191	233	305	-	-	-	-	-		
		VT	152	190	231	302	362	-	-	-	-	-		

400V Class (0.75~22kW)

S	Voooois7-4 o		0008	0015	0022	0037	0055	0075	0110	0150	0185	0220			
	Heavy Load (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 (VT)	(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			
.	Rated Current (A)	СТ	2.5	4	6	8	12	16	24	30	39	45			
Output Rating		VT	4	6	8	12	16	24	30	39	45	61			
Rating	Output Frequency (H	Hz)		0~400 (Hz) (Sensorless-1: 0~300Hz, Sensorless-2, Vector: 0~120Hz) Note 4)											
	Output Voltage (V)						3Ø 380~4	480V Note 5)							
	Operational Voltage	(V)				3Ø 3	80~480VA	C (-15%~+1	L0%)						
Input	Input Frequency (Hz	<u>:</u>)					50~60 (H	z) (±5%)							
Rating		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			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)

9	SV0000iS7-40		0300	0370	0450	0550	0750	0900	1100	1320	1600	1850	2200	2800	3150	3750
		(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
	LIGHT LOAD (VI)	(kW)	37	45	55	75	90	110	132	160	185	220	280	315	375	450
	Rated Capacity (kV/	A) Note2)	46	57	69	84	116	139	170	201	248	286	329	416	467	557
0	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) (Sensorless-1: 0~300Hz, Sensorless-2, Vector: 0~120Hz) Note 4)													
	Output Voltage (V)							3	Ø 380~4	180V ^{Note}	: 5)					
	Operating Voltage (V)							3Ø 380-	~480VA	C (-15%	,+10%)					
Input	Input Frequency (H	z)						50	0~60 (H	z) (±5%	6)					
Rating		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)		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)

	SV0000iS7-40		0037	0055	0075	0110	0150	0185	0220	0300	-	-			
Applied M	lotor Note 1)	(HP)	5	7.5	10	15	20	25	30	40	-	-			
Applied M		(kW)	3.7	5.5	7.5	11	15	18.5	22	30	-	-			
	Rated Capacity (k)	VA) Note 2)	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 380~480V Note 5)												
	Operational Voltag	ge (V)				3Ø 3	80~480VA	C (-15%, +	10%)						
Input	Input Frequency (Hz)					50~60 (H	z) (±5%)							
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)

	SV0000iS7-40		0037	0450	0550	0750	0900	1100	1320	1600	1850	2200	
Applied M	latar Note 1)	(HP)	50	60	75	100	125	150	200	250	300	350	
Applied M		(kW)	37	45	55	75	90	110	132	160	185	220	
	Rated Capacity (k	VA) Note 2)	46	57	69	84	116	139	170	201	248	286	
	Rated Current (A)	VT	75	91	110	152	183	223	264	325	370	432	
Output 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)	0~400 (Hz) (Sensorless-1: 0~300Hz, Sensorless-2, Vector: 0~120Hz) Note4										
	Output Voltage (V))	3Ø 380~480V Note 5)										
	Operational Voltag	ge (V)				3Ø 3	80~480VA	C (-15%, +	10%)				
Input	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	

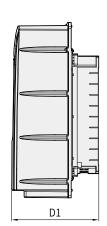
Note 3) The output rated current is limited according to E carrier frequency (CON-04) setting.

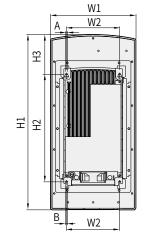
Note 4) When the control mode (DRV-09 Control Mode) is No.3 Sensorless-1 and No.4 Sensorless-2, the peak frequency of Sensorless-1 can be set up to 300Hz and that of Sensorless-2 up to 120Hz. Note 5) The peak output voltage does not exceed the source voltage. The output voltage can be set within the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

High Performance Drive

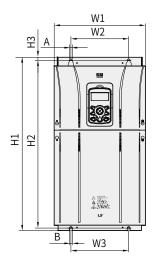
Product Dimension





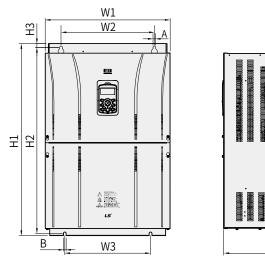


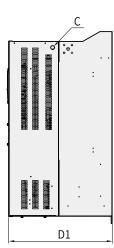
Unit: mm (inches) Model W1 W2 H1 H2 H3 D1 В А SV0008~0037iS7-2/4 150 (5.90) 127 (5.00) 284 (11.18) 257 (10.11) 18 (0.70) 200 (7.87) SV0037iS7/0055iS7-4 (E) 5 (0.19) SV0055~0075iS7-2/4 200 (7.87) 176 (6.92) 355 (13.97) 327 (12.87) 19 (0.74) 225 (8.85) SV0075iS7/0110iS7-4 (E) SV0110~0150iS7-2/4 250 (9.84) 214.6 (8.44) 385 (15.15) 355 (13.97) 23.6 (0.92) 284 (11.18) SV0150iS7/0185iS7-4 (E) 6.5 (0.25) 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) SV0220iS7/0300iS7-4 (E)





								U	nit: mm (inches)
Model	W1	W2/W3	H1	H2	H3	D1	А	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 30)	M8
SV0370~0450iS7-2	370 (14.56)	270 (10.63)	630 (24.8)	609 (23.97)	11 (0.43)	281.2 (11.07)	- 10 (0.39)		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 (0.43)	M16





Uniť: m													
Model	W1	W2	W3	H1	H2	H3	D1	А	В	С			
SV0900/1100iS7-4				783.5									
SV1100/1320iS7-4(E)	510	381	350 (13.77)	(30.84)	759	15.5	422.6	1	.1	M16			
SV1320/1600iS7-4	(20.07)	(15.0)		861	(29.88)	(0.61)	(16.63)	(0.	43)	01IVI			
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)	580 (22.83)		1302.5 (51.28)	1271.5 (43.70)	(0.59)	495 (19.49)	-	.4 55)	MID			

īV5

Vector Drive



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







Eertification up to 220kW



ISO9001 ISO14001



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.



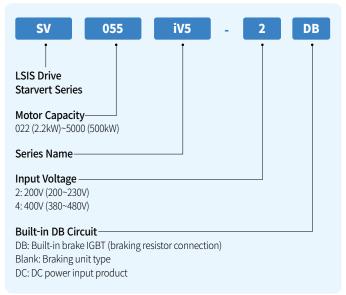
User-centered Interface

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 F	Resolution	Analogue setting: $\pm 0.1\%$ of the maximum speed / Digital setting: 0.1rpm							
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							
Deterention	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		
Output Dating	Rated Current (A)	12	16	24	32	46	59	74	88	122	146		
Output Rating	Output Speed	0~3600 (rpm)											
	Output Voltage	200~230V Note 3)											
Input 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							42				

400V Class (AC Power Input Type)

SV□	□□ iV5-4	022	03	37	055	075	110)	150	185	220) 3	00	370
Applied Motor	(HP)	3	Ę		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	3	22.9	29.7	34.3	; .	46	57
Outrout Dating	Rated Current (A)	6	8	3	12	16	24		30	39	45		61	75
Output Rating	Output Speed	0~3600 (rpm)												
	Output Voltage		380~480V Note 3)											
Input Rating	Voltage					3Ø3	380~480	V (-10%	b~+10%)	Note 4)				
input Rating	Frequency						50~6	60Hz (Ⅎ	±5%)					
Drive Weight (kg)		6 6		6	7.7	7.7	13.7		13.7	20.3	20.3	; .	42	42
SV□	□□ iV5-4	450	550	750	900	1100	1320	1600	2200	2800	3150	3750	5000	8000
SV□ Applied Motor	□□ iV5-4 (HP)	450 60	550 75	750 100	900 120	1100 150	1320 175	1600 215	2200 300	2800 373	3150 420	3750 500	5000 666	8000 1067
Applied Motor	(HP)	60	75	100	120	150	175	215	300	373	420	500	666	1067
Applied Motor Note 1)	(HP) (kW)	60 45	75 55	100 75	120 90	150 110	175 132	215 160	300 220	373 280	420 315	500 375	666 500	1067 800
Applied Motor	(HP) (kW) Capacity (kVA) Note2)	60 45 70	75 55 85	100 75 116	120 90 140	150 110 170	175 132 200 264	215 160 250	300 220 329 432	373 280 416	420 315 468	500 375 557	666 500 732	1067 800 1105
Applied Motor Note 1)	(HP) (kW) Capacity (kVA) Note2) Rated Current (A)	60 45 70	75 55 85	100 75 116	120 90 140	150 110 170	175 132 200 264 0~3	215 160 250 325	300 220 329 432 com)	373 280 416	420 315 468	500 375 557	666 500 732	1067 800 1105
Applied Motor Note 1) Output Rating	(HP) (kW) Capacity (kVA) Note2) Rated Current (A) Output Speed	60 45 70	75 55 85	100 75 116	120 90 140	150 110 170 223	175 132 200 264 0~3 380	215 160 250 325 3600 (rp	300 220 329 432 com)	373 280 416 546	420 315 468	500 375 557	666 500 732	1067 800 1105
Applied Motor Note 1)	(HP) (kW) Capacity (kVA) Note2) Rated Current (A) Output Speed Output Voltage	60 45 70	75 55 85	100 75 116	120 90 140	150 110 170 223	175 132 200 264 0~3 380 380~480	215 160 250 325 3600 (rp	300 220 329 432 com) Note 3)	373 280 416 546	420 315 468	500 375 557	666 500 732	1067 800 1105

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 (= $\sqrt{3}^{3}$ 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)

SVDD	ı □ 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		
	(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		
Output 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	OV Note 3)						
Input Rated Volta	ige	DC 540~680V (+10%) Note 4)											
Drive Weight (kg)		12 12 24 24.5 25 25 38.5 38.5 50 50							50				

SVDD	I□ iV5-4(DC)	750	900	1100	1320	1600	2200	2800	3150	3750	5000		
Applied Motor	(HP)	100	120	150	175	215	300	373	420	500	666		
Note 1)	(kW)	75	90	110	132	160	220	280	315	375	500		
	Capacity (kVA) Note 2)	116	140	170	200	250	329	416	468	557	732		
Output Dating	Rated Current (A)	152	183	223	264	325	432	546	614	731	960		
Output Rating	Output Speed	0~3600 (rpm)											
	Output Voltage		380~480V Note 3)										
Input Rated Voltage DC 540~680V (+10%) Note 4)													
Drive Weight (kg)		55 79 79 98.5 98.5 154.5 206 343 343 4							466				

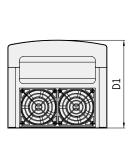
MRL

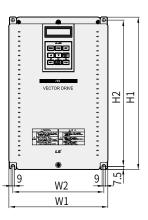
SVDD	□ iV5-4(MRL)	075	110	150	220							
Applied Motor	(HP)	10	15	20	30							
Note 1)	(kW)	7.5	11	15	22							
	Capacity (kVA) Note2)	13.7	20.6	27.5	39.6							
Output Rating	Rated Current (A)	18	27	36	52							
Output Rating	Output Speed	0~200 (rpm)										
	Output Voltage	380~480V Note 3)										
June ut 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.

Vector Drive

Product Dimension





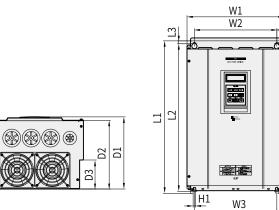
W4 H2

H3

W5

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 (1.87)	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)

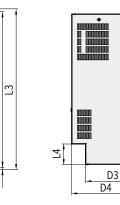


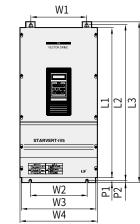
	la l																									
													Unit	mm (inches)												
Model	W1	W2	W3	W4	W5	L1	L2	L3	D1	D2	D3	H1	H2	H3												
SV055iV5-2/4DB	234.4	18	180		27.2		391.2	7.5	221.1	209.5	75	6	Ф6	Φ12												
SV075iV5-2/4DB	(9.22)	(7.0	08)	(1.	07)	(15.99)	(15.40)	(0.29)	(8.70)	(8.24)	(2.95)	(0.23)	(Ф0.23)	(Ф0.47)												
SV110 iV5-2/4DB																										
SV150iV5-2/4DB	335	28	34	25.5			25.5	25.5	25.5				25.5	25.5	25.5	25.5	25.5	526	509	10	248.6	237	100	7	Φ7	Φ14
SV185iV5-2/4DB	(13.18)	(11.	.18)	(1.	00)	(20.70)	(20.03)	(0.39)	(9.78)	(9.33)	(3.93)	(0.27)	(Ф0.27)	(Φ0.55)												
SV220iV5-2/4DB																										

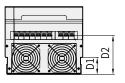
* The dimension of DC Input Type products is same as that of AC Input Type ones.

Energy Saving Drive

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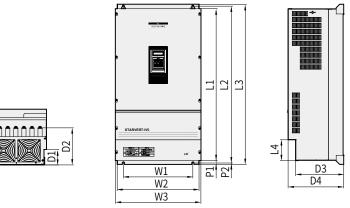






Unit: mm (inches)

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			359.6										
SV550iV5-4		275 (10.82)		375 (14.76)	730.6 (28.76)	758.5 (29.86)	780 (30.70)	82.3 (3.24)	189.3 (7.45)	259 (10.19)	326 (12.83)	24.5 (0.96)	10.5 (0.41)
SV750iV5-4		,	(14.15)	(=	()		(((()	(==/00)	(1.50)	()



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Unit: mm (inches)

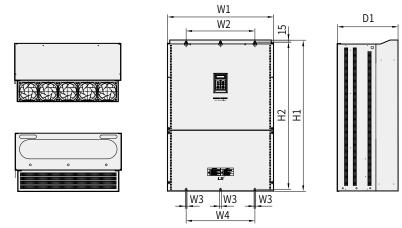
Model	W1	W2	W3	L1	L2	L3	D1	D2	D3	D4	P1	P2
SV900iV5-4		507 530		729	760	780	83.2	234.6	286.2	335		
SV1100iV5-4	430		(28.70)	(29.92)	(30.70)	(3.27)	(9.23)	(11.26)	(13.18)	23.5	8.5	
SV1320iV5-4	(16.92)	(19.96)	(19.96) (20.86)	949	980	1000	95.2	231.6	298	345	(0.92)	(0.33)
SV1600iV5-4				(37.36)	(38.58)	(39.37)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

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

Vector Drive

Product Dimensi	ion					STARVENT-VS	W1 W2 W3	لــــــــــــــــــــــــــــــــــــ	P2		D3 D4		
									I	I		Unit: n	nm (inches)
Model	W1	W2	W3	L1	L2	L3	L4	D1	D2	D3	D4	P1	P2
SV2200iV5-4	540 (21.25)	649 (25.55)	680 (26.77)	922 (36.29)	968.5 (38.12)	998 (39.29)	150 (5.90)	100.2 (3.94)	271 (10.66)	343 (13.50)	403 (15.86)	38 (1.49)	12 (0.47)

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



14 (0.55)

580 (22.83)

						Unit: mm (inches)
W1	W2	W3	W4	H1	H2	D1
(30.39)	500 (19.68)	13 (0.51)	500 (19.68)	1140.5 (44.90)	1110 (43.70)	442 (17.40)

1302.5 (51.27)

1271.5 (50.05)

495 (19.48)

580 (22.83)

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

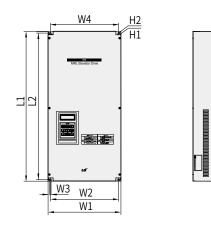
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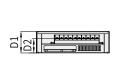
922 (36.29)

Model SV2800iV5-4

SV3150iV5-4

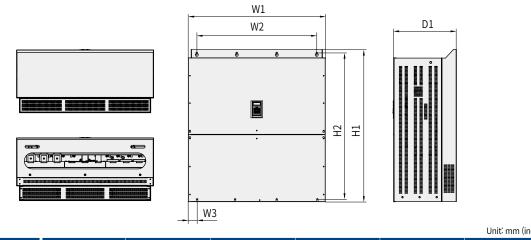
SV3750iV5-4





Unit: mm (inches)

										. mm (inches)
Model	W1	W2	W3	W4	L1	L2	D1	D2	H1	H2
MRL 075-4	330	310	7 (0.27) 310 (12.20) 255 (12.0	310	680		97.2 (3.82)	64.7 (2.54)	14 (0.55)	7
MRL 110-4	(12.99)	(12.20)		7 (12.20)	(26.77)					
MRL 150-4	375 (14.76)	255 (12 07)		255 (12 07)	7) 700 (27.55)	686 (27.00)	108.5 (4.27)	75.7		(0.27)
MRL 220-4	515 (14.10)	555 (15.57)		335 (13.97)			139.2 (5.48)	101.3		



						Unit: mm (inches)
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	Option Name
	M100 remote keypad		RS-485 communication card
M100	Remote cable (1m, 2m, 3m, 5m)		Modbus RTU communication card
	2 Port Ethernet/IP (Modbus TCP) communication card		DeviceNet communication card
	Profibus-DP communication card		Profibus-DP communication card
G100	CANopen communication card		CC-Link communication card
	G100 remote keypad *	iV5	Synchronization option
	Remote cable (1m, 2m, 3m, 5m)		EL / IO card
	Modbus TCP communication card		SIN / COS + Endat option
	PROFInet communication card		Scalable I / O card
	EtherCAT communication card		24V encode option card
	EtherNet/IP communication card	<u>,</u>	Parameter Copy Unit
6100	Profibus-DP communication card	Common	Smart Copier
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		
iS7	R-Net / F-Net communication card		
151	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)		

* G100/M100 remote keypads are compatible.

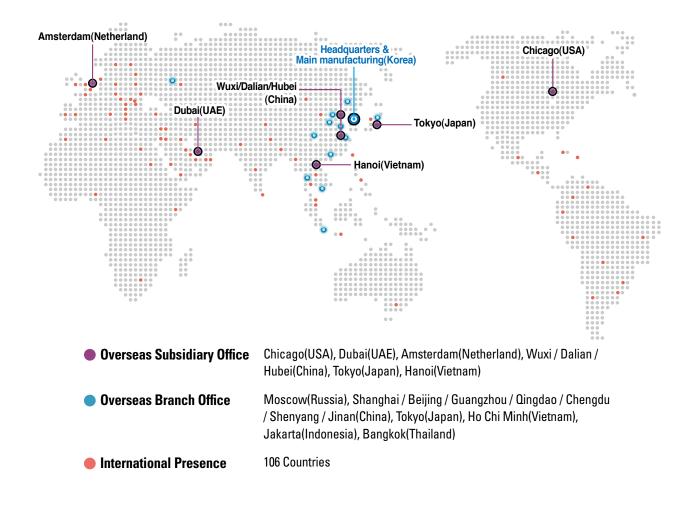


Analytics

LSIS is one of world's most 100 innovators by Clarivate Analytics. With its mission, Futuring Smart Energy,

LS pursues the world more smart, safe and sustainable.

Your World Class Total Solution Provider







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.



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



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