



LS Industrial Systems

New Name of  LG Industrial Systems

S100

**High Performance Standard
Variable Frequency Drive
3-phase 400V, 0.4 ~ 75KW**

Part Number

LSLV 0055 S100 - 4 E O F N S

	Motor Rating	Series Name	Input Voltage	Keypad	Enclosure	EMC Filter	Reactor	I/O
LS Low Voltage Series	0004:0.4KW	S100	1: 1-ph 200~240	E: LED	O: IP20	Blank: None	N: None	M: 3.5
	0040:4KW		2: 3-ph 200~240	C: LCD	X: IP66	F: Built-in	D: Built-in	S: 5.0
	0220:22KW		4: 3-ph 380~480					

Specifications and Features

Nominal motor power kW	0.4~75kW
Input Voltage	380~480V (-15% ~ +10%)
Input Frequency	50~60Hz (+/- 5%)
IP rating	IP20 (IP66 optional)
Designed operating temperature	-10 to +50°C
Keypad display type	LED as standard 0.4-22KW*, LCD backlit 30-75KW
Keypad remote mounting	Optional
Side by side mounting	Yes (2mm up to 22KW)
Dual rating for Fans and Pumps	Full dual rated 5.5-75KW. Semi dual rated 0.4-4KW
Overload ratings	HD 150% x 1 minute. ND 120% x 1 minute
EMC conformity	To EN61800-3, 2 nd Environment / Cat C3 (Class A)
Harmonic reducing DC reactor	Optional 0.4-22KW. Standard 30-75KW
DC injection braking	Yes
Integrated brake chopper	Standard 0.4~22KW, Optional 30~75KW
Motor control method	V/F or SV
NPN/PNP logic selectable	Yes
Anti-tamper parameter lock	Yes
PID control with Sleep/Wake function	Yes
Flying start	Yes
Loss of load (broken belt) detection	Yes
Service due indication	Yes
Safe Torque Off (STO)	Yes. Meets EN13849-1; PLd. Meets EN61508 SIL2. (EN60204-1, Stop Category 0)
Modbus RTU	Yes (Standard)
Communication options	Profibus-DP, Ethernet-IP, CANopen, Modbus TCP, (others in development)

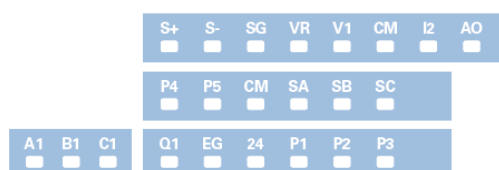
*Optional remote mounting LCD keypad/Copy module can be used with all models 0.4-22KW

Ratings, Dimensions and Weights

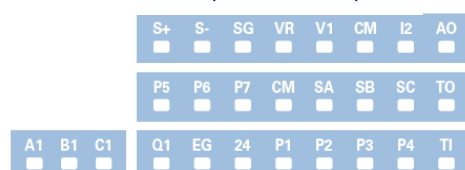
Part Number	Nominal KW	Max. Continuous Current (A) (HD)	Max. Continuous Current (A) (ND)	Dimensions in mm (w x h x d)	Mass (Kg)
LSLV0004S100~4#OFN#	0.4	1.3	2.0	68 x 180 x 130	1.2
LSLV0008S100~4#OFN#	0.75	2.5	3.1		
LSLV0015S100~4#OFN#	1.5	4	5.1	100 x 180 x 140	1.8
LSLV0022S100~4#OFN#	2.2	5.5	6.9		
LSLV0037S100~4#OFN#	3.7	8	10	140 x 180 x 140	2.2
LSLV0040S100~4#OFN#	4.0	9	10		
LSLV0055S100~4#OFN#	5.5	12	16	160 x 232 x 140	3.4
LSLV0075S100~4#OFN#	7.5	16	23		
LSLV0110S100~4#OFN#	11.0	24	30	180 x 290 x 163	4.8
LSLV0150S100~4#OFN#	15.0	30	38		
LSLV0185S100~4#OFN#	18.5	39	44	220 x 350 x 187	7.5
LSLV0220S100~4#OFN#	22.0	45	58		
LSLV0300S100~4#OF##	30.0	61	75	275 x 450 x 284	26
LSLV0370S100~4#OF##	37.0	75	91	325 x 510 x 284	35
LSLV0450S100~4#OF##	45.0	91	107		
LSLV0550S100~4#OF##	55.0	110	142	325 x 550 x 309	43
LSLV0750S100~4#OF##	75.0	152	169		

Control board I/O

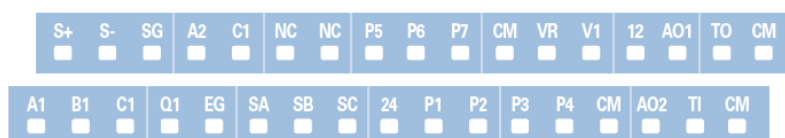
Standard I/O (0.4~22KW)



Extended I/O (0.4~22KW)



Standard I/O (30~75KW)



	Standard I/O (0.4~22KW)	Standard I/O (30~75KW)	Extended I/O (0.4~22KW)
Number of terminals	23	34	27
Terminal pitch	5mm	5mm	3.5mm
Programmable relay	A1, B1, C1	A1, B1, C1	A1, B1, C1
24V DC output (150mA)	24	24	24
Pot. Supply (+12V)	VR	VR	VR
Analogue input (0~ +12V)	V1	V1	V1
Analogue input (0~20mA)	I2	I2	I2
Analogue O/P (V/mA)	AO	AO1	AO
Analogue voltage O/P	-	AO2	-
RS485 (signal/ground)	S+, S- / SG	S+, S- / SG	S+, S- / SG
I/O common (not comms)	CM (2 inputs)	CM (4 inputs)	CM (2 inputs)
Programmable digital O/P	Q1, EG	Q1, EG	Q1, EG
Programmable digital I/P	P1~P5 (5 inputs)	P1~P7 (7 inputs)	P1~P7 (7 inputs)
Pulse train I/P (0~32kHz)	-	T1	T1
Pulse train O/P (0~32kHz)	-	TO	TO
Safe Torque Off inputs	SA, SB, SC	SA, SB, SC	SA, SB, SC