



LS Drive Comparison Table

Series Name			M100		G100
			Standard I/O	Advanced I/O	
Voltage & 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]
Control Mode	V/F		○		○
	Slip Compensation		○		○
	Sensorless Vector		○		○
	Sensored Vector		-		-
Overload Capacity *CT; Constant Torque *VT; Variable Torque *HD; Heavy Duty *ND; Normal Duty			Rated current 150%/1min		CT(HD): Rated current 150%/1min VT(ND): Rated current 120%/1min
Input Terminal	Multifunction		3 points(P1~P3)	5 points(P1~P5)	5 points(P1~P5)
	Analog(Voltage)		1 point(0~10V)	1 point(0~10V)	1 point(-10~10V)
	Analog(Current)		-	1 point(4~20mA)	1 point(0~20mA)
	Pulse		-	-	-
Output Terminal	Relay		1 point(A/B/C)	2 points(A/B/C, A/C)	2 points(A/B/C, A/C)
	Open Collector		1 point	-	-
	Analog		1 point(0~10V)	1 point(0~10V)	1 point(0~10V)
Dynamic Braking Unit			Built-in: 1.5~2.2kW		Built-in
EMC Filter			Built-in (C2)		Built-in: 3Ø 400V 0.4~22kW (C3)
DC Reactor			-		Option: 11~22kW
Communications (*: Under Development)	Industry Ethernet	EtherNet IP/Modbus TCP(1Port)	-	-	-
		EtherNet IP/Modbus TCP(2Port)	-	-	○
		PROFINET	-	-	-
		Modbus TCP(1Port)	-	-	-
		CC-Link IE	-	-	-
		RAPIDnet	-	-	-
	FieldBus	RAPIDnet+	-	-	○
		DeviceNet	-	-	-
		Profibus-DP	-	-	○
		CANopen	-	-	○
		CC-Link	-	-	-
		Modbus RTU	○(Comm. Type built-in)	-	○(Built-in)
	Motion	Fnet, Rnet	-	-	-
		LS INV 485	○(Comm. Type built-in)	-	○(Built-in)
		EtherCAT	-	-	-
		BACnet/IP	-	-	-
BAS (Building Automation)	BACnet/MSTP	-	-	-	
	Lonworks	-	-	-	
	MetaSys N2	-	-	-	
Other Options			Remote cable(1/2/3/5m), Remote keypad		Remote cable(1/2/3/5m), Remote keypad, Conduit
Certification			KC, CE, UL, cUL		KC, CE, UL, cUL
Enclosure Type			IP20		IP20 UL type 1(Conduit option)



S100			H100	iS7	iV5
Standard I/O	Multiple I/O	30~75kW I/O			
1Ø 200~240V 0.4~2.2kW [CT] 3Ø 200~240V 0.4~15kW [CT] 3Ø 380~480V 0.4~75kW [CT]			3Ø 200~240V 0.75~18.5kW 3Ø 380~480V 0.75~90kW 3Ø 380~500V 110~500kW	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
○			○	○	-
○			○	○	-
○			-	○	○
-			-	○	○
CT(HD): Rated current 150%/1min VT(ND): Rated current 120%/1min			VT(ND) - 0.75~90kW: 120%/1min - 110~500kW: 110%/1min	CT(HD): Rated current 150%/1min VT(ND): Rated current 110%/1min	Rated current 150%/1min
5 points(P1~P5)	7 points(P1~P7)	7 points(P1~P7)	7 points(P1~P7)	8 points(P1~P8)	7 points(P1~P7), 4 points(FX,RX,BX,RST)
1 point(-10~10V)	1 point(-10~10V)	1 point(-10~10V)	1 point(-10~10V)	1 point(-10~10V)	3 points(-10V~10V, 0~20mA, NTC)
1 point(4~20mA)	1 point(4~20mA)	1 point(4~20mA)	1 point(0~20mA)	1 point(0~20mA)	
-	1 point(0~32kHz)	1 point(0~32kHz)	1 point(0~32kHz)	-	4 points(Encoder signal)
1 point(A/B/C)	1 point(A/B/C)	2 v(A/B/C, A/C)	5 points(A/B/C, A/C, A/C, A/C, A/C)	2 points(A/B/C, A/C)	3 points(A/B/C, A/C, A/C)
1 point	1 point	1 point	1 point	1 point	3 points(Encoder signal, Multifunction)
1 point(0~10V or 0~20mA)	1 point(0~10V or 0~20mA)	2 points(0~10V or 0~20mA)	2 points(0~10V or 0~20mA)	2 points(0~10V, 0~20mA)	2 points(-10V~10V)
Built-in: 0.4~22kW Option: 30~75kW			Built-in: 0.75~30kW Option: 37~500kW	Built-in: 0.75~22W Option: 30~375kW	Built-in: 2.2~22kW Option: 30~800kW
Built-In option: 1Ø 200V 0.4~2.2kW (C2) Built-In option: 3Ø 400V 0.4~4.0kW (C3) Built-in: 3Ø 400V 5.5~75kW (C3)			Built-in: 3Ø 400V 0.75~500kW (C3)	Built-in: 3Ø 200/400V 0.75~7.5kW (C2) 3Ø 200/400V 11~22kW (C3)	-
Built-in: 3Ø 400V 30~75kW			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
○			-	○	-
-			○*	○	-
○			-	○	-
-			-	-	-
-			-	○	-
-			-	○	-
-			○*	○	-
-			-	○	○
○(Excluding IP66 7.5kW or less)			-	○	○
○			-	○	-
-			-	○	○
○(Built-in)			○(Built-in)	○(Built-in)	○
-			-	○	-
○(Built-in)			○(Built-in)	○(Built-in)	○(Built-in)
○			-	-	-
-			○*	-	-
-			○(Built-in)	-	-
-			○(Built-in)	○	-
-			○(Built-in)	-	-
Extension I/O, Remote cabel(1/2/3/5m), Remote keypad, Flange, Conduit			Extension I/O, Remote cabel(2/3m), Flange, Conduit, Disconnect switch	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)
KC, CE, UL, cUL, Safety			KC, CE, UL, cUL, [Marin] ABS, BV, CCS, DNV/GL, KR, LR, NK, RINA, RS	KC, CE, UL, cUL, Safety, C-Tick [Marin] ABS, BV, DNV, KR	KC, CE, UL, cUL
0.4~75kW: IP20, UL Type 1(Conduit option) 0.4~22kW: IP66(Indoor use only)			0.75~185kW: IP20 220~500kW: IP00 0.75~500kW: UL Type 1 (Conduit option)	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 I2)	IP00

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	Series	Option Name	
M100	M100 remote keypad	iV5	RS-485	
	Remote cable (1m, 2m, 3m, 5m)		Modbus RTU	
G100	2 Port Ethernet/IP (Modbus TCP)		DeviceNet	
	Profibus-DP		Profibus-DP	
	CANopen		CC-Link	
	G100 remote keypad *		Synchronization	
	Remote cable (1m, 2m, 3m, 5m)		EL I/O	
S100	Modbus TCP		SIN / COS + Endat	
	PROFINet		Extension I/O	
	EtherCAT		24V Encoder	
	EtherNet/IP		Common	Parameter Copy Unit
	Profibus-DP			Smart Copier
	CANopen			
	Extension I/O			
	S100 LCD keypad			
	S100 remote keypad (LED)			
	Remote cable (1m, 2m, 3m, 5m)			
	H100	Lonworks		
		H100 remote keypad		
	iS7	Remote cable (1m, 2m, 3m, 5m)		
EtherNet IP/Modbus TCP(1Port)				
EtherNet IP/Modbus TCP(2Port)				
PROFINET				
CC-Link IE				
RAPIDnet				
RAPIDnet+ (2port) (Ethernet IP, Modbus TCP, RAPIDnet)				
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)				

* G100/M100 remote keypads are compatible.