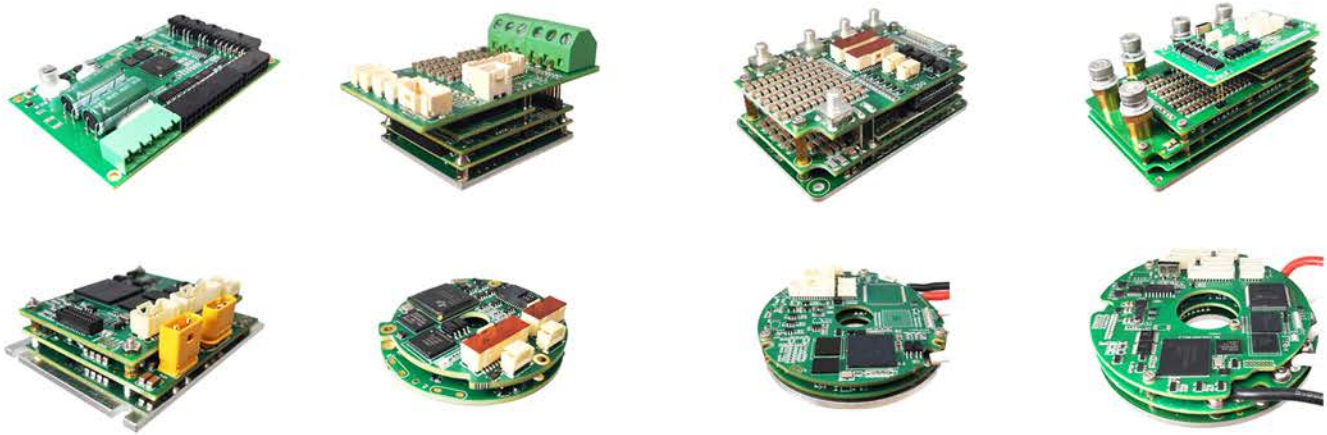


www.servostar.ru

MOTION CONTROL

DC SERVO DRIVE





— We are the leader in cutting-edge servo drive technology!

The company breaks through the shackles of the industry with disruptive innovation. The independently developed miniaturized high-power DC servo driver achieves a power density that is 300% higher than traditional products, a volume that is reduced by 40%, and an output torque that reaches the world's top level.

The core patented algorithm achieves nano-level precision control, and its military-grade reliability has been verified in extreme environments from -40°C to 85°C . It has been successfully installed in batch applications of humanoid robots and mechanical dogs, and is also used in satellite attitude control modules and high-precision missile guidance systems.

The original magnetothermal coupling technology overcomes the problem of micro heat dissipation, and the products have been purchased in bulk by the world's top robotics companies and semiconductor equipment giants. It has become the hidden champion of servo drives in the fields of high-end intelligent manufacturing and defense technology, redefining a new era of precision motion control!

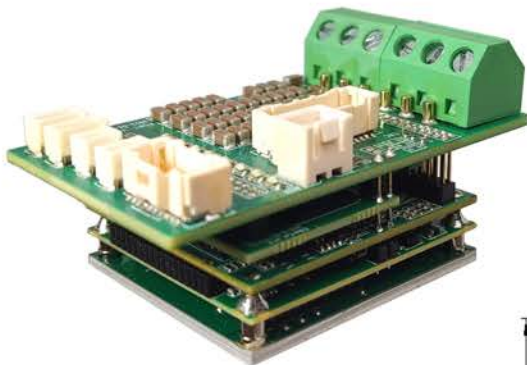


Our programmable intelligent servo drive is a universal, high-performance, DC-powered, compact fully digital servo drive. It is mainly used for position, speed, and torque control of linear (DDL), torque (DDR), voice coil, brushed, and brushless servo motors. It can operate in three modes: stand-alone, external control, or distributed network control, and supports absolute encoders, incremental encoders, Hall, analog sine/cosine encoders (1.0Vp-p), and resolvers.

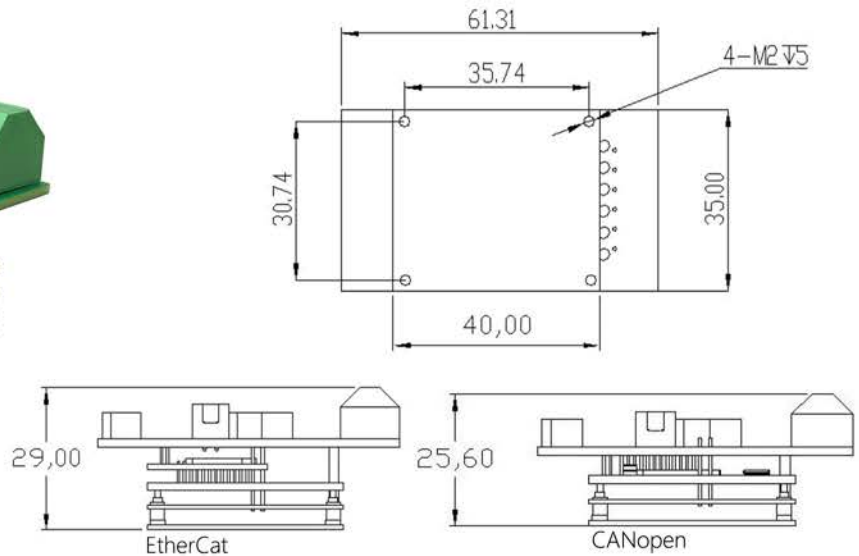
- Control mode: position, speed, torque;
- Sampling frequency (time) current loop: 10KHz; speed/position loop: 10KHz;
- Bandwidth: current loop is generally 10kHz, which varies with parameter adjustment and load inductance;
- Movement mode: electronic gear, electronic cam, proportional linkage, point to point;
- Programmable protection: position error, overcurrent, overvoltage or undervoltage, I²t, output short circuit overload and other multi-directional protection functions;
- Drive motor type: three-phase stepper motor, brushless motor, brushed motor, linear motor, voice coil motor, etc.;
- Position feedback: absolute encoder, incremental encoder, Hall, analog sine/cosine encoder (1.0Vp-p), resolver, etc.;
- Pulse response frequency up to 2MHz, with digital filtering function;
- RS232 serial interface, baud rate up to 115KB;
- CAN2.0 local bus, compatible with CANopen DS-402, baud rate up to 1MHz;
- Power supply voltage: 11-95 VDC; 11A, 15A, 40A/200VDC
- Compliant with CE: EN IEC 55014-1:2021 EN IEC 55014-2:2021 standards

Position Control	Command Control Method			Servo enable, external reset, forward/reverse limit, motor stop, high-speed analog acquisition control, PWM synchronous signal input, high-speed pulse input
	Input Signal	Pulse Command	Input Pulse Pattern	Contains three command forms: "direction + pulse", "A, B phase orthogonal pulse", and "CW/CCW pulse"
			Signal Format	Differential input, open collector
			Maximum Pulse Frequency	Differential input (maximum 2Mpps), open collector (maximum 500Kpps)
	Analog Command	Voltage Range	Input voltage range ±10V	
		Input Impedance	Differential input impedance 5KΩ	
Speed Control	Command Control Method			PMW, ±10V analog, function generator, software programming
	Input Signal	PWM	Polarity	PWM=0-100%. Polarity=1/0
			No polarity	PMW=50%+/-50%
			Frequency Range	Min1kHz, Max100kHz
			Minimum Pulse Width	220ns
	Analog Command	Voltage Range	Input voltage range±10V	
		Input Impedance	Differential input impedance 5KΩ	
	Current Control	Command Control Method		
Input Signal		PWM	Polarity	PWM=0-100%. Polarity=1/0
			No polarity	PMW=50%+/-50%
			Frequency Range	Min1kHz, Max100kHz
			Minimum Pulse Width	220ns
Analog Command		Voltage Range	Input voltage range±10V	
		Input Impedance	Differential input impedance 5KΩ	
I/O Signals	Digital Input IN	Number Of Ports		6
		Signal Format		NPN(Active low)
		Configurable Functions		Servo enable, external reset, forward/reverse limit, motor stop, high-speed analog acquisition control, PWM synchronous signal input, high-speed pulse input etc.
	Digital Output OUT	Number Of Ports		2
		Signal Format		NPN (Active low), maximum current of 800mADC, maximum voltage 30VDC
		Configurable Functions		Fault signal, brake control, program control

SEA 1A-80A driver



Weight: 51g



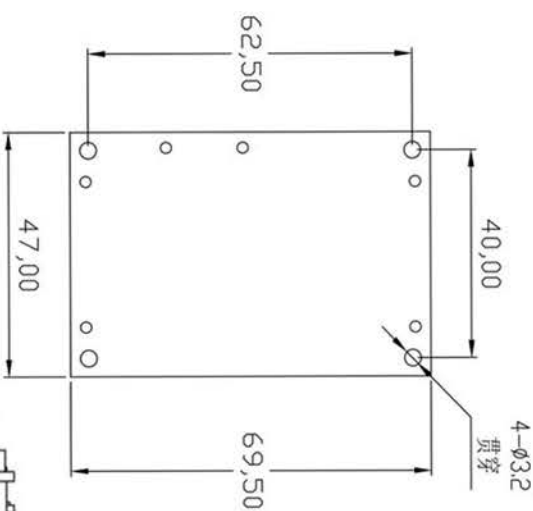
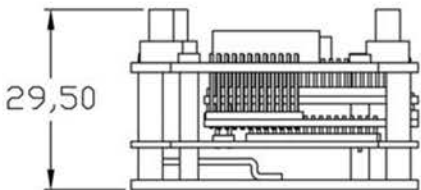
SEA	50	/	100	E	0	0	S	L	-	C
SEA drive series	Current (A): 1/3/6/10/15/25/50/70/80		Maximum withstand voltage 80V/100V	E: EtherCAT C: CANopen						Blank: Standard (default) C: Customized C0: Without interface board C1: Dual power supply
				0: Interface A: Absolute / Incremental / Hall Interface B: Incremental/analog 1: Interface A: Absolute / Incremental / Hall Interface B: Resolver						Blank: Working temperature 0 to 85°C (default) L: Working temperature -45°C to 85°C
					0: IO-24V 1: IO-5V		S: STO-24V S1: STO-5V			Blank: without STO (default)

		1/100	3/100	6/100	10/100	15/100	25/100	50/100	70/100	80/80
Minimum supply voltage	VDC	10								
Rated supply voltage	VDC	85								65
Maximum supply voltage	VDC	95								75
Maximum continuous power output	W	80	235	470	800	1125	2000	4000	5600	5000
Efficiency (rated power)	%	95								
Maximum output voltage	V	Up to 96% of DC link voltage								
Rated DC current	A	1	3	6	10	15	25	50	70	80
Effective continuous current(ic)	A	0.7	2.1	4.2	7.1	10	17.7	35.3	49.5	56.5
Current peak(2*ic)	A	1.4	4.2	8.4	14.2	20	35.4	—		

SEA 140A driver



Weight:104g



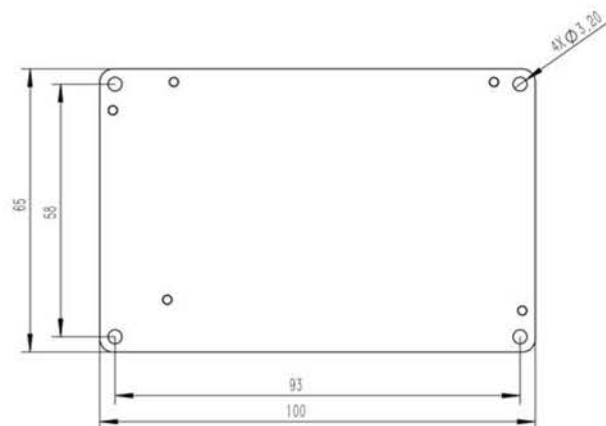
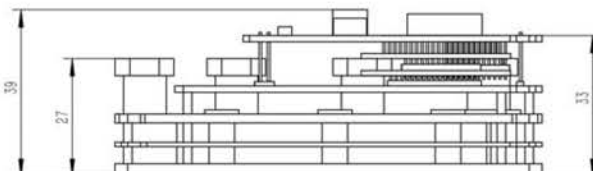
SEA	140	/	100	E	0	0	S	L	-	C
SEA drive series	Current t (A): 140A		Maximum withstand voltage 100V	E: EtherCAT C: CANopen						Blank: Standard (default) C: Customized C0: Without interface board C1: Dual power supply
				0: Interface A: Absolute / Incremental / Hall Interface B: Incremental/analog 1: Interface A: Absolute / Incremental / Hall Interface B: Resolver						Blank: Working temperature 0 to 85℃ (default) L: Working temperature -45℃ to 85℃
					0: IO-24V 1: IO-5V		S: STO-24V S1: STO-5V			Blank: without STO (default)

		140/100
Minimum supply voltage	VDC	11
Rated supply voltage	VDC	85
Maximum supply voltage	VDC	95
Maximum continuous power output	KW	11
Efficiency (rated power)	%	95
Maximum output voltage	V	Up to 96% of DC link voltage
Rated DC current	A	140
Effective continuous current(ic)	A	99
Current peak(2*ic)	A	—

SEA 210A-100V / 100A-200V driver



Weight:264g



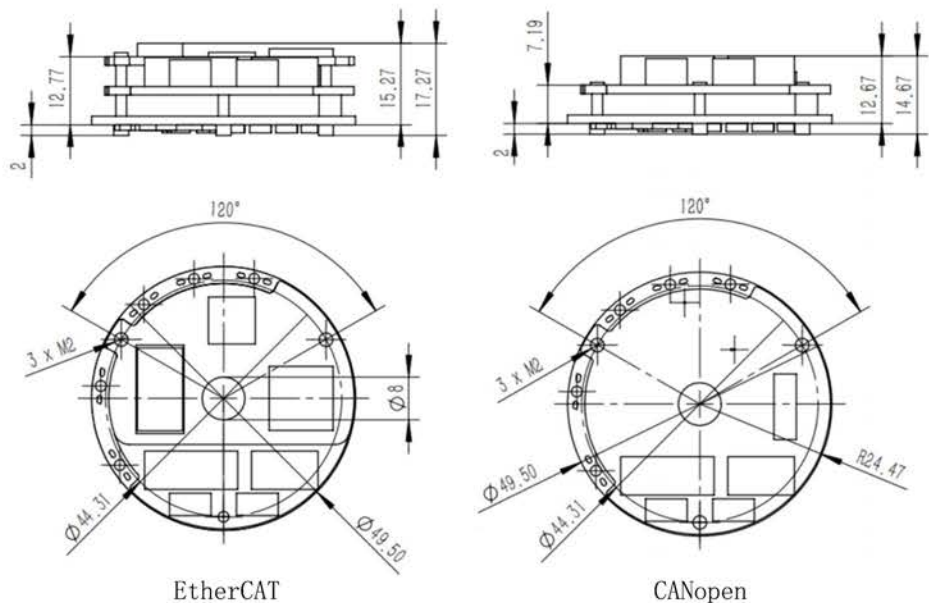
SEA	210	/	100	E	0	0	S	L	-	C
SEA drive series	Current (A): 210A/100A		Maximum withstand voltage 100V/200V	E: EtherCAT C: CANopen				Blank: Standard (default) C: Customized C0: Without interface board C1: Dual power supply		
0: Interface A: Absolute / Incremental / Hall Interface B: Incremental/analog 1: Interface A: Absolute / Incremental / Hall Interface B: Resolver							Blank: Working temperature 0 to 85℃ (default) L: Working temperature -45℃ to 85℃			
0: IO-24V 1: IO-5V						Blank: without STO (default) S: STO-24V S1: STO-5V				

		210/100	100/200
Minimum supply voltage	VDC	11	20
Rated supply voltage	VDC	85	170
Maximum supply voltage	VDC	95	195
Maximum continuous power output	KW	17	16.5
Efficiency (rated power)	%	95	95
Maximum output voltage	V	Up to 96% of DC link voltage	
Rated DC current	A	210	100
Effective continuous current(ic)	A	150	70
Current peak(2*ic)	A	—	—

SEA Ring C49 series driver



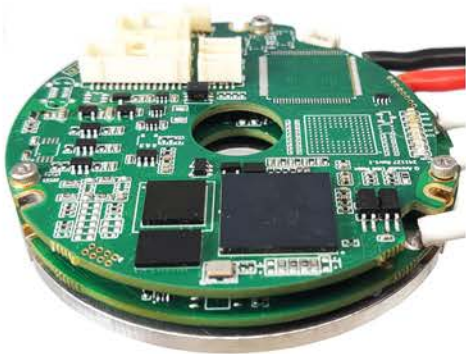
Weight:22g



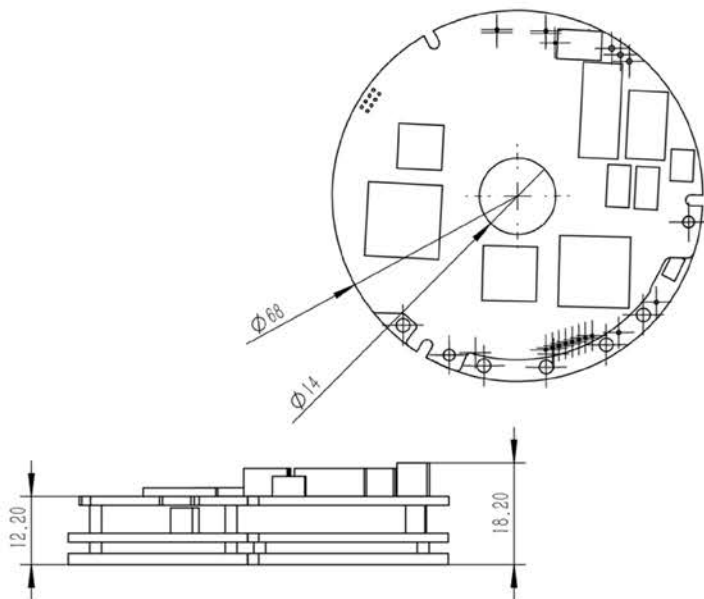
C49-SEA	10	/	100	E	0	0	S	L	-	C
SEA驱动器C系列	Current (A):		Maximum withstand voltage							Blank: Standard (default) C: Customized C0: Without interface board C1: Dual power supply
	1/3/6/10/15/25		80V/100V							Blank: Working temperature 0 to 85℃ (default) L: Working temperature -45℃ to 85℃
				E: EtherCAT C: CANopen						Blank: without STO (default)
				0: Interface A: Absolute / Incremental / Hall Interface B: Incremental/analog 1: Interface A: Absolute / Incremental / Hall Interface B: Resolver						
					0: IO-24V 1: IO-5V		S: STO-24V S1: STO-5V			

		1/100	3/100	6/100	10/100	15/100	25/100
Minimum supply voltage	VDC	11					
Rated supply voltage	VDC	85					
Maximum supply voltage	VDC	95					
Maximum continuous power output	W	80	235	470	800	1125	2000
Efficiency (rated power)	%	95					
Maximum output voltage	V	Up to 96% of DC link voltage					
Rated DC current	A	1	3	6	10	15	25
Effective continuous current(ic)	A	0.7	2.1	4.2	7.1	10	17.7
Current peak(2*ic)	A	1.4	4.2	8.4	14.2	20	35.4

SEA Ring C68 series driver



Weight:79g



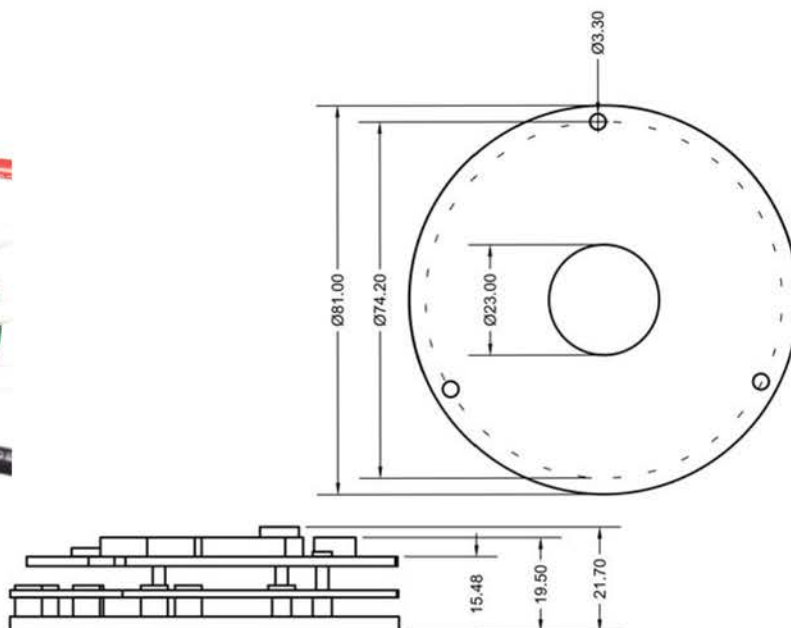
C68-SEA	50	/	100	E	0	0	S	L	-	C
SEA驱动器C系列	Current (A):		Maximum withstand voltage							Blank: Standard (default) C: Customized C0: Without interface board C1: Dual power supply
	1/3/6/10/15/25/50/70/80		80V/100V	E: EtherCAT C: CANopen						Blank: Working temperature 0 to 85℃ (default) L: Working temperature -45℃ to 85℃
				0: Interface A: Absolute / Incremental / Hall Interface B: Incremental/analog 1: Interface A: Absolute / Incremental / Hall Interface B: Resolver						Blank: without STO (default)
					0: IO-24V 1: IO-5V		S: STO-24V S1: STO-5V			

		1/100	3/100	6/100	10/100	15/100	25/100	50/100	70/100	80/80
Minimum supply voltage	VDC	11								
Rated supply voltage	VDC	85								65
Maximum supply voltage	VDC	95								75
Maximum continuous power output	W	80	235	470	800	1125	2000	4000	5600	5000
Efficiency (rated power)	%	95								
Maximum output voltage	V	Up to 96% of DC link voltage								
Rated DC current	A	1	3	6	10	15	25	50	70	80
Effective continuous current(ic)	A	0.7	2.1	4.2	7.1	10	17.7	35.3	49.5	56.5
Current peak(2*ic)	A	1.4	4.2	8.4	14.2	20	35.4	—		

SEA Ring C81 series driver



Weight:118g



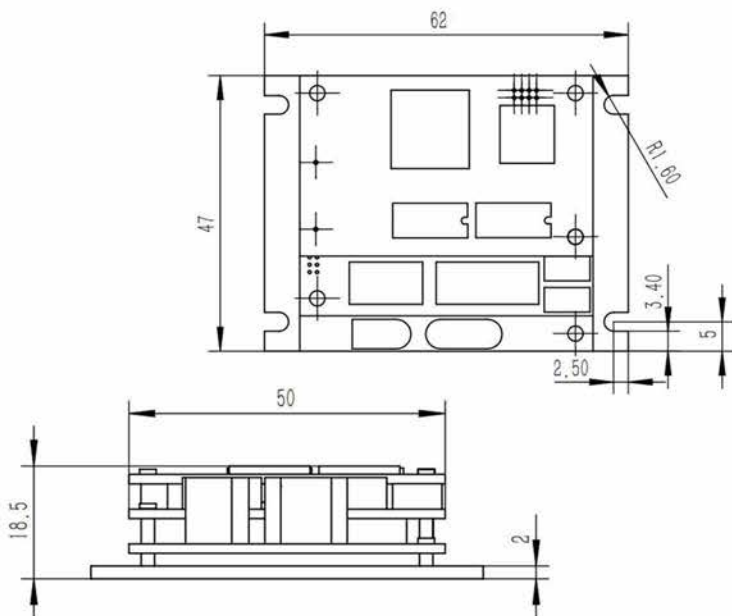
C81-SEA	70	/	100	E	0	0	S	L	-	C
SEA驱动器C系列	Current (A): 70/80/140		Maximum withstand voltage 80V/100V	E: EtherCAT C: CANopen						Blank: Standard (default) C: Customized C0: Without interface board C1: Dual power supply
				0: Interface A: Absolute / Incremental / Hall Interface B: Incremental/analog 1: Interface A: Absolute / Incremental / Hall Interface B: Resolver						Blank: Working temperature 0 to 85°C (default) L: Working temperature -45°C to 85°C
					0: IO-24V 1: IO-5V		S: STO-24V S1: STO-5V			Blank: without STO (default)

		70/100	80/80	140/100
Minimum supply voltage	VDC	12		
Rated supply voltage	VDC	85	65	85
Maximum supply voltage	VDC	95	75	95
Maximum continuous power output	W	5600	5000	11000
Efficiency (rated power)	%	95		
Maximum output voltage	V	Up to 96% of DC link voltage		
Rated DC current	A	70	80	140
Effective continuous current(ic)	A	49.5	56.5	99
Current peak(2*ic)	A	—	—	—

SEA Economy D series driver



Weight:49g



D-SEA	25	/	100	E	0	0	S	L	-	C
SEA drive D series	Current (A):		Maximum withstand voltage							Blank: Standard (default) C1: Dual power supply
	1/3/6/10/15/25									
	100V									
				E: EtherCAT C: CANopen						
				0: Interface A: Absolute / Incremental / Hall Interface B: Incremental/analog 1: Interface A: Absolute / Incremental / Hall Interface B: Resolver						Blank: Working temperature 0 to 85℃ (default) L: Working temperature -45℃ to 85℃
					0: IO-24V 1: IO-5V		S: STO-24V S1: STO-5V			Blank: without STO (default)

		1/100	3/100	6/100	10/100	15/100	25/100
Minimum supply voltage	VDC	11					
Rated supply voltage	VDC	85					
Maximum supply voltage	VDC	95					
Maximum continuous power output	W	80	235	470	800	1125	2000
Efficiency (rated power)	%	95					
Maximum output voltage	V	Up to 96% of DC link voltage					
Rated DC current	A	1	3	6	10	15	25
Effective continuous current(ic)	A	0.7	2.1	4.2	7.1	10	17.7
Current peak(2*ic)	A	1.4	4.2	8.4	14.2	20	35.4

The background is a solid blue color. Overlaid on this are several sets of thin, white, curved lines that create a sense of motion and depth. These lines are most prominent in the upper right and lower right areas, where they form a series of overlapping, wavy patterns that resemble a stylized 'S' or a series of connected curves. The lines are more densely packed in some areas, creating a textured effect, while in other areas they are more sparse.

Manufacturer of precision motion control core components
www.servostar.ru