Top 100 Global Innovator for 10 years



Low-Voltage Drive

M100 / G100(C) / S100 / H100 / L100 / iS7 / iV5



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Leading Innovation, **Creating Tomorrow**

Realization of innovative energy saving with LS Drive Solution.

LS Drive is a control component that realizes energy efficiency as it controls the rotation speed of motors with changing power frequency.

LS ELECTRIC 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.

LS offers an optimal solution for high efficiency and energy saving solution in various industries with the iG5A, the best-selling(3 mil.) general purpose product; the iS7, the representing LS standard line-up; the S100/H100/G100/ M100, the innovative new 100 series. Additionally, it has a medium-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, LS 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.

LS 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

Fulfilling the ultimate convenience with the optimal automation environment

LS 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

LS 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 LS drives, you will meet with a new experience of increased productivity, improved product quality and reduced maintenance cost.



5 General Drive G100

6 Fan/Pump-only Drive H100

including China, Japan, Vietnam, U.S.A,

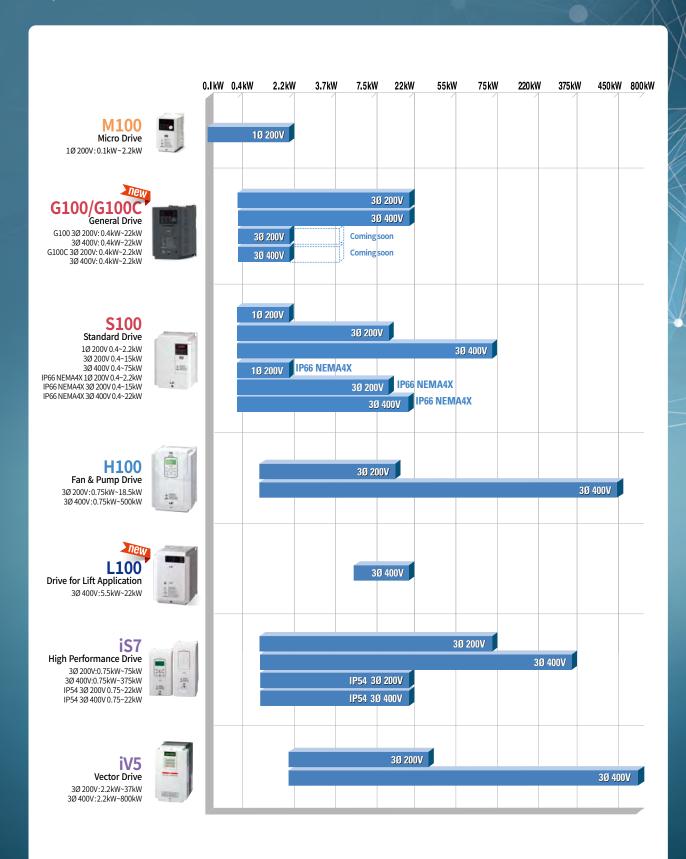
partners in 77 countries.

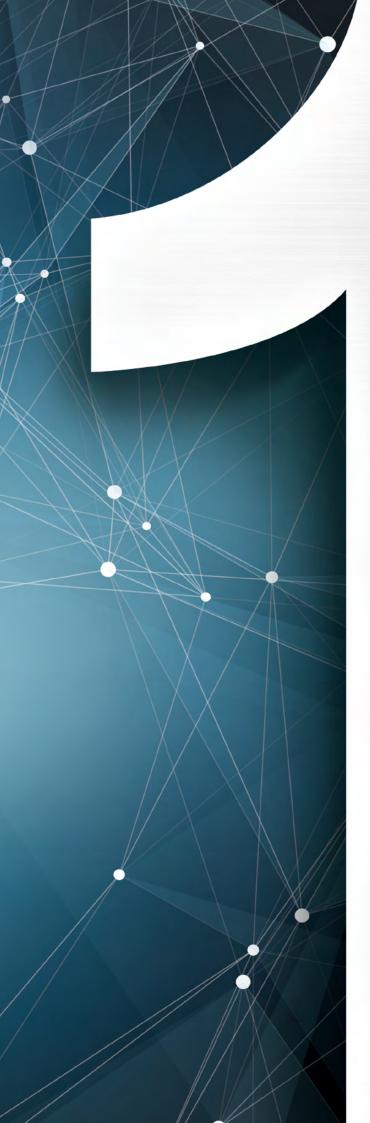
U.A.E and the Netherlands, and have 224

1 Vector Drive iV5

LS Drive at a Glance

LS Drive is characterized by its user-convenience interface, accurate and flexible control, and various functions. LS 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 LS Drive?

From 1983 to the present, LS ELECTRIC has won the honor of being ranked 1st in the domestic market share, as well as 1st place in Korean quality satisfaction for 4 consecutive years*, and 9 consecutive years** in the Derwent Top 100 global innovators. LS ELECTRIC has established itself as a leading company in Korea by standing shoulder-to-shoulder with global companies with the new technology, experience and expertise gained through continuous investment in R&D.

LS Drive - Main Features



Energy Saving



Product Options



Easy to Buy



Convenient Installation & Test Run



Fast & Convenient A/S

- * From 2013 to 2016, LS ELECTRIC was selected as the No. 1 company in the Korean quality satisfaction survey hosted by the ministry of trade, industry and energy and the Korea standards association.
- ** From 2012 to 2020, LS ELECTRIC was selected as the Derwent Top 100 global innovators by the world's leading academic information service company, 'Clarivate analytics'.







LS Drive Comparison Table

	Sovi	es Name	M.	100	G10	0(C)	S100		
	Sen	es name	Standard I/O	Advanced I/O	G100	G100C	Standard I/O	Multiple I/O	
/oltage	& Capacity		1Ø 100~120V 0.2~0.75kW 1Ø 200~240V 0.1~2.2kW		3Ø 200V 0.4~22kW [CT] 3Ø 400V 0.4~22kW [CT]			00~240V 0.4~2.2k 00~240V 0.4~15k\ 80~480V 0.4~75k\	
	V/F		()	()		0	
	Slip Comper			0	(0	
Mode Sensorless \				0	()		0	
	Sensored Ve	ctor	-			-		-	
*CT; Cor	d Capacity nstant Torque avy Duty	*VT; Variable Torque *ND; Normal Duty		current 5/1min	CT(HD): Rated cu VT(ND): Rated cu			: Rated current 15 : Rated current 12	
	Multifunctio	n	3 points(P1~P3)	5 points(P1~P5)	5 points	(P1~P5)	5 points(P1~P5)	7 points(P1~P7)	
nput	Analog(Volta	age)	1 point(0~10V)	1 point(0~10V)	1 point(-10~10V)	1 point(-10~10V)	1 point(-10~10V	
	Analog(Curr	ent)	-	1 point(4~20mA)	1 point(0~20mA)	1 point(4~20mA)	1 point(4~20mA	
	Pulse		-	-		-	-	1 point(0~32kHz	
Outout	Relay		1 point(A/B/C)	2 points(A/B/C, A/C)	2 points(A	/B/C, A/C)	1 point(A/B/C)	1 point(A/B/C)	
Output Terminal	Open Collec	tor	1 point	-		-	1 point	1 point	
Terrimat	Analog		1 point(0~10V)	1 point(0~10V)	1 point	(0~10V)	1 point(0~10V or 0~20mA)	1 point(0~10V or 0~20mA)	
Dynamic Braking Unit		Built-in:	1.5~2.2kW	Bui	lt-in	Built-in: 0.4~22kW Option: 30~75kW			
EMC Filter		Built-	in (C2)	Built-in: 0.4~22	3Ø 400V kW (C3)	Built-In o	otion: 1Ø 200V 0.4~ otion: 3Ø 400V 0.4~ -in: 3Ø 400V 5.5~7		
DC Reactor			-	Option:	11~22kW	Bui	lt-in: 3Ø 400V 30~7		
	EtherNet IP/Modbus TCP(1Port)			-		-		0	
Ξ		EtherNet IP/Modbus TCP(2Port)	-		()		-	
Jer	Industry	PROFINET		-		-		0	
ద	Ethernet	Modbus TCP(1Port)		-		-	-		
le lc		CC-Link IE		-		-	-		
Бè		RAPIEnet		-		-	-		
e		RAPIEnet+		-)	-		
밀		DeviceNet		-		-		-	
: :		Profibus-DP		-)	○(E)	cluding IP66 7.5kW	
us (CANopen		-)		0	
ţį	FieldBus	CC-Link		-				-	
ica		Modbus RTU	○(Comm. ⁻	Гуре built-in)	○(Bu	ilt-in)		○(Built-in)	
Communications (*:Under Development)		Fnet, Rnet		-		-			
П	14 1	LS INV 485	○(Comm.	Гуре built-in)) ○(Bı	ilt-in)		○(Built-in)	
ō	Motion	EtherCAT		-		-		0	
	BAS	BACnet/IP		-		-		-	
	(Building	BACnet/MSTP		-		-		-	
	Automation)	Lonworks		-		-		-	
		MetaSys N2		-		-			
Other O	ptions		Remote cab Remote	le(1/2/3/5m), e keypad		e(1/2/3/5m), pad, Conduit	Extension I/O, Remote cabel Remote keypad, Flange, (
Certification		KC, CE, UL, cUL		KC, CE,	UL, cUL	KC, CE, UL, cUL, Saf			
Enclosure Type		IF	220		20 nduit option)	0.4~75kW: IP20, UL Type 0.4~22kW: IP66(Inc			











30~75kW I/O	H100	L100	iS7	iV5
/[CT] [CT] [CT]	3Ø 200~240V 0.75~18.5kW 3Ø 380~480V 0.75~90kW 3Ø 380~500V 110~500kW	3Ø 380~480V 5.5~22kW	3Ø 200~230V 0.75~75kW [CT] 3Ø 380~480V 0.75~375kW [CT]	3Ø 200~230V 2.2~37kW 3Ø 380~480V 2.2~800kW DC input type 380~480V 5.5~500kW
	0	0	0	-
	0	0	0	-
	-	-	0	0
	-	0	0	0
%/1min %/1min	VT(ND) - 0.75~90kW: 120%/1min - 110~500kW: 110%/1min	Rated current 150%/1min	CT(HD): Rated current 150%/1min VT(ND): Rated current 110%/1min	Rated current 150%/1min
7 points(P1~P7)	7 points(P1~P7)	7points(P1~P7), 4points(FX,RX,BX,RST)	8 points(P1~P8)	7 points(P1~P7), 4 points(FX,RX,BX,RST)
1 point(-10~10V)	1 point(-10~10V)	1points(-10~10V)	1 point(-10~10V)	3 points(-10V~10V, 0~20mA, NTC)
1 point(4~20mA)	1 point(0~20mA)	1points(0~20mA)	1 point(0~20mA)	
1 point(0~32kHz)	1 point(0~32kHz)	-	-	4 points(Encoder signal)
2 v(A/B/C, A/C)	5 points(A/B/C, A/C, A/C, A/C, A/C)	4points (A/C, A/C, A/C, A/C), Fault contact 2points (A/C, B/C)	2 points(A/B/C, A/C)	3 points(A/B/C, A/C, A/C)
1 point	1 point	-	1 point	3 points(Encoder signal, Multifunction)
2 points(0~10V or 0~20mA)	2 points(0~10V or 0~20mA)	2points(-10V~10V)	2 points(0~10V, 0~20mA)	2 points(-10V~10V)
	Built-in: 0.75~30kW Option: 37~500kW	Built-in: 5.5~22kW	Built-in: 0.75~22W Option: 30~375kW	Built-in: 2.2~22kW Option: 30~800kW
2.2kW (C2) 4.0kW (C3) kW (C3)	Built-in: 3Ø 400V 0.75~500kW (C3)	Built-in: 3Ø 380~480V 5.5~22kW (C2)	Built-in: 3Ø 200/400V 0.75~7.5kW (C2) 3Ø 200/400V 11~22kW (C3)	-
5kW	Built-in: 3Ø 400V 37~500kW	-	Built-in: 3Ø 200V 0.75~22kW 3Ø 400V 0.75~220kW	Option: 3Ø 200V 30/37kW 3Ø 400V 30~800kW
	-	-	0	-
	O*	-	0	-
	-	-	0	-
	-	-	-	-
	-	-	0	-
	-	-	0	-
	O*	-	0	-
	-	-	0	0
r less)	-	-	0	0
	-	-	0	-
	-	-	0	0
	○(Built-in)	-	O(Built-in)	0
	- -	-	0	
	○(Built-in)	(Built-in)	(Built-in)	(Built-in)
	-	-	-	-
	○* ○(D:::l4::-)	-	-	-
	○(Built-in)	-	-	-
	○(Built-in)	-	0	-
	(Built-in)	FIIO Ingramantal Francisco		
1/2/3/5m), Conduit	Extension I/O, Remote cabel(2/3m), Flange, Conduit, Disconnect switch	ELIO, Incremental Encoder, Sin/Cos Encoder, Sin/Cos_Endat Encoder, Remote Cable	PLC, Extension I/O, Safety(Built-In option), Synchronous, Position, Binary input, Encoder, 24V Encoder, Remote cable(2/3m)	ELIO, Sin/Cos encoder, Sin/Cos_Endat encoder, Synchronous, Extension I/O, Remote cable(2/3/5m)
ty	KC, CE, UL, cUL, [Marin] ABS, BV, CCS, DNV/GL, KR, LR, NK, RINA, RS	KC, CE	KC, CE, UL, cUL, Safety, C-Tick [Marin] ABS, BV, DNV, KR	KC, CE, UL, cUL
iduit option) se only)	0.75~185kW: IP20 220~500kW: IP00 0.75~500kW: UL Type 1 (Conduit option)	IP00	200V Class 0.75-22kW, 400V Class 0.75-75kW : IP21 (UL Type 1(Conduit option)) 200V Class 30-75kW, 400V Class 90-375kW : IP00 (200V Class 30-75kW, IP20(Conduit option)) 0.75-22kW : IP54(UL Type 12)	IP00

Guide to LS 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 LS drive products. For further information, please contact LS.

	A sufficient		Ту	pe		Tor	que		new	Dr	ive Ser	ies		
	Application	Friction Load	Gravity Load	Fluid Load	Inertia Load	СТ	VT	M100	G100/ G100C	S100	H100	L100	iS7	iV5
	Fan			•			•							
	Pump			•			•							
IVAC Refrigerator	Compressor			•		•								
	Fan			•			•							
	Pump			•			•							
	Compressor			•		•	-							
	Conveyor	•				•								
~	Press				•	•								
	Winder (Drawing Machine)				•	•								
25/	Winder (Stranding Machine)					•								
letals & Materials					•	-								
Management	Hoist (Hoist)		•			•								
6	Hoist (Trolley, Gantry)	•				•								
	Synchronized Position Control	•			•	•								
	(Grinder)													
	Synchronized Position Control	•			•	•								
	(Automatic Lathe)				-									
• ~	E/L (High Speed)		•			•								
	E/L (Low Speed)		•			•								
∠ /7	Synchronized Position Control	•				•								
Elevator &	(Door Open/Close)													
Escalator	Escalator	•				•								
	Multistory Parking Space		•			•								
	Fan			•			•							
	Pump			•			•							
	Compressor			•		•								
	Spinning Machine					•								
1972	(Threading & Spinning)													
	Winder (Weaving)				•	•								
	Winder (Knitting)				•	•								
Textiles	Washing & Drying (Washer & Dryer)			•	•	•								
	Printing													
	Extruder	•				•								
	Hoist (Hoist)		•			•								
	Hoist (Trolley, Gantry)	•				•								
	Fan / Blower			•			•							
	Pump			•			•							
	Compressor			•		•								
Nex	Conveyor	•		-		•								
(b)	Mixer			•		•								
	Extruder	•				•								
Plastic & Rubber	Screw & Vibration Feeder				•	•								
tastic & Rubbei	Injection Molding	•				•								
	Winder				•	•								
	Hoist (Hoist)		•		_	•								
		_				_								
	Hoist (Gantry, Trolley)	•			-	•	_							
	Fan			•			•							
/ 2	Pump			•		_	•							
رق ا	Compressor			•		•								
	Conveyor	•				•								
U	Hoist (Hoist)		•			•								
Energy	Hoist (Gantry, Trolley)	•				•								
	High-capacity Fan & Pump			•			•							
	(Power Generation Industry)		1	-	1		_	1	1	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 /G100(C) 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 /L100 /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 / G100(C) 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 / G100(C) 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 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.

Guide to LS Drive Options

			Ту	pe		Tor	que			Dri	ive Ser	ies		
	Application	Friction	Gravity	Fluid	Inertia	СТ		M100	new G100/ G100C		H100	new	iS7	iV5
		Load	Load	Load	Load	CI	VI	MIOO	G100C	2100	HIOO	LIUU	151	IVS
	Fan			•			•							
	Pump			•			•							
三	Compressor			•		•								
(17.)	Conveyor	•				•								
<u>حــد</u>	Winch (Hoist)		•			•								
Marin	Winch (Gantry, Trolley)	•				•								
	Hoist (Hoist)		•			•								
	Hoist (Gantry, Trolley)	•		_		•								
	Fan			•			•							
	Pump			•			•							
	Compressor			•		•								
	Conveyor	•				•								
(A) 70	Mixer	•		•		•								
20//	Extruder Packing Machine	_												
Food & Beverage	Packing Machine (Synchronization, Position Control)	•				•								
TTU G Develuge	Cutting Machine													
	(Synchronization, Position Control)	•				•								
	Labeling Machine					_								
	(Synchronization, Position Control)	•				•								
	Hoist (Hoist)		•			•								
	Hoist (Gantry, Trolley)	•				•								
	Fan			•			•							
	Agitator Pump			•			•							
_	Compressor			•		•								
\mathbf{A}	Winder (Fixed Contact Control)				•	•								
	Roller Drum				•	•								
Pulp & Paper	Drying Machine	•					•							
	Coating Machine	•				•								
	Slitter	•				•								
	Hoist (Hoist)		•			•								
	Hoist (Gantry, Trolley)	•		_		•								
	Fan			•			•							
	Pump			•		_	•							
_	Compressor			•		•								
1569	Conveyor	•				•								
	Crusher / Drill Machine	•				•								
Mining	Excavators Crane (Heist)		•											
IIII	Crane (Hoist)					•								
	(Gantry/Trolley, Rotating/Turning)	•				•								
	Hoist (Hoist)		•			•								
	Hoist (Gantry, Trolley)	•				•								
	Fan (Blower)			•			•							
∕€∨π	Oil & Rod Pump			•			•							
法章	Compressor			•		•								
*****	Conveyor	•				•								
il & Gas Chemical	Mixer			•		•								
	Extruder	•				•								
	Crane (Hoist)		•				L							
	Crane	_												
	(Gantry/Trolley, Rotating/Turning)	•				•								
⋈ 3	Hoist (Hoist)		•			•								
Crane & Hoist	Hoist (Gantry, Trolley)	•				•								
	Automatic Warehouse (Lift)		•			•								
	Automatic Garage (Gantry)	•				•								
	Fan			•										
/ (!((/	Pump			•			•							
******	Compressor			•		•	•							
ater & Wastewater	Mixer		1		1	•	1	1						

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 / L100 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 115V: 0.2~0.75kW
1Ø 200V Class 0.1~2.2kW







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

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



Compact

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



Convenient Use

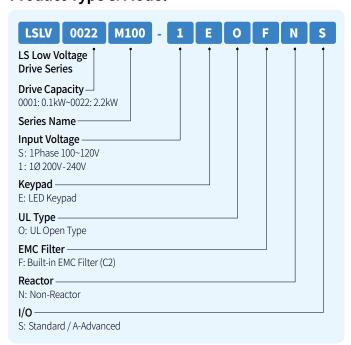
Din Rail installation is standard for M100 Drive, and RJ45 Port is provided for an easier connection with peripheral devices.



Intended Use

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

Product Type & Model



Main Functions

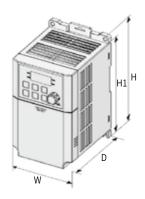
Features	Description	Benefits				
Micro Size	$85 \times 135 \times 100$ mm (W x H x D); Mini drive (based on 0.2kW)	Reduced area for product installation and increased convenience				
EMC Filter	Filter that satisfies the following standard: EN61800-3 Category C2 (1st Environment)	No space and expenses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

Control Operation

Control Mode	V/F, Slip compensation, Simple sensorless	Operation Mode	Keypad/Terminal/Communication			
Frequency Setting Resolution	Digital command: 0.01Hz Analog command: 0.06Hz/60Hz	Frequency Setting	Analog: V1 0~10[V], I2(Advanced I/O) 0~20[mA] Digital: Keypad			
Frequency Setting level	1% of Max. Output frequency		Forward/Reverse rotation prevention	Dwell operation		
V/F Pattern	Linear, Square-law torque reduction, user V/F	Operation	Frequency jumpFrequency limit	Slip compensation PID control		
Overload Capacity	Rated current: 150% 1min	Function	DC brakeJog operation	 Energy saving operation Speed search		
Torque Boost	Passive torque boost, Auto torque boost		up-down operation3-wire operation	Auto restart		

1Ø 100~200V Class

	Division		1 P	hase 100~1	20V			1 Phase 2	200~240V					
	DIVISION			0004	0008	0001	0002	0004	0008	0015	0022			
Applied	Haarar Durker	(HP)	0.25	0.5	1.0	0.125	0.25	0.5	1.0	2.0	3.0			
Motor	Heavy Duty	(kW)	0.2	0.4	0.75	0.1	0.2	0.4	0.75	1.5 2.2 3.0 4.5 7.5 11.0	2.2			
	Rated Capaci	ity (kVA)	0.6	0.95	1.9	0.3	0.6	0.95	1.9	3.0	4.5			
Rated	Rated Current (A)		1.4	2.4	4.2	0.8	1.4	2.4	4.2	7.5	11.0			
Output	Frequency (H	lz)		0~400Hz				0~40	00Hz					
	Voltage (V)			3Ø 100~120\	/			3Ø 200)~240V					
	Rated Curren	it (A)	3.7	7.4	13.9	1.0	1.8	3.7	7.1	13.6	18.7			
Rated Input	Frequency (H	lz)	50	0~60Hz (±59	%)			50~60Hz	z (±5%)					
трис	Voltage (V)		1Ø 100-12	20Vac (-15 %	to +10 %)		1 pha	se 200-240Va	ac (-15 % to +	10 %)				
Cooling T	Cooling Type		N	atural coolir	ng	Natural	cooling		Forced fa	n cooling				
Weight (k	g)			1	1.36	0.	66	1	L	1	45			



Product Dimension

1 Phase 100~120V	W	H1	Н	D				
0002M100-S	85	163	153	123				
0004M100-S	(3.34)	(6.42)	(6.02)	(4.84)				
0008M100-S	100	190	180	140				
	(3.94)	(7.48)	(7.08)	(5.51)				

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

G100/G100C

General Drive



• G100 3Ø 200V 0.4kW~22kW 3Ø 400V 0.4kW~22kW

• G100C 3Ø 200V 0.4kW~4.0kW 3Ø 400V 0.4kW~4.0kW

* G100C-2/4 4kW will be released in 2023



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











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.



Various User Convenience Functions and Field Network Support

G100 enables compact installation with DIN rail and side-by-side installation. It supports RJ port connection on the front of the product and greatly enhances the convenience of connecting with peripheral devices. EtherNet/IP, Modbus-TCP, Profibus-DP, Support CANopen option, Built-in RS485



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.

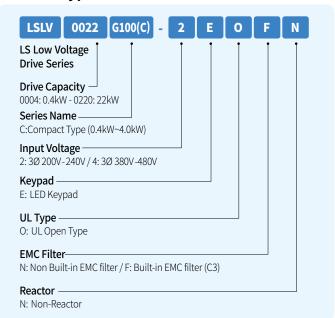


Intended Use

Used in all industries including metal processing, molding machines, hydraulic / air conditioning equipment, food and beverage / textile machinery, lifts /conveyors and environment / water treatment

- Cutting / Bending / Polishing machines
- Fans / Pumps
- Injection machines / Conveyors
- Dust collectors / Freezers
- Compressors / Blower
- Hoist / Lift

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, 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 Capacity	Heavy duty: 150% 1min, Normal duty: 120% min
Torque Boost	Passive torque boost; auto torque boost

Operation

Operation Mode Keypad / Terminal Block / Communication Network operation options					
Operatio	эп моае	keypad / Terminal Block / Communication Network C	pperation options		
Frequen	cy Setting	Analogue method: -10~10 (V), 0~10 (V), 4~20 (mA); dig	rital 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		
Analogue Output 0~10V Frequency, output current, output voltage, DC voltage options			voltage options		

G100/G100C

General Drive

3-Phase 200V Class (0.4~22kW)

L	LSLV G100(C)-	2	0004	0008	0015	0022	0040	0055	0075	0110	0150	0185	0220
	Heavy Duty [HD]	[kW]	0.4	0.75	1.5	2.2	4.0	5.5	7.5	11	15	18.5	22
Motor	neavy buty [nb]	[HP]	0.5	1.0	2.0	3.0	5.4	7.5	10	15	20	25	30
Rating	Normal Duty [ND]	[kW]	0.75	1.5	2.2	4.0	5.5	7.5	11	15	18.5	22	-
	Normal Duty [ND]	[HP]	1.0	2.0	3.0	5.4	7.5	10	15	20	25	30	-
	Heavy Duty (HD)		1.0	1.9	3.0	4.2	6.5	9.1	12.2	17.9	22.9	28.6	33.5
	Capacity [kVA]	Normal Duty (ND)	1.2	2.3	3.8	4.6	6.9	11.4	15.2	21.3	26.7	31.2	-
	Rated Current [A] Heavy Duty (HD)		2.5	5.0	8.0	11.0	17.0	24.0	32.0	47	60	75	88
Output	Rated Current [A]	Normal Duty (ND)	3.1	6.0	9.6	12.0	18.0	30.0	40.0	56	70	82	-
Rating	Rated Current [A]	Heavy Duty (HD)	1.5	2.8	4.6	6.1	9.3	12.8	17.4	26.8	34	41	48
	(1-Phase Power Input)	Normal Duty (ND)	2.0	3.6	5.9	6.7	9.8	16.3	22.0	31	38	45	-
	Frequency [Hz]		0~400H	z(IM Sens	sorless: 0	~120Hz)	0~400Hz (IM sensorless: 0~120Hz				.0Hz)		
	Voltage [V]		3	3-Phase 2	200~240	V	3-Phase 200~240V						
	Voltage [V]		3-Phase	200~240	VAC (-15%	%~+10%)		3-Ph	ase 200~	240VAC	(-15%~+	10%)	
Input	Input Frequency [Hz]			50~60H	z (±5%)				50~	60Hz (±	5%)		
Rating	Rating Rated Current [A] Heavy Duty [HD]		2.2	4.9	8.4	11.8	18.5	25.8	34.9	53.2	68.4	85.5	101.6
	Normal Duty [ND]		3.0	6.3	10.8	13.1	19.4	32.7	44.2	63.8	79.8	94.6	-
G100 We	G100 Weight [kg]			1.06	1.36	1.4	1.89	3.08	3.21	4.84	7.6	11.1	11.18
G100C W	eight [kg]		0.81	0.83	1.10	1.13	1.78	-	-	-	-	-	-

[•] Applicable capacity range with G100C (0.4kW~2.2kW)

3-Phase 400V Class (0.4~22kW)

L.	SLV	4	0004	0008	0015	0022	0040	0055	0075	0110	0150	0185	0220
	Heavy Duty [HD]	[kW]	0.4	0.75	1.5	2.2	4.0	5.5	7.5	11	15	18.5	22
Motor	neavy buty [nb]	[HP]	0.5	1.0	2.0	3.0	5.4	7.5	10	15	20	25	30
Rating	Normal Duty [ND]	[kW]	0.75	1.5	2.2	4.0	5.5	7.5	11	15	18.5	22	30
	Normal Duty [ND]	[HP]	1.0	2.0	3.0	5.4	7.5	10	15	20	25	30	40
	Capacity [kVA]	Heavy Duty (HD)	1.0	1.9	3.0	4.2	6.5	9.1	12.2	18.3	23.6	29.7	34.3
	Capacity [KVA]	Normal Duty (ND)	1.5	2.4	3.9	5.3	7.6	12.2	17.5	23.6	29.0	34.3	46.5
	Rated Current [A]	Heavy Duty (HD)	1.3	2.5	4.0	5.5	9.0	12.0	16.0	24	31	39	45
Output	Rated Current [A]	Normal Duty (ND)	2.0	3.1	5.1	6.9	10.0	16.0	23.0	31	38	45	61
Rating	Rated Current [A]	Heavy Duty (HD)	0.7	1.4	2.1	2.8	4.9	6.4	8.7	15	18	23	27
	(1-Phase Power Input)	Normal Duty (ND)	1.3	1.9	2.8	3.6	5.4	8.7	12.6	18	23	27	35
	Frequency [Hz]		0~400H	z(IM Sens	sorless: 0	~120Hz)	0~400Hz (IM sensorless: 0~120Hz)				0Hz)		
	Voltage [V]		3	3-Phase 3	380~480	V			3-Ph	ase 380~	480V		
	Voltage [V]		3-Phase	380~480	VAC (-15%	%~+10%)		3-Pha	ase 380~	480VAC	(-15%~+	10%)	
Input	Frequency [Hz]			50~60H	z (±5%)				50~	60Hz (±	5%)		
Rating	Rated Current [A]	Heavy Duty [HD]	1.1	2.4	4.2	5.9	9.8	12.9	17.5	27.2	35.3	44.5	51.9
	Normal Duty [ND]		2.0	3.3	5.5	7.5	10.8	17.5	25.4	35.3	43.3	51.9	70.8
G100 Wei	G100 Weight [kg]		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)	4.89 (5.04)	4.91 (5.06)	7.63 (7.96)	7.65 (7.98)
G100C We	eight [kg]		0.82	0.85	1.14	1.14	1.77	-	-	-	-	-	-

[•] Applicable capacity range with G100C (0.4kW~2.2kW)

[•] G100C doesn't support built-in EMC filter. (Not possible to add filter)

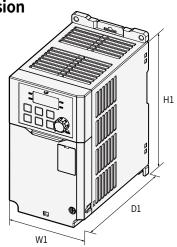
[•] G100C doesn't support built-in EMC filter. (Not possible to add filter)
• Maximum applicable capacity is indicated in case of using a 4-pole standard motor

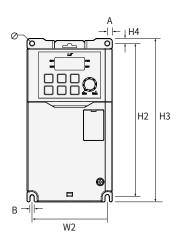
[•] For the rated capacity, 200 and 400V class input capacities are based on 220 and 440V, respectively.

[•] The rated output current is limited based on the carrier frequency set at Cn.04.

[•] The output voltage becomes 20-40 % lower during no-load operations to protect the inverter from the impact of the motor closing and opening (0.4-4.0 kW models only).

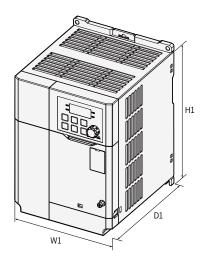
Product Dimension

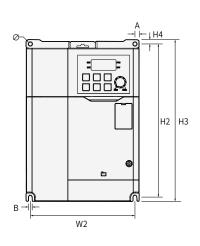




Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	H4	D1	А	В	Ø
0004G100-2										
0008G100-2	oe 2 (2 20)	76.2 (3.00)	154 (6.06)	154 (6.06)	164 (6.46)	5 (0.20)	131.5 (5.18)	5 (0.20)	4.5 (0.18)	4.5 (0.18)
0004G100-4	00.2 (3.39)	10.2 (3.00)	134 (0.00)	134 (0.00)	104 (0.40)	3 (0.20)	131.3 (3.10)	3 (0.20)	4.5 (0.16)	4.5 (0.16)
0008G100-4										
0015G100-2				167 (6 57)	177 (6.07)	F (0.20)	150 5 (5 02)	5.5 (0.22)	4.5 (0.10)	4.5 (0.10)
0022G100-2	101 (2.00)	90 (3.54)	167 (6.57)							
0015G100-4	101 (3.98)	90 (3.34)	107 (0.57)	167 (6.57)	177 (6.97)	5 (0.20)	130.3 (3.93)	3.3 (0.22)	4.5 (0.18)	4.5 (0.18)
0022G100-4										

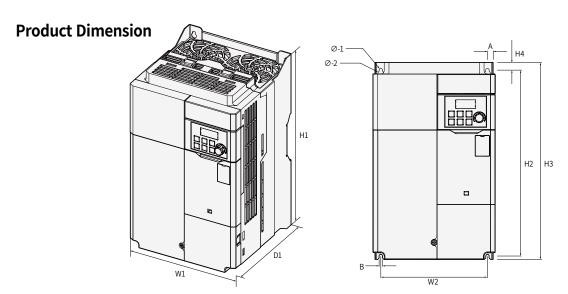




Unit: mm (inches)

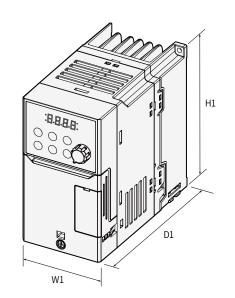
Model	W1	W2	H1	H2	H3	H4	D1	Α	В	Ø
0040G100-2	135 (5.31)	125 (4.92)	183 (7.20)	183 (7.20)	193 (7.60)	5 (0.20)	150.5 (5.93)	5 (0.20)	4.5 (0.18)	4.5 (0.18)
0040G100-4	155 (5.51)	123 (4.32)	165 (1.20)	165 (1.20)	193 (1.00)	3 (0.20)	130.3 (3.93)	3 (0.20)	4.5 (0.16)	4.5 (0.16)
0055G100-2		Top:						Top:		Ø-1:
0075G100-2	180 (7.09)	162 (6.38)		229.5 (9.04)	240 (0.45)	5.5 (0.22)	144 (5.67)	9 (0.35)	4.5 (0.18)	4.5 (0.18)
0055G100-4	180 (7.09)	Bottom:	n:	229.5 (9.04)	240 (3.43)	5.5 (0.22)	144 (3.01)	Bottom:	4.5 (0.16)	Ø-2:
0075G100-4		170 (6.70)						5 (0.20)		6 (0.24)

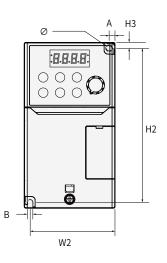
G100/G100C General Drive



Unit: mm (inches)

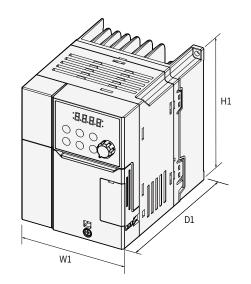
										Offic fillif (inches)
Model	W1	W2	H1	H2	Н3	H4	D1	A	В	Ø
0110G100-2 0110G100-4 0150G100-4	180 (7.09)	157 (6.18)	290 (11.4)	273.7 (10.8)	290 (11.4)	11.3 (0.44)	173 (6.81)	8.5 (0.33)	5 (0.20)	Ø-1:5(0.20) Ø-2:8.5(0.33)
0150G100-2 0185G100-4 0220G100-4	220 (8.66)	193.8 (7.63)	345 (13.6)	331 (13.0)	345 (13.6)	8 (0.31)	187 (7.36)	10.1 (0.40)	6 (0.24)	Ø-1:6(0.24) Ø-2:11(0.43)
0185G100-2 0220G100-4	260 (10.2)	229.8 (9.05)	400 (15.7)	386 (15.2)	400 (15.7)	8 (0.31)	187 (7.36)	11.4 (0.45)	7 (0.28)	Ø-1:7(0.28) Ø-2:13.5(0.53)

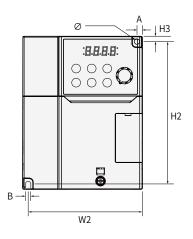




Unit: mm (inches)

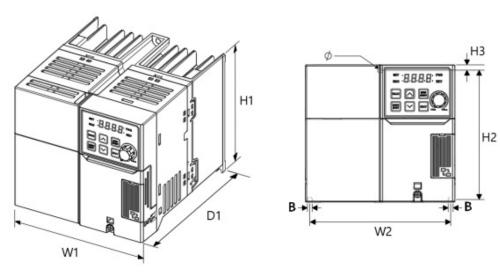
형명	W1	W2	H1	H2	Н3	D1	Α	В	Ø
0004G100C-2 0004G100C-4	70 (2.76)	65.5 (2.58)	128 (5.04)	119 (4.69)	4.5 (0.18)	130 (5.11)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
0008G100C-2 0008G100C-4	70 (2.76)	65.5 (2.58)	128 (5.04)	119 (4.69)	4.5 (0.18)	135 (5.31)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)





Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	D1	Α	В	Ø	
0015G100C-2	100 (3.93)	95.5 (3.76)	128 (5.04)	119 (4.69)	4.5 (0.18)	135 (5.31)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	
0015G100C-4	100 (3.93)	95.5 (5.10)	126 (3.04)	119 (4.09)	4.5 (0.16)	133 (3.31)	4.5 (0.16)	4.5 (0.16)	7.5 (0.10)	
0022G100C-2	100 (3.93)	95.5 (3.76)	128 (5.04)	119 (4.69)	4.5 (0.18)	135 (5.31)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	
0022G100C-4	100 (3.93)	33.3 (3.16)	120 (5.04)	113 (4.09)	4.5 (0.16)	133 (3.31)	4.5 (0.10)	4.5 (0.16)	4.5 (0.16)	



Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	D1	Α	В	Ø
0040G100C-2	140	132	128	120.5	5	155	_	4.5	4.5
0040 G100C-4	(5.51)	(5.20)	(5.04)	(4.74)	(0.20)	(6.10)	-	(0.18)	(0.18)

S100

Standard Drive



- 1Ø 200V Class 0.4~2.2kW
- 3Ø 200V Class 0.4~15kW
- 3Ø 400V Class 0.4~75kW

IP66

- 1Ø 200V Class 0.4~2.2kW
- 3Ø 200V Class 0.4~15kW
- 3Ø 400V Class 0.4~22kW









S100, a High-performance Standard Drive Boasting Power in a Compact Size

LS 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 (PDS/Non-PDS)

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



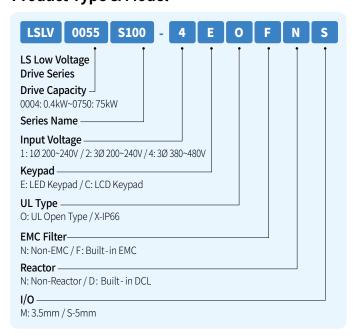
Intended Use

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

Product Type & Model



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 0.4~75kW (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, slip compensation, sensor-less vector, PM Sensorless
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 Capacity	Heavy duty: 150% 1min, Normal duty: 120% min
Torque Boost	Passive torque boost; auto torque boost

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

Operation

Operatio	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						
Operatio	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)	switching frequency – high, middle, low; acceler braking upon pause; second motor option; frequent switching to general operation during PID opera	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	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	Foult output and drive energian 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 1							
	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)							

S100

Standard Drive

1Ø 200V Class (0.4~2.2kW)

LSL\	/□□□□S100-1□[0004	8000	0015	0022
	Heavy Duty	(HP)	0.5	1.0	2.0	3.0
Applied	Heavy Duty	(kW)	0.4	0.75	1.5	2.2
Motor	Name al Durtu	(HP)	1.0	2.0	3.0	5.0
	Normal Duty	(kW)	0.75	1.5	2.2	3.7
	Rated Capacity	Heavy Duty	1.0	1.9	3.0	4.2
	(kVA)	Normal Duty	1.2	2.3	3.8	4.6
Outnut	Dated Current (A)	Heavy Duty	2.5	5.0	8.0	11.0
Output	Rated Current (A)	Normal Duty	3.1	6.0	9.6	12.0
	Rated Frequency (I	Hz)		0~400Hz (IM Senso	or-less: 0~120 (Hz))	
	Rated Voltage (V)			3Ø 200)~240V	
	Rated Voltage (V)			1Ø 200~240VA	C (-15%~+10%)	
lanut	Rated Frequency (I	Hz)		50~60H	z (±5%)	
Input	Dated Current (A)	Heavy Duty	4.4	9.3	15.6	21.7
	Rated Current (A)	Normal Duty	5.8	11.7	19.7	24.0
Weight	Non-EMC		0.9	1.3	1.5 3.0 2.2 3.0 3.8 8.0 9.6 1 (IM Sensor-less: 0~120 (Hz)) 3Ø 200~240V 00~240VAC (-15%~+10%) 50~60Hz (±5%) 15.6 19.7 2	2.0
(kg)	Built-in EMC		1.14	1.76	1.76	2.22

3Ø 200V Class (0.4~15kW)

LSL\	/□□□□S100-2□[0004	8000	0015	0022	0037	0040	0055	0075	0110	0150
	Heavy Duty	(HP)	0.5	1.0	2.0	3.0	5.0	5.4	7.5	10.0	15.0	20.0
Applied Motor N R (I Output R (I R R R R R R R	пеачу Бицу	(kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11.0	15.0
Motor	Normal Duty	(HP)	1.0	2.0	3.0	5.0	5.4	7.5	10.0	15.0	20.0	25.0
	Normal Duty Rated Capacity (kVA) Rated Current (A) (3Ø Input) (A) Rated Current (A) (1Ø Input) (A) Rated Frequency Rated Voltage (V) Rated Voltage (V) Rated Frequency Rated Current (A)	(kW)	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11.0	15.0	18.5
	Rated Capacity	Heavy Duty	1.0	1.9	3.0	4.2	6.1	6.5	9.1	12.2	17.5	22.9
	(kVA) Normal Duty 1.2 2.3 3.8 4.6 6.9 6.9 11.4 15.2 21.3 Rated Current (A) Heavy Duty 2.5 5.0 8.0 11.0 16.0 17.0 24.0 32.0 46.0								26.3			
	Rated Current (A)	Heavy Duty	2.5	5.0	8.0	11.0	16.0	17.0	24.0	32.0	46.0	60.0
Output	(3Ø Input) (A)	Normal Duty	3.1	6.0	9.6	12.0	18.0	18.0	30.0	40.0	56.0	69.0
	١ , ,	Heavy Duty	1.5	2.8	4.6	6.1	8.8	9.3	13.0	18.0	26.0	33.0
	(1Ø Input) (A)	Normal Duty	1.8	3.3	5.7	6.6	9.9	9.9	16.0	22.0	31.0	38.0
	Rated Frequency (I	Hz)	0~400Hz (IM Sensor-less: 0~120 (Hz))									
	Rated Voltage (V)						3Ø 200)~240V				
	Rated Voltage (V)				3Ø 200~24	40VAC (-15	i%~+10%)	/1Ø200~	240VAC (-	5%~+10%)	
Input	Rated Frequency (I	Hz)	50~6	0Hz (±5%	b) (Upon s	ingle-pha	se input, i	nput frequ	uency sho	uld only b	e 60Hz (±	5%))
прис	Pated Current (A)	Heavy Duty	2.2	4.9	8.4	11.8	17.5	18.5	25.8	34.9	50.8	66.7
	Nateu Current (A)	Normal Duty	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)

LSLV	′□□□□S100-4□[0004	0008	0015	0022	0037	0040	0055	0075	0110	0150	0185	0220
	Heavy Duty	(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 Duty	(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	Normal Duty	(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
	Normal Duty	(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 Duty	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)	Normal Duty	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 Duty	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)	Normal Duty	2.0	3.1	5.1	6.9	10.0	10.0	16.0	23.0	30.0	38.0	44.0	58.0
Output	Rated Current (A)	Heavy Duty	0.8	1.5	2.3	3.1	4.8	5.4	7.1	9.5	15.0	18.0	23.0	27.0
	(1Ø Input) (A)	Normal Duty	1.3	1.9	3.0	3.9	5.9	5.9	9.5	14.0	18.0	23.0	27.0	35.0
	Rated Frequency (Hz)	0~400Hz (IM Sensor-less: 0~120 (Hz))											
	Rated Voltage (V)		3Ø 380~480V											
	Rated Voltage (V)				3Ø 38	30~480V	AC (-15%	6~+10%)	/ 1Ø 200)~240VA	C (-5%~+	-10%)		
lanut	Rated Frequency (Hz)	50~	∕60Hz (±	:5%) (Up	on sing	le-phase	input, i	nput fre	quency	should o	nly be 6	0Hz (±5	5%))
Input	Rated Current(A)	Heavy Duty	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)	Normal Duty	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	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\	/□□□□S100-4□[0300	0370	0450	0550	0750
	Haarar Dutar	(HP)	40.0	50.0	60.0	75.0	100.0
Applied	Heavy Duty	(kW)	30.0	37.0	45.0	55.0	75.0
Motor	Narmal Duty	(HP)	50.0	60.0	60.0 75.0	120.0	
	Normal Duty	(kW)	40.0 30.0 50.0 37.0 ty 46.0 uty 55.0 ty 61.0 uty 75.0 ty 32.0 uty 39.0 3 50~60Hz (±5%)	45.0	55.0	75.0	90.0
	Rated Capacity	Heavy Duty	46.0	57.0	69.0	84.0	116.0
	(kVA)	Normal Duty	55.0	67.0	78.0	106.0	126.0
	Rated Current (A)	Heavy Duty	61.0	75.0	91.0	110.0	152.0
Outnut	(3Ø Input) (A)	Normal Duty	75.0	91.0	107.0	142.0	169.0
Output	Rated Current (A)	Heavy Duty	32.0	39.0	47.0	57.0	78.0
	(1Ø Input) (A)	Normal Duty	39.0	47.0	55.0	73.0	87.0
	Rated Frequency (I	Hz)		0~400Hz	z (IM Sensor-less: 0~	120 (Hz))	
	Rated Voltage (V)				3Ø 380~480V	75.0 55.0 100.0 75.0 84.0 106.0 110.0 142.0 57.0 73.0 ess: 0~120 (Hz)) 80V 80 200~240VAC (-5%~+10%) t frequency should only be 60H 103.0 134.0	
	Rated Voltage (V)			3Ø 380~480VAC (-15	5%~+10%) / 1Ø 200~	240VAC (-5%~+10%)
lanut	Rated Frequency (I	(HP) (kW) Heavy Duty Normal Duty Heavy Duty Normal Duty Heavy Duty Normal Duty Heavy Duty Normal Duty	50~60Hz (±5%	6) (Upon single-pha	se input, input frequ	uency should only b	e 60Hz (±5%))
Input	Rated Current (A)	Heavy Duty	56.0	69.0	85.0	103.0	143.0
	Rateu Current (A)	Normal Duty	69.0	85.0	100.0	134.0	160.0
Weight	Non-EMC		25.0	34.0	34.0	12	43
(kg)	Built-in EMC		26.0	35.0	35.0	43	45

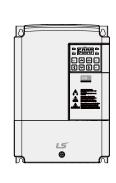
[•] The motor capacity is calculated with a 4-pole standard motor.
• 200V Class is based on 220V, and 400V Class on 440V.

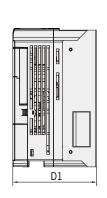
[•] The rated output current is limited according to the carrier frequency (Cn.04) setting.
• Upon no-load operation to protect the drive when the motor is open/closed, the output voltage is 20~40% lower than the original voltage. (only for 0.4~4.0kW)
• Dual rating is supported for products, excluding IP66/NEMA 4X.

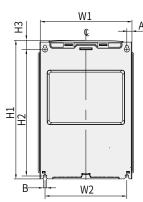
S100

Standard Drive

Product Dimension





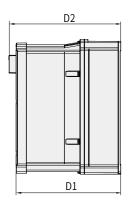


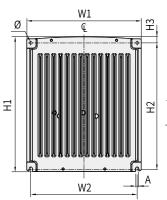


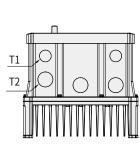
IP20 Type

IP20 Type									t: mm (inches
Model	W1	W2	H1	H2	Н3	D1	Α	В	Ø
LSLV0004S100-2	68 (2.68)	61.1 (2.41)	128 (5.04)	119 (4.69)	5 (0.20)	123 (4.84)	3.5 (0.14)	4 (0.16)	4.2 (0.17)
LSLV0004S100-4	68 (2.68)	61.1 (2.41)	128 (5.04)	119 (4.69)	5 (0.20)	123 (4.84)	3.5 (0.14)	4 (0.16)	4.2 (0.17)
LSLV0004S100-1	68 (2.68)	61.1 (2.41)	128 (5.04)	119 (4.69)	5 (0.20)	128 (5.04)	3.5 (0.14)	4 (0.16)	4 (0.16)
LSLV0008S100-2	68 (2.68)	61.1 (2.41)	128 (5.04)	119 (4.69)	5 (0.20)	128 (5.04)	3.5 (0.14)	4 (0.16)	4 (0.16)
LSLV0008S100-4	68 (2.68)	61.1 (2.41)	128 (5.04)	119 (4.69)	5 (0.20)	128 (5.04)	3.5 (0.14)	4 (0.16)	4 (0.16)
LSLV0008S100-1	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	130 (5.12)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
LSLV0015S100-2	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	130 (5.12)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
LSLV0015S100-4	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	130 (5.12)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
LSLV015S100-1	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	145 (5.71)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
LSLV022S100-2	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	145 (5.71)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
LSLV022S100-4	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	145 (5.71)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
LSLV0022S100-1	140 (5.51)	132.2 (5.21)	128 (5.04)	120.7 (4.75)	3.7 (0.15)	145 (5.71)	3.9 (0.15)	4.4 (0.17)	4.5 (0.18)
LSLV0037S100-2	140 (5.51)	132.2 (5.21)	128 (5.04)	120.7 (4.75)	3.7 (0.15)	145 (5.71)	3.9 (0.15)	4.4 (0.17)	4.5 (0.18)
LSLV0037S100-4	140 (5.51)	132.2 (5.21)	128 (5.04)	120.7 (4.75)	3.7 (0.15)	145 (5.71)	3.9 (0.15)	4.4 (0.17)	4.5 (0.18)
LSLV0040S100-2	140 (5.51)	132.2 (5.21)	128 (5.04)	120.7 (4.75)	3.7 (0.15)	145 (5.71)	3.9 (0.15)	4.4 (0.17)	4.5 (0.18)
LSLV0040S100-4	140 (5.51)	132.2 (5.21)	128 (5.04)	120.7 (4.75)	3.7 (0.15)	145 (5.71)	3.9 (0.15)	4.4 (0.17)	4.5 (0.18)
LSLV0004S100-1 ²	68 (2.68)	63.5 (2.5)	180 (7.09)	170.5 (6.71)	5 (0.20)	130 (5.12)	4.5 (0.18)	4.5 (0.18)	4.2 (0.17)
LSLV0004S100-4 ²	68 (2.68)	63.5 (2.5)	180 (7.09)	170.5 (6.71)	5 (0.20)	130 (5.12)	4.5 (0.18)	4.5 (0.18)	4.2 (0.17)
LSLV0008S100-4 ²	68 (2.68)	63.5 (2.5)	180 (7.09)	170.5 (6.71)	5 (0.20)	130 (5.12)	4.5 (0.18)	4.5 (0.18)	4.2 (0.17)
LSLV0008S100-1 11	100 (3.94)	91 (3.59)	180 (7.09)	170 (6.69)	5 (0.20)	140 (5.51)	4.5 (0.18)	4.5 (0.18)	4.2 (0.17)
LSLV0015S100-1 1)	100 (3.94)	91 (3.59)	180 (7.09)	170 (6.69)	5 (0.20)	140 (5.51)	4.5 (0.18)	4.5 (0.18)	4.2 (0.17)
LSLV0015S100-4 11	100 (3.94)	91 (3.59)	180 (7.09)	170 (6.69)	5 (0.20)	140 (5.51)	4.5 (0.18)	4.5 (0.18)	4.2 (0.17)
LSLV0022S100-4 ²	100 (3.94)	91 (3.59)	180 (7.09)	170 (6.69)	5 (0.20)	140 (5.51)	4.5 (0.18)	4.5 (0.18)	4.2 (0.17)
LSLV0022S100-1 11	140 (5.51)	132 (5.20)	180 (7.09)	170 (6.69)	5 (0.20)	140 (5.51)	4 (0.18)	4 (0.18)	4.2 (0.17)
LSLV0037S100-4 ²	140 (5.51)	132 (5.20)	180 (7.09)	170 (6.69)	5 (0.20)	140 (5.51)	4 (0.18)	4 (0.18)	4.2 (0.17)
LSLV0040S100-4 ²	140 (5.51)	132 (5.20)	180 (7.09)	170 (6.69)	5 (0.20)	140 (5.51)	4 (0.18)	4 (0.18)	4.2 (0.17)
LSLV0055S100-2	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	140 (5.51)	5 (0.20)	5 (0.20)	-
LSLV0075S100-2	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	140 (5.51)	5 (0.20)	5 (0.20)	-
LSLV0055S100-4 ²	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	140 (5.51)	5 (0.20)	5 (0.20)	-
LSLV0075S100-4 ²	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	140 (5.51)	5 (0.20)	5 (0.20)	-
LSLV0110S100-2	180 (7.09)	157 (6.18)	290 (11.4)	273.7 (10.8)	11.3 (0.44)	163 (6.42)	5 (0.20)	5 (0.20)	-
LSLV0110S100-4 ²	180 (7.09)	157 (6.18)	290 (11.4)	273.7 (10.8)	11.3 (0.44)	163 (6.42)	5 (0.20)	5 (0.20)	-
LSLV0150S100-4 ²	180 (7.09)	157 (6.18)	290 (11.4)	273.7 (10.8)	11.3 (0.44)	163 (6.42)	5 (0.20)	5 (0.20)	-
LSLV0150S100-2	220 (8.66)	193.8 (7.63)	350 (13.8)	331 (13.0)	13 (0.51)	187 (7.36)	6 (0.24)	6 (0.24)	-
LSLV0185S100-4 ²⁾	220 (8.66)	193.8 (7.63)	350 (13.8)	331 (13.0)	13 (0.51)	187 (7.36)	6 (0.24)	6 (0.24)	-
LSLV0220S100-4 ²⁾	220 (8.66)	193.8 (7.63)	350 (13.8)	331 (13.0)	13 (0.51)	187 (7.36)	6 (0.24)	6 (0.24)	-
LSLV0300S100-4 ²⁾	275 (10.8)	232 (9.13)	450 (17.7)	428.5 (16.87)	14 (0.55)	284 (11.2)	7 (0.28)	7 (0.28)	-
LSLV0370S100-4 ²⁾	325 (12.8)	282 (11.10)	510 (20.1)	486.5 (19.15)	16 (0.63)	284 (11.2)	7 (0.28)	7 (0.28)	-
LSLV0450S100-4 ²⁾	325 (12.8)	282 (11.10)	510 (20.1)	486.5 (19.15)	16 (0.63)	284 (11.2)	7 (0.28)	7 (0.28)	-
LSLV0550S100-4	325 (12.8)	275 (10.83)	550 (21.7)	524.5 (20.65)	16 (0.63)	309 (12.2)	9 (0.35)	9 (0.35)	-
LSLV0750S100-4	325 (12.8)	275 (10.83)	550 (21.7)	524.5 (20.65)	16 (0.63)	309 (12.2)	9 (0.35)	9 (0.35)	-
1) EMC filter built-in class2		in class3							









IP66 Type

Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	D1	D2	Α	Ø	T1	T2
LSLV0004S100-2X	180 (7.09)	170 (6.69)	256.6 (10.10)	245 (9.65)	8.2 (0.32)	174.2 (6.86)	188.2 (7.41)	4.5 (0.18)	4.5 (0.18)	22.3 (0.88)	-
LSLV0008S100-2X	180 (7.09)	170 (6.69)	256.6 (10.10)	245 9.65)	8.2 (0.32)	174.2 (6.86)	188.2 (7.41)	4.5 (0.18)	4.5 (0.18)	22.3 (0.88)	-
LSLV0004S100-4X 11	180 (7.09)	170 (6.69)	256.6 (10.10)	245 (9.65)	8.2 (0.32)	174.2 (6.86)	188.2 (7.41)	4.5 (0.18)	4.5 (0.18)	22.3 (0.88)	-
LSLV0008S100-4X 1)	180 (7.09)	170 (6.69)	256.6 (10.10)	245 (9.65)	8.2 (0.32)	174.2 (6.86)	188.2 (7.41)	4.5 (0.18)	4.5 (0.18)	22.3 (0.88)	-
LSLV0015S100-2X	220	204	258.8	241	11.8	201	215	5.5	5.5	22.3	28.6
	(8.66)	(8.03)	(10.19)	(9.49)	(0.46)	(7.91)	(8.46)	(0.22)	(0.22)	(0.88)	(1.13)
LSLV0022S100-2X	220	204	258.8	241	11.8	201	215	5.5	5.5	22.3	28.6
	(8.66)	(8.03)	(10.19)	(9.49)	(0.46)	(7.91)	(8.46)	(0.22)	(0.22)	(0.88)	(1.13)
LSLV0037S100-2X	220	204	258.8	241	11.8	201	215	5.5	5.5	22.3	28.6
	(8.66)	(8.03)	(10.19)	(9.49)	(0.46)	(7.91)	(8.46)	(0.22)	(0.22)	(0.88)	(1.13)
LSLV0040S100-2X	220	204	258.8	241	11.8	201	215	5.5	5.5	22.3	28.6
	(8.66)	(8.03)	(10.19)	(9.49)	(0.46)	(7.91)	(8.46)	(0.22)	(0.22)	(0.88)	(1.13)
LSLV0015S100-4X 1)	220	204	258.8	241	11.8	201	215	5.5	5.5	22.3	28.6
	(8.66)	(8.03)	(10.19)	(9.49)	(0.46)	(7.91)	(8.46)	(0.22)	(0.22)	(0.88)	(1.13)
LSLV0022S100-4X 1)	220	204	258.8	241	11.8	201	215	5.5	5.5	22.3	28.6
	(8.66)	(8.03)	(10.19)	(9.49)	(0.46)	(7.91)	(8.46)	(0.22)	(0.22)	(0.88)	(1.13)
LSLV0037S100-4X 1)	220	204	258.8	241	11.8	201	215	5.5	5.5	22.3	28.6
	(8.66)	(8.03)	(10.19)	(9.49)	(0.46)	(7.91)	(8.46)	(0.22)	(0.22)	(0.88)	(1.13)
LSLV0040S100-4X 1)	220	204	258.8	241	11.8	201	215	5.5	5.5	22.3	28.6
	(8.66)	(8.03)	(10.19)	(9.49)	(0.46)	(7.91)	(8.46)	(0.22)	(0.22)	(0.88)	(1.13)
LSLV0055S100-2X	250	232	328	308	11	227.2	241.2	6	6	22.3	28.6
	(9.84)	(9.13)	(12.91)	(12.13)	(0.43)	(8.94)	(9.50)	(0.24)	(0.24)	(0.88)	(1.13)
LSLV0075S100-2X	250	232	328	308	11	227.2	241.2	6	6	22.3	28.6
	(9.84)	(9.13)	(12.91)	(12.13)	(0.43)	(8.94)	(9.50)	(0.24)	(0.24)	(0.88)	(1.13)
LSLV0055S100-4X 1)	250	232	328	308	11	227.2	241.2	6	6	22.3	28.6
	(9.84)	(9.13)	(12.91)	(12.13)	(0.43)	(8.94)	(9.50)	(0.24)	(0.24)	(0.88)	(1.13)
LSLV0075S100-4X 1)	250	232	328	308	11	227.2	241.2	6	6	22.3	28.6
	(9.84)	(9.13)	(12.91)	(12.13)	(0.43)	(8.94)	(9.50)	(0.24)	(0.24)	(0.88)	(1.13)
LSLV0110S100-2X	260 (10.24)	229 (9.02)	399.6 (15.73)	377 (14.84)	14.6 (0.57)	245.4 (9.66)	259.6 (10.22)	6 (0.24)	-	22.3 (0.88)	34.9 (1.37)
LSLV0150S100-2X	300 (11.81)	270.8 (10.66)	460 (18.11)	436.5 (17.19)	15.5 (0.61)	250 (9.84)	264 (10.39)	6 (0.24)	-	22.3 (0.88)	44.5 (1.75)
LSLV0110S100-4X 11	260 (10.24)	229 (9.02)	399.6 (15.73)	377 (14.84)	14.6 (0.57)	245.4 (9.66)	259.6 (10.22)	6 (0.24)	-	22.3 (0.88)	34.9 (1.37)
LSLV0150S100-4X 11	260 (10.24)	229 (9.02)	399.6 (15.73)	377 (14.84)	14.6 (0.57)	245.4 (9.66)	259.6 (10.22)	6 (0.24)	-	22.3 (0.88)	34.9 (1.37)
LSLV0185S100-4X 11	300 (11.81)	270.8 (10.66)	460 (18.11)	436.5 (17.19)	15.5 (0.61)	250 (9.84)	264 (10.39)	6 (0.24)	-	22.3 (0.88)	44.5 (1.75)
LSLV0220S100-4X 11	300 (11.81)	270.8 (10.66)	460 (18.11)	436.5 (17.19)	15.5 (0.61)	250 (9.84)	264 (10.39)	6 (0.24)	-	22.3 (0.88)	44.5 (1.75)

H100

Fan & Pump Drive



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



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



Significant Energy Saving With LS Drive Solutions

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



Safe System Control

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



Optimized for HVAC and Water Treatment

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



Intended Use

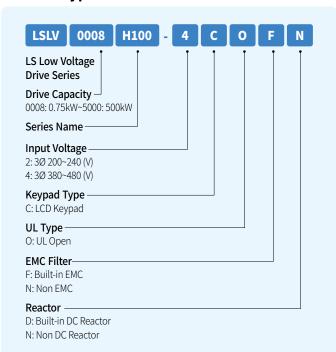
Applied to the following industries: building, metal, pulp/paper, coal mine, oil/gas and water treatment; (fan/pump, dryer)



Marine Certifications

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

Product Type & Model



Main Functions

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

Control

Control Mode	V/F, slip compensation
Fraguency Catting Decalution	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
Overland Conneity	5.5~90kW rated current: 120% 1min
Overload Capacity	110~500kW rated current: 110% 1min
Torque Boost	Passive torque boost; auto torque boost

Operation

•									
Operation	on Mode	Keypad, Terminal Block, Communica	ation Network options						
F	an Cattina	Analogue method: -10 ~ 10V, 0 ~ 10V,	0 ~ 20mA						
Frequen	ncy Setting	Digital method: keypad, pulse train in	nput						
Operatio	on Function	power switch; speed search; power b	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	PNP(Source), NPN(Sink) options According to the parameter setting of 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)

LSLV□□	□□H100-2□□□□□	8000	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	0.75										
	Rated Capacity (kVA)	1.9	3.0	4.5	6.1	8.4	11.4	16.0	21.3	26.3			
Outnut	Rated Current (A)	5	8	12	16	22	30	42	56	69			
Output	Rated Frequency (Hz)		0~400Hz										
	Rated Voltage (V)		3Ø 200~240V										
	Rated Voltage (V)		3Ø 200~240VAC (-15%~+10%)										
Input	Rated Frequency (Hz)				50	~60Hz (±5°	%)						
	Rated Current (A)	4.9	8.4	12.9	17.5	23.7	32.7	46.4	62.3	77.2			
Weight (k	g)	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	8000	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		
Output	Rated Frequency (Hz)					0~40	00Hz						
	Rated Voltage (V)		3Ø 380~480V										
	Rated Voltage (V)				3Ø3	380~480VA	C (-15%~+1	0%)					
Input	Rated Frequency (Hz)					50~60H	z (±5%)						
	Rated Current (A)	2.4	4.2	6.5	8.7	12.2	17.5	26.5	33.4	42.5	50.7		
Weight (k	g)	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)

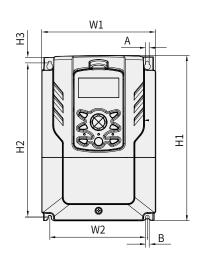
LSLV	H100-4	0300	0370	0450	0550	0750	0900			
Applied	HP	40	50	60	75	100	125			
Motor	kW	30	37	45	55	75	90			
	Rated Capacity (kVA)	46.5	57.1	69.4	82.0	108.2	128.8			
Output	Rated Current (A)	61	75	91	107	142	169			
Output	Rated Frequency (Hz)	0~400Hz								
	Rated Voltage (V)	3Ø 380~480V								
	Rated Voltage (V)	3Ø 380~480VAC (-15%~+10%)								
Input	Rated Frequency (Hz)	50~60Hz (±5%)								
•	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	4	2			
Weight (kg)/Non EMC		-	25	34	34	43				

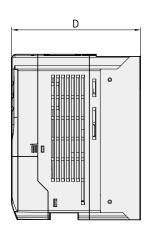
3Ø 400V Class (110~500kW)

	•	•									
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
Output	Rated Frequency (Hz)	0~400Hz									
	Rated Voltage (V)	3Ø 380~500V									
	Rated Voltage (V)	3Ø 380~500VAC (-15%~+10%)									
Input	Rated Frequency (Hz)					50~60H	z (±5%)				
	Rated Current (A)	215.1	254.6	315.3	358.9	419.1	469.3	598.1	666.4	751.3	938.6
Weight (k	g)	55.8	55.8	74.7	74.7	120.0	120.0	185.5	185.5	185.5	265

- $\bullet \, \text{The motor capacity is calculated with a standard 4-pole electric motor.}$
- 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)

11 20 1 y p c								Unit. mm (inches)
Model	W1	W2	H1	H2	Н3	D	Α	В
LSLV0008H100-2								
LSLV0015H100-2								
LSLV0022H100-2								
LSLV0037H100-2								
LSLV0055H100-2								
LSLV0075H100-2								
LSLV0110H100-2	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	181 (7.13)		
LSLV0008H100-4	100 (0.50)	157 (5.55)	232 (3.13)	210.5 (0.52)	10.5 (0.41)	181 (7.13)		5 (0.20)
LSLV0015H100-4							5 (0.20)	
LSLV0022H100-4								
LSLV0037H100-4								
LSLV0055H100-4								
LSLV0075H100-4								
LSLV0110H100-4								
LSLV0150H100-2		157 (6.18)	290 (44.42)	273.7 (10.78)	11.3 (0.45)	205.3 (8.08)		
LSLV0150H100-4	180 (7.09)							
LSLV0185H100-4								
LSLV0185H100-2				331 (13.03)	13 (0.51)	223.2 (8.79)	6 (0.24)	6 (0.24)
LSLV0220H100-4	220 (8.66)	193.8 (7.63)	350 (13.78)					
LSLV0300H100-4								
LSLV0370H100-4	275 (10.83)	232 (9.13)	450 (17.72)	428.5 (16.87)	14 (0.55)			
LSLV0450H100-4		282 (11.10)	510 (20.08)	486.5 (19.15)		284 (11.18)	7 (0.28)	7 (0.28)
LSLV0550H100-4	325 (12.08)	202 (11.10)	310 (20.00)	100.5 (15.15)	16 (0.63)			
LSLV0750H100-4		275 (10.83)	550 (21.65)	524.5 (20.65)	10 (0.00)	309 (12.80)		
LSLV0900H100-4		2.0 (10.00)	223 (21.03)	32 (20.00)		222 (12.00)		
LSLV1100H100-4		200 (7.87)	706 (27.80)			386 (15.20)	9 (0.35)	9 (0.35)
LSLV1320H100-4		200 (1.07)	. 00 (21.00)	685.5 (26.99)	9.5 (0.37)	300 (13.20)	9 (0.33)	9 (0.53)
LSLV1600H100-4	380 (14.96)	300 (11.81)	705 (27.76)			396 (15.59)		
LSLV1850H100-4	355 (11.50)	300 (11.01)	100 (21.10)			330 (13.33)		

IP00 Type

W1	W2	H1	H2	Н3	D	Α	В
426 (16 77)	220 (12 60)	022.2 (26.21)	00E E (2E 2C)	1E E (O C1)	440 (17 22)	11 (0 42)	11 (0.43)
426 (16.77)	320 (12.00)	922.3 (30.31)	895.5 (35.26)	15.5 (0.61)	440 (11.32)	11 (0.43)	11 (0.43)
600 (23.62)	420 (16.54)	1000 (39.37)	972 (38.27)	15 (0.59)	E00 (10 C0)	14 (O EE)	14 (O EE)
					500 (19.69)	14 (0.55)	14 (0.55)
776 (30.55)	500 (19.69)	1054 (41.50)	1021 (40.20)	20 (0.79)			
	426 (16.77) 600 (23.62)	426 (16.77) 320 (12.60) 600 (23.62) 420 (16.54)	426 (16.77) 320 (12.60) 922.3 (36.31) 600 (23.62) 420 (16.54) 1000 (39.37)	426 (16.77) 320 (12.60) 922.3 (36.31) 895.5 (35.26) 600 (23.62) 420 (16.54) 1000 (39.37) 972 (38.27)	426 (16.77) 320 (12.60) 922.3 (36.31) 895.5 (35.26) 15.5 (0.61) 600 (23.62) 420 (16.54) 1000 (39.37) 972 (38.27) 15 (0.59)	426 (16.77) 320 (12.60) 922.3 (36.31) 895.5 (35.26) 15.5 (0.61) 440 (17.32) 600 (23.62) 420 (16.54) 1000 (39.37) 972 (38.27) 15 (0.59) 500 (19.69)	426 (16.77) 320 (12.60) 922.3 (36.31) 895.5 (35.26) 15.5 (0.61) 440 (17.32) 11 (0.43) 600 (23.62) 420 (16.54) 1000 (39.37) 972 (38.27) 15 (0.59) 500 (19.69) 14 (0.55)

L100

Drive for Lift Application



•3Ø 380~480V 5.5~22kW



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



L100 series, the optimal solution for lifting applications

Optimized for elevators and load lifting operation, the LS ELECTRIC L100 series offers best-in-class performance. With size-optimized solutions for these applications, the L100 provides essential functions and options, which further enhance customer value.



Best-in-class size competitiveness

Along with performance enhancement, size was reduced by applying heat dissipation analysis and utilising a 3D design process.



Optimization for Elevator/Lift

By Premium High Performance Vector Control, L100 can drive both IM/PM loads with optimal control algorithm (Voltage/Speed/Flux) for smooth and precise operation.

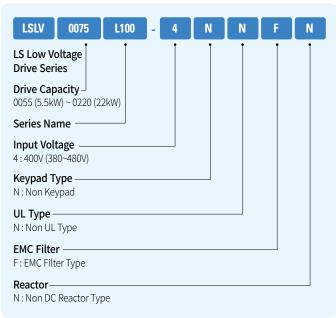
it saves your commissioning time through optimal Auto-tuning and essential Functions for Elevator operation.



Intended Use

- Elevator
- Lift
- Automatic warehouse parking facility

Product Type & Model



Main Functions

Features	Description	Benefit		
The Optimal Solution for Elevator	Creepless, Anti rollback control, Auto load cell configuration ,Using the battery operation mode, ALLS(Automatic Light Load Search), Anti-hunting	Providing optimal functions for driving elevator		
Built-in EMC Filter, Braking Unit	Built-in EMC filter(C2) to reduce noise, built-in dynamic brake circuit to control generative load	Excellent noise resistance, regenerative power control		
Enhanced Maintenance Convenience	LED for displaying status, LCD keypad connection with sliding door, Removable terminal for easy maintenance, Easy replacement of cooling fan	Convenient Installation & Test Run		
Various Field Networks	Built-in CAN2.0B/RS232, CAN communication support	Enhanced maintenance convenience and test run, Simultaneous control maximum 8ea with CAN Communication		
Best-in-class Size Competitiveness	Half-sized compared to other company products	Reduced installation space improves the efficiency of internal and external configuration of the control panel		
Various Option Card	E/LIO, Incremental Encoder, EnDat Encoder, SIN/COS Encoder	Optimization of elevator and lift operation by providing various and optimized option cards		

Control

	Control method		Induction motor (IM)		•Speed (sensored •V/F control •Slip compensation			
	Control	metnoa	Synchronous motor (PM)		Speed(Sensored)			
	Speed control		[Induction motor (IM)] Analog settings: \pm 0.1 % (25 \pm 10°C) of max speed (1800 rpm) Digital settings: \pm 0.1 % (0-40°C) of max speed (1800 rpm) Analog settings: \pm 0.1 % (25 \pm 10°C) of max speed (680 rpm) Digital settings: \pm 0.015 % (0-40°C) of max speed (680 rpm)					
Con- trol	Speed setting resolution		Analog settings: \pm 0.1 % of max speed Digital settings: 0.1 rpm					
	Speed control response speed		50Hz					
	Overload	d capacity	Rated current: 150%, 1 min					
	Accel-	Time settings	0.00-600.0 sec	0.00-600.0 sec				
	eration /Decel-	Combination	4 acceleration/deceleration	time choices				
	eration	Pattern	Linear, S-Curve	inear, S-Curve				

Operation

Input	Speed configuration	- Digital settings via the keypad - Analog input settings	- Multistep configurations via terminal input - Speed control via optional add-on modules					
	Analog input	2 channels (V1, I1) $0 \rightarrow 10$ V, $10 \rightarrow 0$ V, $-10 \rightarrow 10$ V, $10 \rightarrow -10$ V $0 \rightarrow 20$ mA, $20 \rightarrow 0$ mA 2 choices for multifunction analog input: speed or torque bias						
	Terminal contact input	FX, RX, BX, RST, P1, P2, P3, P4, P5, P6, P7 Various functions may be assigned to multifunction input terminals (P1-P7).						
Out-								
put	Terminal contact output	Multifunction terminal contact output: 4 channels (A1-C1, A2-C2, A3-C3, A4-C4) Fault terminal contact output: 1 channel (30A-30C, 30B-30C)						

Drive for Lift Application

Specification

LSLV□□□□L100-4NNFN		0055	0075	0110	0150	0185	0220		
Motor Note 1)	[HP]	7.5	10	15	20	25	30		
MOLOI	[kW]	5,5	7.5	11	15	18.5	22		
	Catacity[kVA] Note 1)	9.1	12.2	18,3	22,9	29.7	34.3		
Data d Outrout	Current[A]	12	16	24	30	39	45		
Rated Output	Speed	Induction motor: 0~3600[RPM], Synchronous motor: 0~680[RPM]							
	Voltage	0 ~ 380(480V Note 2))							
	Voltage	3 phase 380-480V (-10% ~ +10%) Note 3)							
Rated Input	Frequency	50 ~ 60 Hz(±5%)							
mpac	Current[A]	12.9	17.5	26.5	33.4	43.6	50,7		
Weight[kg (lbs)]		3.3 (7.3)	3.4 (7.5)	4.6 (10.2)	4.8 (10.6)	7.5 (16.6)	8.0 (17.7)		

Note1) The rated motor capacity is based on a standard 4-pole motor. 400 V inverters are designed for a 440 V supply voltage.

Note2) The maximum output voltage cannot exceed the input voltage.

Note3) If the input voltage is greater than 480 V, apply input voltage derated by 10% from the rated input voltage. Also, install an AC reactor in the power input side if the voltage imbalance between the phases is greater than 2%.

[Voltage imbalance [%] = Max voltage [V] - Min voltage [V] / Three-phase average voltage [V] x 67 (IEC 61800-3 (5.2.3)]

Elevator I/O option card



Incremental Encoder

- Incremental A/B Pulse
- Power: DC5V/12V/15V supply
- Input: A+[PA], A-, B+[PB], B-
- Output: RA, RB, RG (Encoder A, B phase return pulse)
- Support Encoder: Line Dive (+5V), Open Collector (+12V, +15V), Complementary



SIN/COS Encoder

- HEIDENHAIN Encoder
- Power: DC5V supply
- Input: SIN+, SIN-, COS+, COS-, SIN2+, SIN2-, COS2+, COS2-
- · Output: RA, RB, RG
- Support Encoder: ECN413, ECN1313, ERN487, ERN1387



EnDat Encoder

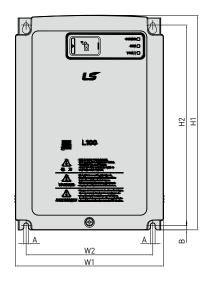
- HEIDENHAIN Encoder (EnDat v2.2)
- Power: DC5V supply
- Input: SIN+, SIN-, COS+, COS-, DATA+, DATA-, CLK+, CLK-
- Output: RA, RB, RG
- Support Encoder: ECN413, ECN1313, ERN487, ERN1387

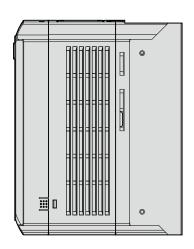


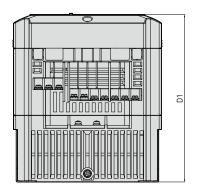
Elevator I/O (ELIO)

- Dedicated to elevator I/O terminal
- Digital input: 9 points for the elevator car control (photo-coupler isolation, PNP/NPN input mode)
- Digital output: 10 points for the position of the elevator car and operation control (Isolated open collector 8 points, relay A (NO) 2 points)
- Fault information output: 4 points (Isolated open collector)

Product Dimension







Unit: mm (inches)

Model	W1	W2	H1	H2	D1	Α	В	Weight [kg (lbs)]
LSLV055L100-4	160	137	232	217	181	5	5	3.3 (7.3)
LSLV075L100-4	[6.30]	[5.39]	[9.13]	[8.54]	[7.16]	[0.20]	[0.20]	3.4 (7.5)
LSLV110L100-4	180	157	290	274	205	5	5	4.6 (10.2)
LSLV150L100-4	[7.09]	[6.18]	[11.42]	[10.79]	[8.07]	[0.20]	[0.20]	4.8 (10.6)
LSLV185L100-4	220 [8.66]		350 [13.78]	331 [13.78]	223	6	6	7.5 (16.6)
LSLV220L100-4					[8.78]	[0.24]	[0.24]	8.0 (17.7)

High Performance Drive



- 3Ø 200V 0.75kW~90kW
- 3Ø 400V 0.75kW~450kW

IP54

- 3Ø 200V 0.75~30kW
- 3Ø 400V 0.75~30kW











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

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



Powerful Sensorless Vector Control

Sensorless 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

V/F, V/F PG, slip compensation, sensorless vector, and sensored vector control are possible. LS satisfies any customer's needs through various functions such as torque control, droop control, KEB, Flying Start, and Easy Start.



Intended Use

Warping / Beaming machine

Drawing machine

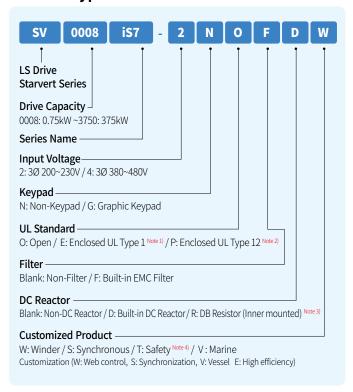
• Tire line

- Construction lift
- Laminating machine Crane/Hoist

Elevator

- 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) 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, V/F PG, Slip compensation, Sensorless, Sensored vector
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 Capacity	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	Analogue method: $0 \sim 10$ (V), $-10 \sim 10$ (V), $0 \sim 20$ (mA) Digital method: Keypad					
Operatio	on Function	secondary function; slip compensation; reverse re	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 5)	Function: Forward operation; backward operation; reset; external trip; emergency trip; jog operation switching frequency – high, middle, low; acceleration and deceleration by stage – high, middle, low braking at pause; second motor option; frequency increase; frequency decline; 3-wire operation; switching to the general operation during PID operation; switching to body operation during option operation; analogue command fixed frequency; acceleration or deceleration stop						
	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						

 ${\color{red}Note 5) According to the parameter setting of IN-65~72, various functions related to multifunctional terminal can be set.}$

High Performance Drive

200V Class (0.75~22kW)

SV	/□□□□is7-2□		8000	0015	0022	0037	0055	0075	0110	0150	0185	0220	
	Hoover Duty (CT)	(HP)	1	2	3	5	7.5	10	15	20	25	30	
Applied	Heavy Duty (CT)	(kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	
Motor Note 1)	Normal Duty (VT)	(HP)	2	3	5	7.5	10	15	20	25	30	40	
	Normal Duty (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	17.5	22.9	28.2	33.5	
	Rated Current (A)	СТ	5	8	12	16	24	32	46	60	74	88	
Output	Note 3)	VT	8	12	16	24	32	46	60	74	88	124	
	Rated Frequency (H	z)	0~400 (Hz) (Sensorless-1: 0~300Hz, Sensorless-2, Vector: 0~120Hz) Note 4)										
	Rated Voltage (V)		3Ø 200~230V Note 5)										
	Rated Voltage (V)		3Ø 200~230VAC (-15% ~ +10%)										
lanut	Rated Frequency (H	z)					50~60 (H	z) (±5%)					
Input	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	
Weight[kg],	Weight[kg], Non EMC&DCR		4.5 7.7 14 22.9							2.9			

200V Class (30~75kW)

SI	/□□□□iS7-2□		0300	0370	0450	0550	0750	-	-	-	-	-	
	Hoover Duty (CT)	(HP)	40	50	60	75	100	-	-	-	-	-	
Applied	Heavy Duty (CT)	(kW)	30	37	45	55	75	-	-	-	-	-	
Motor Note 1)	Nomal Duty (VT)	(HP)	50	60	75	100	125	-	-	-	-	-	
Nomal Duty (V1)		(kW)	37	45	55	75	90	-	-	-	-	-	
	Rated Capacity (kVA) Note 2			57	69	84	116	-	-	-	-	-	
()liffilit	Rated Current (A) Note 3)	СТ	116	146	180	220	288	-	-	-	-	-	
Output		VT	146	180	220	288	345	-	-	-	-	-	
	Rated Frequency (H	z)	0~400 (Hz) (Sensorless-1: 0~300Hz, Sensorless-2, Vector: 0~120Hz) Note 4)										
	Rated Voltage (V)						3Ø 200~2	230V Note 5)					
	Rated Voltage (V)					3Ø 2	00~230VAC	C (-15% ~ +	10%)				
Innut	Rated Frequency (H	z)					50~60 (H	z) (±5%)					
Input	Dated Current (A)	СТ	121	154	191	233	305	-	-	-	-	-	
	Rated Current (A)	VT	152	190	231	302	362	-	-	-	-	-	
Weight[kg],	Weight[kg], Non EMC&DCR			29.5 44 72.5							-		

400V Class (0.75~22kW)

S	/□□□□is7-4□		8000	0015	0022	0037	0055	0075	0110	0150	0185	0220
	Hoover Duty (CT)	(HP)	1	2	3	5	7.5	10	15	20	25	30
Applied	Heavy Duty (CT)	(kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Motor Note 1)	Normal Duty (VT)	(HP)	2	3	5	7.5	10	15	20	25	30	40
	Normal Duty (V1)	(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	Note 3)	VT	4	6	8	12	16	24	30	39	45	61
	Rated Frequency (H	z)		0~40	00 (Hz) (Se	nsorless-1:	0~300Hz,	Sensorless	-2, Vector:	0~120Hz)	Note 4)	
	Rated Voltage (V)		3Ø 380~480V Note 5)									
	Rated Voltage (V)		3Ø 380~480VAC (-15%~+10%)									
Innut	Rated Frequency (H	z)					50~60 (H	z) (±5%)				
Input	Rated Current (A)	СТ	2.2	3.6	5.5	7.5	11.0	14.4	22.0	26.6	35.6	41.6
	Rateu Current (A)	VT	3.7	5.7	7.7	11.1	14.7	21.9	26.4	35.5	41.1	55.7
Weight[kg]	Weight[kg], Non EMC&DCR			4	.5		7	.7	1	4	19.7	20.1

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)

S	V□□□□iS7-4□		0300	0370	0450	0550	0750	0900	1100	1320	1600	1850	2200	2800	3150	3750
	Hoover Duty (CT)	(HP)	40	50	60	75	100	125	150	200	250	300	350	400	500	600
Applied	Heavy Duty (CT)	(kW)	30	37	45	55	75	90	110	132	160	185	220	280	315	375
Motor Note 1)	Normal Duty (VT)	(HP)	50	60	75	100	125	150	200	250	300	350	400	500	600	700
	Normal Duty (V1)	(kW)	37	45	55	75	90	110	132	160	185	220	280	315	375	450
	Rated Capacity (kVA) Note2)			57	69	84	116	139	170	201	248	286	329	416	467	557
	Rated Current (A) Note 3)	СТ	61	75	91	110	152	183	223	264	325	370	432	547	613	731
Output		VT	75	91	110	152	183	223	264	325	370	432	547	613	731	877
	Rated Frequency (H	z)	0~400 (Hz) (Sensorless-1: 0~300Hz, Sensorless-2, Vector: 0~120Hz) Note 4)													
	Rated Voltage (V)			3Ø 380~480V Note 5)												
	Rated Voltage (V)							3Ø 380	-480VA	C (-15%	, +10%))				
lanut	Rated Frequency (H	z)						50)~60 (H	z) (±5%	6)					
Input	Rated Current (A) CT VT	СТ	55.5	67.9	82.4	102.6	143.4	174.7	213.5	255.6	316.3	404	466	605	674	798
		VT	67.5	81.7	101.8	143.6	173.4	212.9	254.2	315.3	359.3	463	590	673	796	948
Weight[kg],	Weight[kg], Non EMC&DCR			28 45 101* 114* 200* 252 352						52						

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 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.

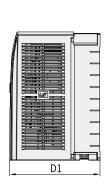
The performance of NON DCR products is guaranteed only for CT (Heavy Duty) load.

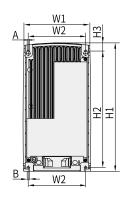
High Performance Drive

Product Dimension

(IP20/IP00)



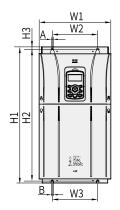


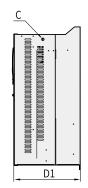




Unit:	mm	(inche	S

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)	5 (0.19)	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)	3 (0.19)	3 (0.19)
SV0110~0150iS7-2/4	250 (9.84)	214.6 (8.44)	385 (15.15)	355 (13.97)	23.6 (0.92)	284 (11.18)	6.5 (0.25)	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)	0.5 (0.25)	0.5 (0.25)







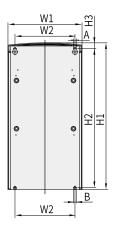


Unit: mm (inches

								UIIII	· IIIII (IIICHES)
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)	0 (0 35)	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)	9 (0.35)	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)	11 (0.43)	M16



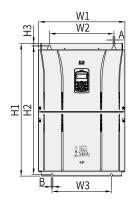






Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	D1	D2	Α	В	С
SV0300~0450iS7-4	300.1	242.8	594.1	562	24.1	DCR type				
	(11.81)	(9.55)	(23.38)	(22.12)	(0.94)	302.7(11.92)	161(6.33)	10	10	140
CV0550 0750;C7 4	370.1	312.8	663.5	631.4	24.1	DCR	type	(0.39)	(0.39)	M8
SV0550~0750iS7-4	(14.57)	(12.31)	(26.12)	(24.85)	(0.94)	373.3(14.69)	211.5(8.32)			









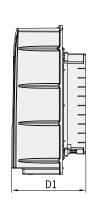
Unit: mm (inches)

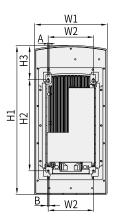
										it iiiii (iiitiles)
Model	W1	W2	W3	H1	H2	Н3	D1	A	В	С
SV0900~1100iS7-4	510 (20.07)	381 (15.0)	350 (13.77)	783.5 (30.84)	759 (29.88)	15.5 (0.61)	422.6 (16.63)	11	11	M16
SV1320~1600iS7-4	510 (20.07)	381 (15.0)	350 (13.77)	861 (33.89)	836.5 (32.93)	15.5 (0.61)	422.6 (16.63)	(0.43)	(0.43)	IMIO
SV1850~2200iS7-4	690 (27.16)	581 (22.87)	528 (20.79)	1078 (42.44)	1043.5 (41.08)	25.5 (1.00)	449.6 (17.70)	14 (0.55)	15 (0.59)	M20
SV2800iS7-4	772 (30.39)	500 (19.69)	500 (19.69)	1140.5 (44.90)	1110 (43.70)	15 (0.59)	442 (17.40)	13 (0.51)	13 (0.51)	M16
SV3150~3750iS7-4	922 (36.30)	580 (22.83)	580 (22.83)	1302.5 (51.28)	1271.5 (50.06)	15 .5 (0.61)	495 (19.49)	14 (0.55)	14 (0.55)	M16

Product Dimension

(IP54)









Unit: mm (inches)

Model	W1	W2	H1	H2	Н3	D1	Α	В	
SV0008~0037iS7-2/4	204.2 (8.04)	127 (5.00)	419 (16.49)	257 (10.12)	95.1 (3.74)	208 (8.18)	5 (0.19)	5 (0.19)	
SV0055~0075iS7-2/4	254 (10.00)	176 (6.92)	460.6 (18.13)	327 (12.87)	88.1 (3.46)	232.3 (9.14)	3 (0.19)	3 (0.19)	
SV0110~0150iS7-2/4	313.1 (12.32)	214.6 (8.44)	590.8 (23.25)	355 (13.97)	101.7 (4.00)	294.4 (11.59)	6.5 (0.25)	C E (0.2E)	
SV0185~0220iS7-2/4	343.2 (13.51)	243.5 (9.58)	750.8 (29.55)	445 (17.51)	91.6 (3.60)	315.5 (12.42)	0.5 (0.25)	6.5 (0.25)	

iV5

Vector Drive



- 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





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

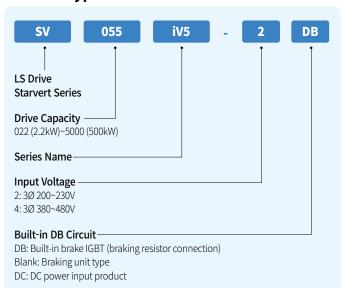
It supports systems and efficient management with user-centered keypads and terminal blocks, communication networks and Drive View.



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

Control Mode		Sensored vector, Sensorless 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 I	Resolution	Analogue setting: ±0.1% of the maximum speed / Digital setting: 0.1rpm						
Speed Control	Response Speed	50Hz						
Torque Control	Level	±3%						
Overload Capa	city	Continuous (CT): 150% / 1min						
	Time Setting	0.00~6000.0						
Acceleration/ Deceleration	Combination	4 types of acceleration/deceleration time options						
2 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Pattern	Linear, S-curve						

Brake

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

Vector Drive

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		
Out-ut	Rated Current (A)	12	16	24	32	46	59	74	88	122	146		
Output	Rated Speed (RPM)		0~3600 (rpm)										
	Rated Voltage (V)					200~23	OV Note 3)						
lanut	Rated Voltage (V)				3Ø	200~230V	(-10%~+10)%)					
Input	Rated Frequency (Hz)	50~60Hz (±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)

	·	<i>,</i> ,										
sv□]□□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	
Out-ut	Rated Current (A)	6	8	12	16	24	30	39	45	61	75	
Output	Rated Speed (RPM)	0~3600 (rpm)										
	Rated Voltage (V)					380~48	OV Note 3)					
la acch	Rated Voltage (V)				3Ø 38	30~480V (-1	.0%~+10%	Note 4)				
Input	Rated Frequency (Hz)	50~60Hz (±5%)										
Drive Weight (kg		6 6 7.7 7.7 13.7 13.7 20.3 20.3 42 4						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
Outract	Rated Current (A)	91	110	152	183	223	264	325	432	546	614	731	960	1384
Output	Rated Speed (RPM)						0~	3600 (rp	m)					
	Rated Voltage (V)						380)~480V N	ote 3)					
lanut	Rated Voltage (V)					3Ø3	380~480	V (-10%	~+10%)	Note 4)				
Input	Rated Frequency (Hz)	50~60Hz (±5%)												
Drive Weight (kg)	63	63	68	98	98	122	122	175	243	380	380	476	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			
0	Rated Current (A)	12	16	24	30	39	45	61	75	91	110			
Output	Rated Speed (RPM)	0~3600 (rpm)												
	RatedVoltage (V)					380~48	30V Note 3)							
Input Rated Volt	age		DC 540~680V (+10%) Note 4)											
Drive Weight (kg	Drive Weight (kg)			24	24.5	25	25	38.5	38.5	50	50			
ev.	777. 4/DC)	750												
50 □										2750	FAAA			
	□□iV5-4(DC)	750	900	1100	1320	1600	2200	2800	3150	3750	5000			
Applied Motor	(HP)	100	900 120	1100 150	1320 175	1600 215	300	2800 373	3150 420	3750 500	5000 666			
Applied Motor														
	(HP)	100	120	150	175	215	300	373	420	500	666			
Note 1)	(HP) (kW)	100 75	120 90	150 110	175 132	215 160	300 220	373 280	420 315	500 375	666 500			
	(HP) (kW) Capacity (kVA) Note 2)	100 75 116	120 90 140	150 110 170	175 132 200	215 160 250 325	300 220 329	373 280 416	420 315 468	500 375 557	666 500 732			
Note 1)	(HP) (kW) Capacity (kVA) Note 2) Rated Current (A)	100 75 116	120 90 140	150 110 170	175 132 200	215 160 250 325 0~3600	300 220 329 432	373 280 416	420 315 468	500 375 557	666 500 732			
Note 1)	(HP) (kW) Capacity (kVA) Note 2) Rated Current (A) Rated Speed (RPM) RatedVoltage (V)	100 75 116	120 90 140	150 110 170	175 132 200 264	215 160 250 325 0~3600 380~48	300 220 329 432 0 (rpm)	373 280 416 546	420 315 468	500 375 557	666 500 732			
Output	(HP) (kW) Capacity (kVA) Note 2) Rated Current (A) Rated Speed (RPM) RatedVoltage (V) age	100 75 116	120 90 140	150 110 170	175 132 200 264	215 160 250 325 0~3600 380~48	300 220 329 432 0 (rpm)	373 280 416 546	420 315 468	500 375 557	666 500 732			

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						
Outnut	Rated Current (A)	18	36	52							
Output	Rated Speed (RPM)	0~200 (rpm)									
	RatedVoltage (V)	380~480V Note 3)									
lanut	RatedVoltage (V)		3Ø 380~480V (-1	L0%~+10%) Note 5)							
Input	Rated Frequency (Hz)		50~60H	z (±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.

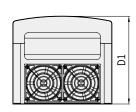
Note 3) The maximum output voltage does not exceed the source voltage.

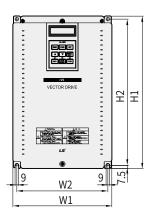
Note 4) When the input voltage is 680VDC or above, 10% derating of the rated current should be performed.

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

Vector Drive

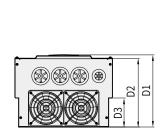
Product Dimension

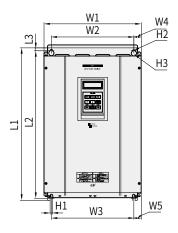




Unit: mm (inches)

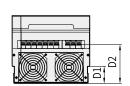
Model	W1	W2	H1	H2	D1
SV022iV5-2/4DB (MD) SV037iV5-2/4DB (MD)	200 (7.87)	180 (7.08)	284 (11.18)	269 (10.59)	207 (8.14)
SV055iV5-2/4DB (MD) SV075iV5-2/4DB (MD)	200 (1.01)	100 (1.00)	355 (13.97)	340 (13.38)	202 (7.95)
SV110iV5-2/4DB (MD) SV150iV5-2/4DB (MD)	250 (9.84)	230 (9.05)	385 (15.15)	370 (14.56)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

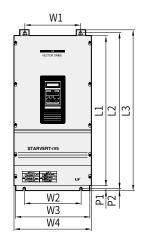


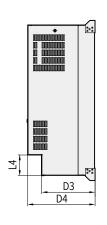


Model	W1	W2	W3	W4	W5	L1	L2	L3	D1	D2	D3	H1	H2	Н3
SV055iV5-2/4DB	234.4	18	30	27	7.2	406.2	391.2	7.5	221.1	209.5	75	6	Ф6	Ф12
SV075iV5-2/4DB	(9.22)	(7.	08)	(1.	07)	(15.99)	(15.40)	(0.29)	(8.70)	(8.24)	(2.95)	(0.23)	(Ф0.23)	(Ф0.47)
SV110 iV5-2/4DB														
SV150iV5-2/4DB	335	28	34	25	5.5	526	509	10	248.6	237	100	7	Ф7	Ф14
SV185iV5-2/4DB	(13.18)	(11	(11.18)	(1.00)	00)	(20.70)	(20.03)	20.03) (0.39)	(9.78) (9	(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.

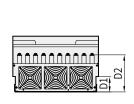


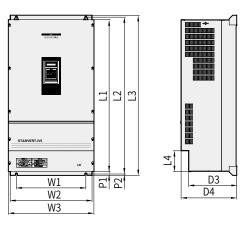




Unit: mm (inches)

Model	W1	W2	W3	W4	L1	L2	L3	D1	D2	D3	D4	P1	P2
SV300iV5-2/4	27	70	319.2	350	635	660	680	120	197	256.6	308.2	16.9	8
SV370iV5-2/4	(10.	62)	(12.56)	(13.77)	(25.00)	(25.98)	(26.77)	(4.72)	(7.75)	(10.10)	(12.13)	(0.66)	(0.31)
SV450iV5-4		_											
SV550iV5-4	27 (10	(5 .82)	359.6 (14.15)	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	(10.		(225)	(2 0)	(20.10)	(20.00)	(55.10)	(3.21)	((20.20)	(22.00)	(5.50)	(3.11)



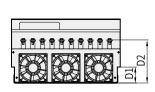


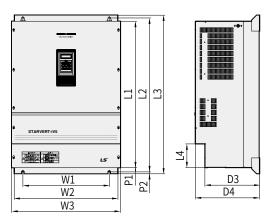
Model	W1	W2	W3	L1	L2	L3	D1	D2	D3	D4	P1	P2		
SV900iV5-4						72	729	760	760 780 83.2	234.6	286.2	335		
SV1100iV5-4	430		530	530	(28.70)	(29.92)	(30.70)	(3.27)	(9.23)	(11.26)	(13.18)	23.5	8.5	
SV1320iV5-4	(16.92)		(19.96) (2	(19.96) (20.86)	949	980	1000	95.2	231.6	298	345	(0.92)	(0.33)	
SV1600iV5-4				(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 Dimension

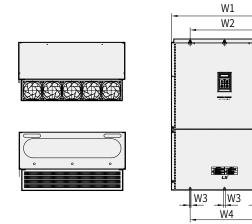


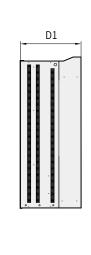


Unit: mm (inches)

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.



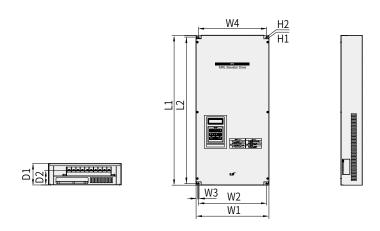


H H

W3

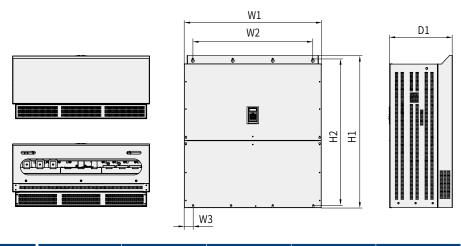
Model	W1	W2	W3	W4	H1	H2	D1	
SV2800iV5-4	772 (30.39)	500 (19.68)	13 (0.51)	500 (19.68)	1140.5 (44.90)	1110 (43.70)	442 (17.40)	
SV3150iV5-4	922 (36.29)	580 (22.83)	14 (0.55)	580 (22.83)	1302.5 (51.27)	1271.5 (50.05)	495 (19.48)	
SV3750iV5-4	922 (30.29)	380 (22.83)	14 (0.55)	360 (22.63)	1302.3 (31.21)	1271.3 (30.03)	490 (19.48)	

^{*} 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		310	680	666	97.2	64.7		
MRL 110-4	(12.99)	(12.20)	7	(12.20)	(26.77)	(26.22)	(3.82)	(2.54)	14	7
MRL 150-4	27E (14.76)	355 (13.97)	(0.27)	355 (13.97)	700 (27.55)	686 (27.00)	108.5 (4.27)	75.7	(0.55)	(0.27)
MRL 220-4	313 (14.10)	333 (13.91)					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 LS Drive Options

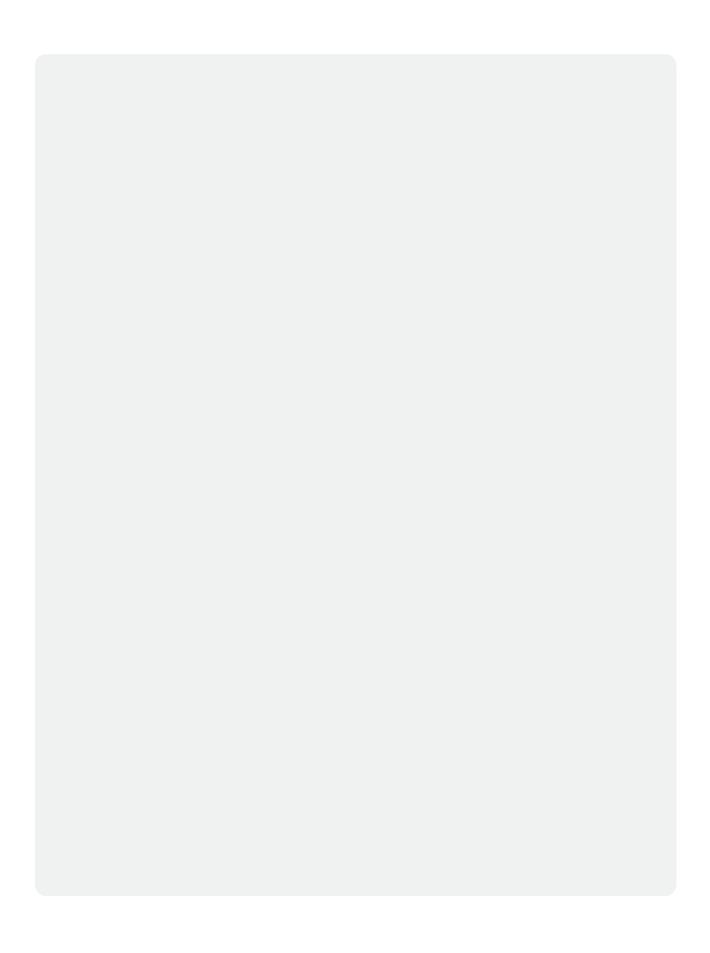
The table below describes a list of options for various LS drives. Please contact LS for further details on our drive options.

Series	Option Name						
	M100 remote keypad						
M100	Remote cable (1m, 2m, 3m, 5m)						
	G100 remote keypad *						
	Remote cable (1m, 2m, 3m, 5m)						
C100/C100C	RAPIEnet+ (2port) (Ethernet IP, Modbus TCP, RAPIEnet)						
G100/G100C	Profibus-DP						
	CANopen						
	G100 replacement remote keypad (Retrofit compatible)						
	Modbus TCP						
	PROFInet						
	EtherCAT						
	EtherNet/IP						
	Profibus-DP						
	CANopen						
S100	RAPIEnet+ (2port) (Ethernet IP, Modbus TCP, RAPIEnet)						
	Extension I/O						
	S100 LCD keypad						
	S100 remote keypad (LED)						
	Remote cable (1m, 2m, 3m, 5m)						
	Lonworks						
11100	H100 remote keypad						
H100	Remote cable (1m, 2m, 3m, 5m)						
	RAPIEnet ⁺						
	Incremental Encoder						
	EnDat Encoder						
1100	SIN/COS Encoder						
L100	Elevator I/O (ELIO)						
	LCD keypad						
	Remote cable						

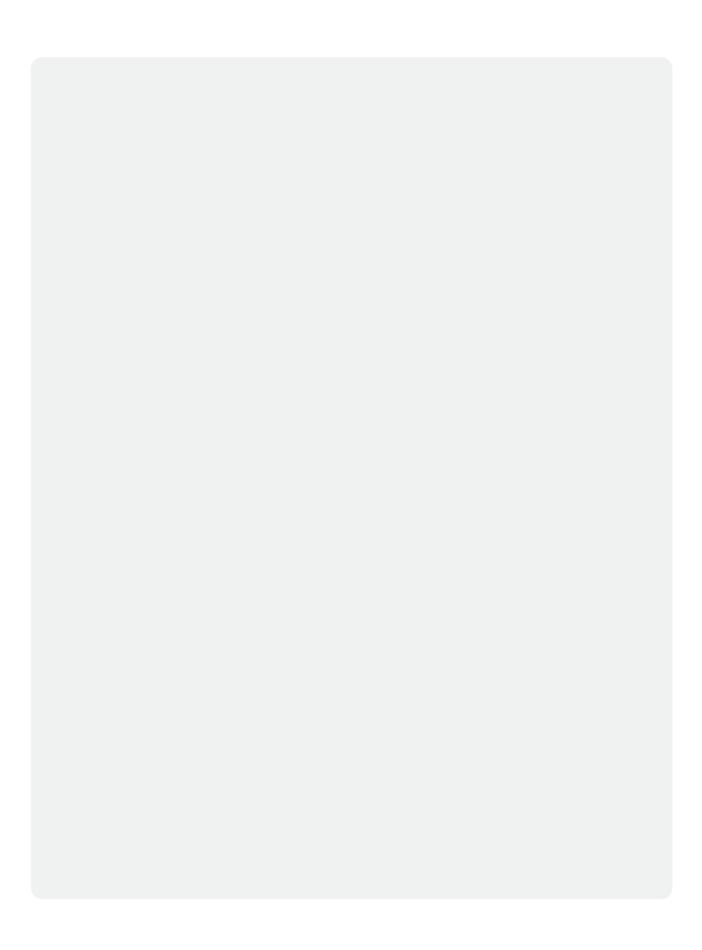
EtherNet IP/Modbus TCP(1Port) EtherNet IP/Modbus TCP(2Port) PROFINET CC-Link IE RAPIEnet RAPIEnet+ (2port) (Ethernet IP, Modbus TCP, RAPIEnet) DeviceNet Profibus-DP CANopen CC-Link Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O SIN / COS + Endat	Series	Option Name					
PROFINET CC-Link IE RAPIEnet RAPIEnet+ (2port) (Ethernet IP, Modbus TCP, RAPIEnet) DeviceNet Profibus-DP CANopen CC-Link Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		EtherNet IP/Modbus TCP(1Port)					
CC-Link IE RAPIEnet RAPIEnet+ (2port) (Ethernet IP, Modbus TCP, RAPIEnet) DeviceNet Profibus-DP CANopen CC-Link Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		EtherNet IP/Modbus TCP(2Port)					
RAPIEnet RAPIEnet+ (2port) (Ethernet IP, Modbus TCP, RAPIEnet) DeviceNet Profibus-DP CANopen CC-Link Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		PROFINET					
RAPIEnet+ (2port) (Ethernet IP, Modbus TCP, RAPIEnet) DeviceNet Profibus-DP CANopen CC-Link Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		CC-Link IE					
(Ethernet IP, Modbus TCP, RAPIEnet) DeviceNet Profibus-DP CANopen CC-Link Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		RAPIEnet					
Profibus-DP CANopen CC-Link Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		RAPIEnet+ (2port) (Ethernet IP, Modbus TCP, RAPIEnet)					
CANopen CC-Link Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		DeviceNet					
iS7 CC-Link Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		Profibus-DP					
is7 Modbus RTU Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		CANopen					
Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		CC-Link					
Fnet, Rnet Lonworks PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O	•	Modbus RTU					
PLC Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O	iS7	Fnet, Rnet					
Extension I/O Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		Lonworks					
Safety Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		PLC					
Synchronous control Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		Extension I/O					
Position control Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		Safety					
Binary Input Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		Synchronous control					
Encoder(5/12/15V) 24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		Position control					
24V Encoder LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		Binary Input					
LCD Keypad Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		Encoder(5/12/15V)					
Remote cable(2m, 3m) RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		24V Encoder					
RS-485 Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		LCD Keypad					
Modbus RTU DeviceNet Profibus-DP CC-Link Synchronization EL I/O		Remote cable(2m, 3m)					
iV5 DeviceNet Profibus-DP CC-Link Synchronization EL I/O		RS-485					
iV5 Profibus-DP CC-Link Synchronization EL I/O		Modbus RTU					
iV5 CC-Link Synchronization EL I/O		DeviceNet					
Synchronization EL I/O		Profibus-DP					
Synchronization EL I/O	375	CC-Link CC-Link					
	IVO	Synchronization					
SIN / COS + Endat		EL I/O					
		SIN / COS + Endat					
Extension I/O		Extension I/O					
24V Encoder		24V Encoder					
Parameter Copy Unit	Common	Parameter Copy Unit					
Common Smart Copier	Common	Smart Copier					

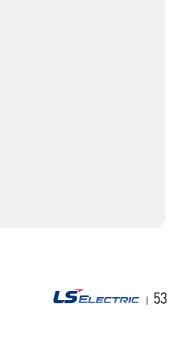
 $[\]begin{tabular}{ll} \star & $\mathsf{G}100/\mathsf{M}100$ remote keypads are compatible. \end{tabular}$

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.



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