



LS ELECTRIC

S100

**High Performance Standard
Variable Frequency Drive
3-phase 400V, 0.4 ~ 22KW**

Part Number

LV **0055** **S100** - **4** **E** **X** **F** **N** **S**

	▲	▲	▲	▲	▲	▲	▲	▲	▲
LS Low Voltage Series	Motor Rating	Series Name	Input Voltage	Keypad	Enclosure	EMC Filter	DC Reactor	I/O mm	
	0004:0.4KW		4: 3-ph 380~480	E: LED	X: IP66	F: Built-in	N : None	S: 5mm	
	0040:4KW								
	0185:18.5KW								

Specifications

Nominal motor power kW	0.4~22kW
Input Voltage	380~480V (-15% ~ +10%)
Input Frequency	50~60Hz (+/- 5%)
IP rating	IP66
Designed operating temperature	-10 to +40°C
Keypad display type	7-Segment LED
Keypad remote mounting	Optional
Power ON/OFF switch	Yes (Rotary type, fascia mounted)
Dual rating for Fans and Pumps	No
Overload ratings	150% x 1 minute.
EMC conformity	To EN61800-3, 2 nd Environment / Cat C3 (Class A)
Harmonic reducing DC reactor	Optional
DC injection braking	Yes
Integrated brake chopper	Standard 0.4~22KW,
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)

Current ratings and Dimensions

Part Number	Nominal KW	Max. Continuous Current (A)	Dimensions in mm (w x h x d)	Mass (Kg)
LSLV0004S100~4EXFNS	0.4	1.3	180 x 256.6 x 188.2	3.7
LSLV0008S100~4EXFNS	0.75	2.5		
LSLV0015S100~4EXFNS	1.5	4	220 x 258.8 x 215	5.6
LSLV0022S100~4EXFNS	2.2	5.5		
LSLV0040S100~4EXFNS	4.0	9		
LSLV0055S100~4EXFNS	5.5	12	250 x 328 x 241.2	8.9
LSLV0075S100~4EXFNS	7.5	16		
LSLV0110S100~4EXFNS	11.0	24	260 x 399.6 x 259.6	9.8
LSLV0150S100~4EXFNS	15.0	30		
LSLV0185S100~4EXFNS	18.5	39		
LSLV0220S100~4EXFNS	22.0	45	300 x 460 x 264	12.4

Standard I/O (0.4~22KW)



Control board I/O

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