L7SA Drive

Item		Type Name	L7SA001 □	L7SA002 □	L7SA004 □	L7SA008 □	L7SA010 □	L7SA020 □	L7SA035 □	L7SA050 □	L7SA075B	L7SA150B
Input Power	Main Power Supply		3 Phase AC200 ~ 230[V][-15 ~ +10[%]], 50 ~ 60[Hz]									
	Control Power Supply		Single Phase AC200 ~ 230[V][-15 ~ +10[%]], 50 ~ 60[Hz]									
Rated Current[A]			1.4	1.7	3.0	5.2	6.75	13.5	16.7	32	39.4	76
Peak Current[A]			4.2	5.1	9.0	15.6	20.25	40.5	50.1	96	98.5	190
Encoder Type			Quad. Type Incremental Line Driver 2,000~10,000[P/R] Serial Type 18Bit(100WC M8 only), 19bit, 20bit(DD motor only)									
Control Performance	Speed Control	Speed Control Range	Maximum 1: 5000									
		Frequency Response	Maximum 1 [kHz] or above (When using 19bit Serial Encoder									
		Speed Command	DC -10 [V]~+10 [V] (Reverse rotation in case of negative voltage)									
		Accel/Decel Time	Straight or S-curve acceleration/deceleration (0-10,000 [ms], possible to be set by one [ms] unit)									
		Speed Variation Ratio	±0.01 [%] or lower (when load changes between 0 and 100%] ±0.1[%] or lower (temperature 25 ±10℃]									
	Position Control	Input Frequency	1[Mpps], Line Driver / 200[kpps], Open Collector									
		Input Pulse Type	Symbol + Pulse Series, CW+CCW, A/B Phase									
		Electric Gear Ratio	Four digital gear ratios can be set, selected and tuned.									
	Torque Control	Torque Command	DC-10~+10 [V] (Reverse direction torque in case of negative voltage)									
		Speed Limit	DC 0~10 [V], internal speed command within ±1[%]									
		Repetition accuracy	Within ±1[%]									
Input/Output Signal	Analog Input	Input Range	DC -10 ~ 10[V]									
		Resolution	12[bit]									
	Analog Output	Output Range	DC -10 ~ 10[V]									
		Resolution	12[bit]									
	Digital Input		Total 10 Input Channels(assignment available) SVON, SPD1, SPD2, SPD3, ALMRST, DIR, CCWLIM, CWLIM, EMG, STOP, EGEAR1, EGEAR2, PCON, GAIN2, P_CLR, T_LMT, MODE, ABS_RQ, ZCLAMP Above 19 functions can be used selectively for assignment Signal can be set as positive logic or negative logic									
	Digital Output		Total 5 Channels(assignment available), 3 Channels(set as alarm code) ALARM, READY, ZSPD, BRAKE, INPOS, TLMT, VLMT, INSPD, WARN Above 9 outputs can be used selectively for assignment Signal can be set as positive logic or negative logic									
Communication	RS-422		Accessible to PC software and the RS422 server									
	USB		Status monitoring, JOG operation, parameter upload/download are available with PC Software									
Encoder			Serial BiSS encoder and quadrature encoder supported									
Encoder Output Type			Random pre-scale output through FPGA (maximum 6.4 Mpps)									
Built-in functions	Dynamic Braking		Standard built-in (activated when the servo alarm goes off or when the servo is off)									
	Regenerative Braking		Default built-in(excluding 15kW), external installation possible									
	Display		Seven segments (5 DIGIT)									
	Setting Function		Loader (SET, MODE, UP, and [DOWN] keys)									
	Additional Function		Auto gain tuning, phase Z detection, manual JOG operation, program JOG operation, automatic analog input calibration									
	Protective Function		Overcurrent, overload, overvoltage, insufficient voltage, main power input problem, control power input problem, overspeed, motor cable, overheat(power module overheat, abnormal drive operation's temp), encoder problem, over-regenerative, sensor problem, communication problem									
Operation Environment	Operating Temperature / Storage Temperature		0 ~ 50[℃] / -20 ~ 70[℃]									
	Operating Humidity / Storage Humidity		Below 80[%]RH / Below 90[%]RH(avoid dew-condensation)									
	Environment		Indoor, Avoid corrosive, inflammable gas or liquid, and electrically conductive dust.									

* L7SA075 and L7SA150 do not support Incremental type