Date：March 18, 2025

Saving Energy Diligently & Acting Efficiently

Nanjing Oulu Electric

OULU VFD CATALOG

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ABOUT US

Nanjing Oulu Electric Co., Ltd. was established in September 2007 with a registered capital of 71.12 million yuan. It is a national high-tech enterprise focusing on the research and development, production, sales and service of industrial automation and new energy power. The company established a wholly-owned subsidiary "Chnchi Electric" in Liuhe Development Zone in 2014. Oulu Electric landed on the New OTC Market on May 19, 2017. The stock code is 871415.

Oulu Electric has an experienced and innovative technology R&D team, based on industrial automation control technology that has owned intellectual property rights for many years. We provide customers with high-quality products and solutions, and form a series of supporting services such as installation, commissioning, operation and maintenance, technology upgrades, and remote data mining analysis.

We are not only based on the marketing of mid-to-high-end brands in the domestic market, but will also gradually form product sales in foreign markets. " Saving Energy Diligently & Acting Efficiently", we will focus on electric transmission energy saving and new energy business, create value for customers and employees Create opportunities, take responsibility for society, develop together with society, customers and employees, and create a better life together.



Nanjing Oulu Electric

Our Production Line

We have strict control over production management, process technology, equipment maintenance and quality control. We also have advanced manufacturing equipment, testing instruments, professional technical talents, integrated production and processing processes. We strictly follow standard operating standards to ensure the stability and accuracy of product quality.





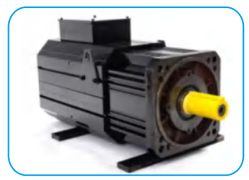

Our Products

Industrial automation products: Based on independently developed VFD, servo motor and drive system, permanent magnet synchronous motor and drive system and other products, to provide customers with complete automation drive control, electrical transmission control solutions.

New energy Business products: Based on small and medium-sized wind turbine, off-grid energy storage inverter, energy storage reverse control integrated machine, energy storage lithium battery, photovoltaic controller, wind and solar complementary control inverter integrated control system, base station integrated control system, to provide grid-connected power generation and off-grid power generation two modes of operation of small power generation system .








Our Certificate

VFD Application

- Air conditioning load
- Crusher load
- Large furnace calcined load
- Air-compressor load
- Rolling mill load
- Windlass load
- Steel converter load
- Roller load
- Pump load
- Wire machine load
- Convey machine load
- Elevatorfor cargotransfer load
- Machine for transfer material load
- Stacked-reclaimed machine load
- Fans load
- Mix materlal machine load
- Textile machine load
- Special power supply load
- Glass, ceramics, pharmaceutical, beverage, food, packaging and other production line loads
- Paper machine load
- Laundry equipment load
- Musical fountain load
- Grinding machine load
- Cigarette machine load
- Load shedding and noise reduction loads
- Dyeing machine load
- Plastic injection machine load
- Sew agetreatment and environment equipment load
- Offshore oil platform machine load
- Oil submersible pumpl load
- Polyester chip machine load

EV510A series high performance VFD

About the product

The EV510A series high performance VFD is the upgraded version of the EV510 series. It is smaller in size, more compact in structure, better in carrying capacity, and more stable in performance than the EV510 series. At the same time, it supports the display of the external panel of the network cable.

Naming rules

EV510A - 0037G/0055P - T4

- Product series
- Power code
  - 0037G:3.7kW
  - 0055G:5.5kW
  - G:General type
  - P:Pump or fans type
- Voltage level
  - S2:Single phase 220V
  - T2:Three phase 220V
  - T4:Three phase 380V
  - T5:Three phase 480V
  - T6:Three phase 690V

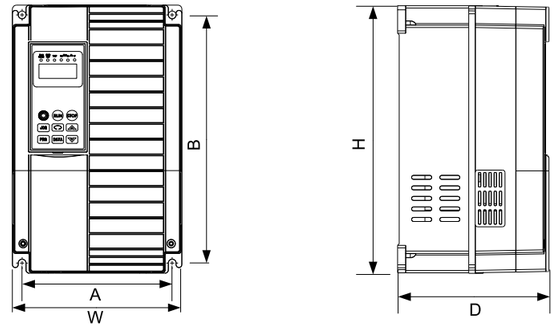
Rated specification

Model	Power capacity (kVA)	Input current (A)	Output current (A)	Match motor (kW)
Single phase:220V,50/60Hz				
EV510A-0004G-S2	1. 0	5. 4	2. 3	0. 4
EV510A-0007G-S2	1. 5	8. 2	4. 0	0. 75
EV510A-0015G-S2	3. 0	14. 0	7. 0	1. 5
EV510A-0022G-S2	4. 0	23. 0	9. 6	2. 2
Three phase:220V,50/60Hz				
EV510A-0037G-T2	8. 9	14. 6	17. 0	3. 7
EV510A-0055G-T2	17. 0	26. 0	25. 0	5. 5
EV510A-0075G-T2	21. 0	35. 0	32. 0	7. 5
Three phase:380V,50/60Hz				
EV510A-0007G-T4	1. 5	3. 4	2. 1	0. 75
EV510A-0015G-T4	3. 0	5. 0	3. 8	1. 5
EV510A-0022G-T4	4. 0	5. 8	5. 1	2. 2
EV510A-0037G/0055P-T4	5. 9	10. 5	9. 0	3. 7
EV510A-0055G/0075P-T4	8. 9	14. 6	13. 0	5. 5
EV510A-0075G/0110P-T4	11. 0	20. 5	17. 0	7. 5
EV510A-0110G/0150P-T4	17. 0	26. 0	25. 0	11
EV510A-0150G/0185P-T4	21. 0	35. 0	32. 0	15
EV510A-0185G/0220P-T4	24. 0	38. 5	37. 0	18. 5
EV510A-0220G/0300P-T4	30. 0	46. 5	45. 0	22
EV510A-0300G/0370P-T4	40. 0	62. 0	60. 0	30
EV510A-0370G/0450P-T4	57. 0	76. 0	75. 0	37
EV510A-0450G/0550P-T4	69. 0	92. 0	91. 0	45
EV510A-0550G/0750P-T4	85. 0	113. 0	112. 0	55
EV510A-0750G/0900P-T4	114. 0	157. 0	150. 0	75
EV510A-0900G/1100P-T4	134. 0	180. 0	176. 0	90
EV510A-1100G/1320P-T4	160. 0	214. 0	210. 0	110
EV510A-1320G/1600P-T4	192. 0	256. 0	253. 0	132
EV510A-1600G/1850P-T4	231. 0	307. 0	304. 0	160
EV510A-1850G/2000P-T4	240. 0	330. 0	340. 0	185
EV510A-2000G/2200P-T4	250. 0	385. 0	377. 0	200
EV510A-2200G/2500P-T4	280. 0	430. 0	426. 0	220
EV510A-2500G/2800P-T4	355. 0	468. 0	465. 0	250
EV510A-2800G/3150P-T4	396. 0	525. 0	520. 0	280
EV510A-3150G/3500P-T4	445. 0	590. 0	585. 0	315
EV510A-3500G-T4	500. 0	665. 0	650. 0	350
EV510A-4000G-T4	565. 0	785. 0	725. 0	400
EV510A-4500G-T4	630. 0	800. 0	820. 0	450
EV510A-5000G-T4	700. 0	890. 0	870. 0	500
EV510A-5600G-T4	783. 0	980. 0	950. 0	560
EV510A-6300G-T4	882. 0	1180. 0	1100. 0	630
EV510A-7100G-T4	-	-	1250. 0	-
EV510A-8000G-T4	-	-	1400. 0	-
EV510A-9000G-T4	-	-	1580. 0	-
EV510A-10000G-T4	-	-	1750. 0	-
EV510A-12000G-T4	-	-	2100. 0	-
EV510A-14000G-T4	-	-	2320. 0	-

Technique Feature

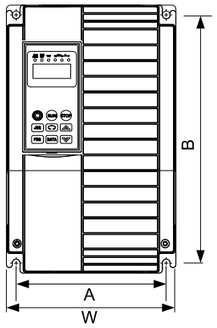
Item		Specificationtem	
Basic function	Highest frequency	Vector control: 0~ 500Hz; V/F control: 0~ 500Hz	
	Carrier frequency	0.8kHz~12kHz The carrier frequency can be automatically adjusted according to the temperature characteristics.	
	Input frequency resolution	Digital setting:0.01Hz Analog setting: maximum frequency×0.025%	
	Control mode	Open-loop vector(SVC) Closed-loop vector(FVC) V/F control	
	Start torque	G Type:0.5Hz/150%(SVC);0Hz/180%(FVC) P Type:0.5Hz/100%	
	Speed range	1:100 (SVC)	1:1000 (FVC)
	Speed control accuracy	±0.5% (SVC)	±0.02% (FVC)
	Torque control accuracy	±5% (FVC)	
	Overload capacity	G Type:150% Rated current 60sec；180% Rated current 3sec P Type:120% Rated current 60sec；150% Rated current 3sec	
	Torque boost	Automatic torque increase;Manual torque increase0.1%~30.0%	
	V/F curve	Three types: linear type; multi-point type; the nth power of V/F curve (1.2 power, 1.4 power, 1.6 power, 1.8 power, 2 power)	
	V/F Separation	Linear or S curve of ACC/DEC ways. Four types of ACC/DEC Time, ACC/DEC time range is 0.0~6500.0s	
	ACC/DEC curve	Two types: full separation, half of separation	
	DC brake	DC brake frequeney:0.00Hz~max frequency Brake time: 0.0s~36.0s, Brake action current: 0.0%~ 100.0%	
	JOG control	JOG frequency range: 0,00Hz~50.00Hz. JOG speed-up/down time: 0.0s~6500.0s	
	Simple PLC multi-stage speed running	Via bul-in PLC or control terminal can realze max 16 stage speed running	
	Built-in PID	Can realize process control close-oop system conveniently	
	Auto adjust voltage(AVR)	When grid voltage changes, can keep output voltage steadily automatically	
	Overcurrent and overvoltage speed control	During running,limit current and voltage automatically,protect from tripping off frequently for overvoltage and overcurrent	
	Quick current-limit function	Reduce overcurrent error on max extent, protect inverter normal running	
	Torque limitation and control	"Digger" feature, inverter could limit torque automatically, prevent overcurrent tripping off; close-oop vector can realize torque control	
Personalization function	Outstanding perform	Using high-perform current vector control	
	Instantaneous stop not stop	During instant power-off, by motor feedbacking energy, inverter compensates voltage-drop to keep running for short time	
	Timing control	Timing control function: setting time range: 0.0min-6500.0min	
	Multi- motor switch	2 sets of motor parameter, can realize 2 motors switching control	
	Multi-threading bus support	Support 2 fieldbus: RS485, CANlink	
	Multi-encoder support	Support differential, open collector, rotary transformer	
	Command source	Control panel, control terminal, communication; can be switched by several modes	
	Frequency source	10 types of frequency sources: digital setting, analog voltage setting, analog current setting, pulse setting, communication setting, can be switched by several methods	
	Auxiliary frequency sources	10 types of auxiliary frequency source, can realize auxiliary frequency trimming, frequency combining flexibly	
Running display and keypad	Input terminal	Standard: 7 digital input terminals, one of them support max 100KHz HS pulse input（apolegamy） 2 analog input terminals 2 supports 0~10V voltage input or 0~20mA current input	
	Output terminal	Standard: 1 high-speed pulse output terminal (optional open collector), support 0-100kHz pulse（apolegamy） 1 digit output terminal 2 relay output terminals 2 analog output terminals, both support 0~20mA current output or voltage output	
	LED display	Can display parameter	
	Press-key locking and function selection	Realize press-key partial or full lacking, define part press-key function range, to avoid wrong operation	
	Protection function	Power-on motor short circuit test, output phase-loss protection, over-current protection, over-voltage protection, under-voltage protection, overheat protection, overload protection etc	
	Optional parts	Differential PG card, open collector PG card, rotary transformer PG card	
Environment	Aplication site	Indoor, without direct sunlight, no powder, corrosive gas, combustion air, oil dust, water steam, water drop or salt etc	
	Altiude level	Less than 1000m	
	Environment temperature	-10°C~+40°C (During 40°C-50°C, please reduce capacity to use)	
	Humidity	<95%RH, no water drop condensed	
Optional parts	Two Panel LED display	LED display; using RJ45 port to connect	

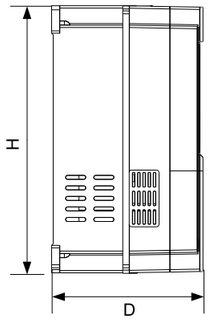
Outline size



Model	Installation Size (mm)		Outline Size (mm)			Installation hole	Weight (kg)≈
	A	B	W	H	D		
EV510A-0004G-S2	101	171	112	180	118	Φ4. 6	1. 3
EV510A-0007G-S2							
EV510A-0015G-S2							
EV510A-0022G-S2							
EV510A-0037G-T2	135	245	150	260	153	Φ6	3. 9
EV510A-0055G-T2							
EV510A-0075G-T2	186	306	210	330. 5	188	Φ9. 5	7. 5
EV510A-0110G-T2							
EV510A-0150G-T2	238	396	260	420	196	Φ8. 5	12. 5
EV510A-0007G-T4	101	171	112	180	118	Φ4. 6	1. 3
EV510A-0015G-T4							
EV510A-0022G-T4							
EV510A-0037G/0055P-T4	101	171	112	180	138	Φ4. 6	2. 1
EV510A-0055G/0075P-T4							
EV510A-0075G/0110P-T4	135	245	150	260	153	Φ6	3. 9
EV510A-0110G/0150P-T4							
EV510A-0150G/0185P-T4							
EV510A-0185G/0220P-T4	186	306	210	330. 5	188	Φ9. 5	7. 5
EV510A-0220G/0300P-T4							
EV510A-0300G/0370P-T4							
EV510A-0370G/0450P-T4	238	396	260	420	196	Φ8. 5	12. 5
EV510A-0450G/0550P-T4							
EV510A-0550G/0750P-T4	272	455	304	470	240	Φ9	22. 9
EV510A-0750G/0900P-T4	200	614	278	630	310	Φ9	39
EV510A-0900G/1100P-T4							
EV510A-1100G/1320P-T4							
EV510A-1320G/1600P-T4	300	650	454	670	310	Φ9	67
EV510A-1600G/1850P-T4							
EV510A-1850G/2000P-T4 Hanging	400	810	520	835	382	Φ13	107
EV510A-2000G/2200P-T4 Hanging							
EV510A-2200G/2500P-T4 Hanging							
EV510A-2500G/2800P-T4 Hanging							
EV510A-1850G/2000P-T4 Cabinet	–	–	520	1183	382	–	–
EV510A-2000G/2200P-T4 Cabinet							
EV510A-2200G/2500P-T4 Cabinet							
EV510A-2500G/2800P-T4 Cabinet							

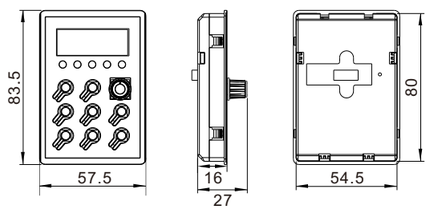
Outline size



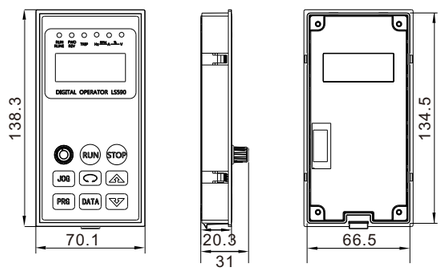


	Model	Installation Size (mm)		Outline Size (mm)			Installation hole	Weight (kg)≈
		A	B	W	H	D		
Hanging	EV510A-2800G/3150P-T4	460 (230+230 3 holes in total)	895	720	920	382	φ13	155
	EV510A-3150G/3500P-T4							
	EV510A-3500G-T4							
	EV510A-4000G-T4							
	EV510A-4500G-T4							
Cabinet	EV510A-2800G/3150P-T4	–	–	720	1320	382	–	225
	EV510A-3150G/3500P-T4							
	EV510A-3500G-T4							
	EV510A-4000G-T4							
	EV510A-4500G-T4							
	EV510A-5000G-T4	600 (300+300 3 holes in total)	1048	980	1500	502	φ13	–
	EV510A-5600G-T4							
	EV510A-6300G-T4							
	EV510A-7100G-T4	–	–	1200	1953	502	–	460
	EV510A-8000G-T4							
	EV510A-9000G-T4	–	–	1335	1903	552	–	–
	EV510A-10000G-T4							
	EV510A-12000G-T4							
	EV510A-14000G-T4							

Keypad outline



Small operation panel



Large operation panel

EV210 Series high performance miniature inverter (General asynchronous)

About the product

EV210 series high-performance current vector inverter is mainly used to control and adjust the speed and torque of three-phase AC asynchronous motor, support a variety of PG cards, etc., powerful. It can be used in textile, paper making, wire drawing, machine tools, packaging, food, wind turbine, water pump and various automatic production equipments.

Naming rules

EV210 - 0007G - T4

- EV210: Product series
- 0007G: Power code — 0007G:0.75kW, G:General type
- T4: Voltage level — S2:single phase 220V, T4:Three phase 380V

Technique Feature

Item			Specificationtem
Input voltage			Three-phase AC380V ±10%; Single-phase AC220V ±10%
Input frequency			50/60Hz
Output voltage			0 ~ Input voltage
Output frequency			Vector control: 0 ~ 500Hz V/F control: 0 ~ 500Hz
Overload capability			150% rated current 60s; 180% rated current 3s
Control mode			V/F control, speed sensorless vector control (SVC)
Control characteristics	Frequency setting resolution	Analog end input	Maximum frequency x 0.025%
		Digital setting	0.01Hz
	V/F control	V/F curve	Three Methods: Straight Line; Multipoint type; N power type V/F curve (1.2 power, 1.4 power, 1.6 power, 1.8 power, 2 power)
		V/F separation	2 Methods: Full SeparationHalf Separation
		Torque Lift	Manual setting: 0.0 to 30.0% of rated output Automatic lifting: According to the output current and combined with the motor parameters automatically determine the lifting torque
		Automatic current limiting and voltage limiting	Whether in the process of acceleration, deceleration or stable operation, can automatically detect the stator current and voltage of the motor, according to the unique algorithm to suppress it within the allowed range, to minimize the possibility of system failure trip
	Noninductive vector control	Voltage-frequency characteristics	Automatically adjust the output voltage-frequency ratio according to the motor parameters and unique algorithm
		Torque characteristics	Starting torque: 150% rated torque at 3.0Hz (V/F control) 150% rated torque at 0.25Hz (vector control without speed sensor) Steady state accuracy of running speed: ≤± 0.2% rated synchronous speed Speed fluctuation: ≤± 0.5% rated synchronous speed Torque response: ≤20ms (vector control without speed sensor)
		Motor parameters self-determination	Without any limitation, the parameters can be automatically detected under the static and dynamic conditions of the motor to obtain the best control effect
		Current and voltage suppression	The whole current closed-loop control, completely avoid current shock, with perfect overcurrent and overcurrent suppression function
	Undervoltage suppression in operation		Especially for users with low grid voltage and frequent fluctuations of grid voltage, the system can maintain the longest possible operating time according to the unique algorithm and residual energy distribution strategy, even in the voltage range below the allowable voltage
Typical function	Multi-stage speed with swing frequency operation		16 sections programmable multi-speed control, a variety of operating modes optional. Swing frequency operation: preset frequency, adjustable center frequency, state memory and recovery after power failure
	PID control RS485 communication		Built-in PID controller (preset frequency), standard configuration RS485 communication function
	Frequency setting	Analog input	Dc voltage 0 ~ 10V, DC current 0 ~ 20mA (upper and lower limit optional)
		Digital input	Operation panel setting, RS485 interface setting, UP/DOWN terminal control, can also be set with analog input in a variety of combinations
	Output signal	Digital output	1 way programmable relay output (TA, TC) with up to 58 meaning choices
		Analog output	1 analog signal output, the output range is between 0 ~ 20mA or 0 ~ 10V flexible setting, can achieve the set frequency, output frequency and other physical quantity output
	Automatic voltage control operation		According to the need can choose dynamic voltage, static voltage, unstable voltage three ways to obtain the most stable operation effect
	Add, decelerate time setting		0.0s ~ 6500.0s can be set continuously, S type, linear mode is optional
	Braking	Energy efficient braking	Energy consumption braking starting voltage, back difference voltage and energy consumption braking rate can be adjusted continuously
		Dc braking	Stop DC braking starting frequency: 0.00 ~ 【P0-10】 Maximum frequency Braking time: 0.0 ~ 100.0s; Braking current: 0% ~ 100% rated current
	Low noise operation		Carrier frequency 0.5KHz ~ 16.0KHz continuous adjustable, minimize motor noise
	Speed tracking speed restart function		It can realize the smooth restart and instantaneous stop restart function of the motor in operation
	Counter		An internal counter for easy system integration
	Running function		Upper and lower frequency setting, frequency jump operation, reverse operation limit, slip frequency compensation, RS485 communication, frequency increase and decrease control, fault self-recovery operation, etc

(Transfer to next page)

Technique Feature

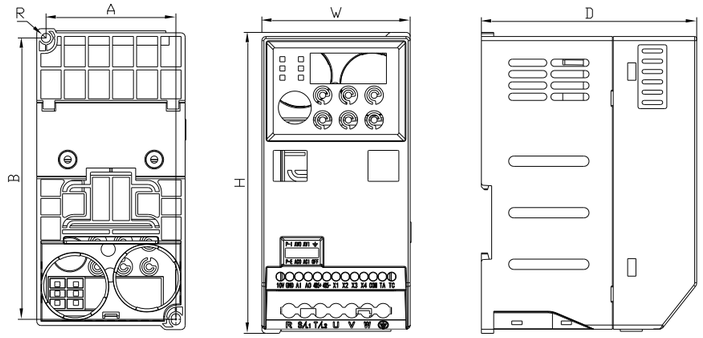
Item		Specificationtem
Operation panel display	Operating status	Output frequency, output current, output voltage, motor speed, set frequency, module temperature, PID setting, feedback amount, analog input/output, etc
	Alarm content	There are three times of fault tripping output frequency, set frequency, output current, output voltage, DC voltage, module temperature, power-on time, running time and other 8 operating parameters record
Environment	Ambient temperature	-10℃ ~ +40℃ (ambient temperature is 40℃ ~ 50℃, please use the reduced rate)
	Ambient humidity	5% to 95% RH, free of condensation
	Surroundings	Indoor (no direct sunlight, no corrosion, flammable gas, no oil mist, dust, etc.)
	Altitude	Derating above 1000 m is used, 10% derating for every 1000 m rise
Structure	Class of protection	IP20
	Cooling method	Air cooled with fan control
Protective features		Over current, over voltage, under voltage, module failure, electronic thermal relay, overheating, short circuit, input and output phase deficiency, motor parameter tuning abnormal, internal memory failure, etc
Installation method		Wall-mounted, cabinet type

Rated specification

Model	Power capacity (kVA)	Input current (A)	Output current (A)	Match motor (kW)
EV210–0004G–S2	1. 0	5. 4	2. 3	0. 4
EV210–0007G–S2	1. 5	8. 2	4. 0	0. 75
EV210–0015G–S2	3. 0	14. 0	7. 0	1. 5
EV210–0022G–S2	4. 0	23. 0	9. 6	2. 2
EV210–0007G–T4	1. 5	3. 4	2. 1	0. 75
EV210–0015G–T4	3. 0	5. 0	3. 8	1. 5
EV210–0022G–T4	4. 0	5. 8	5. 1	2. 2
EV210–0040G–T4	5. 9	10. 5	9. 0	4. 0
EV210–0055G–T4	8. 9	14. 6	13. 0	5. 5
EV210–0075G–T4	11. 0	20. 5	16. 0	7. 5
EV210–0110G–T4	17. 0	26. 0	24. 0	11
EV210–0150G–T4	21. 0	35. 0	32. 0	15

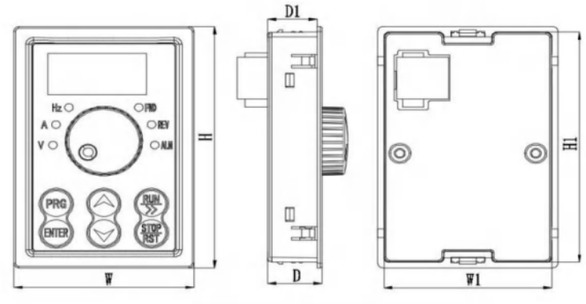
Outline size

■ Chassis size:



Voltage	Model	Power (kW)	Installation Size (mm)		Outline Size (mm)			R(mm)
			A	B	W	H	D	
Single phase 220V	EV210-0004G-S2	0.4	63.0	136.5	72	146	105	2.3
	EV210-0007G-S2	0.75						
	EV210-0015G-S2	1.5						
	EV210-0022G-S2	2.2						
Three phase 380V	EV210-0007G-T4	0.75						
	EV210-0015G-T4	1.5						
	EV210-0022G-T4	2.2						
	EV210-0040G-T4	4.0	78.0	172.5	87	183	127	2.3
	EV210-0055G-T4	5.5						
	EV210-0075G-T4	7.5	106.0	229.0	118	241	154	2.8
	EV210-0110G-T4	11						
	EV210-0150G-T4	15						

■ External keyboard mounting dimensions



Dimensions of keyboard base holes(mm)				Keyboard thickness(mm)	
W	W1	H	H1	D	D1
53	49.4	79	75.4	15.9	14.5

EV510E series synchronous motor driver

About the product

EV510E series synchronous motor driver is a general-purpose high-performance VFD, which is mainly used to control and adjust the speed and torque of three-phase AC synchronous motor. It uses high-performance current vector control technology to realize the control of permanent magnet synchronous motor, supports a variety of PG cards, and has powerful functions. It can be used for driving textile, paper, wire drawing, machine tool, packaging, food and various automatic equipment.

Naming rules

EV510E - 0055G - T4

- EV510E: Product series
- 0055G: Power code — 0055G:5.5kW; G:General type
- T4: Voltage level — S2:single phase 220V; T2:Three phase 220V; T4:Three phase 380V; T5:Three phase 480V; T6:Three phase 690V

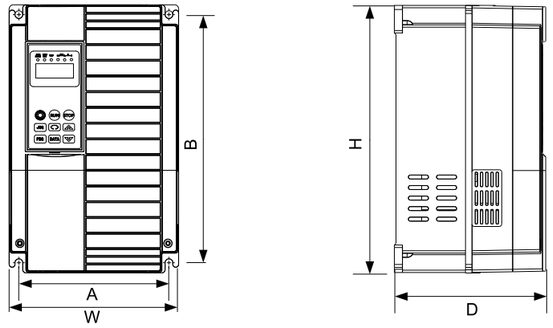
Rated specification

Model	Power capacity (kVA)	Input current (A)	Output current (A)	Match motor (kW)
Single phase:220V,50/60Hz				
EV510E-0004G-S2	1. 0	5. 4	2. 3	0. 4
EV510E-0007G-S2	1. 5	8. 2	4. 0	0. 75
EV510E-0015G-S2	3. 0	14. 0	7. 0	1. 5
EV510E-0022G-S2	4. 0	23. 0	9. 6	2. 2
Three phase:220V,50/60Hz				
EV510E-0037G-T2	8. 9	14. 6	17. 0	3. 7
EV510E-0055G-T2	17. 0	26. 0	25. 0	5. 5
EV510E-0075G-T2	21. 0	35. 0	32. 0	7. 5
Three phase:380V,50/60Hz				
EV510E-0007G-T4	1. 5	3. 4	2. 1	0. 75
EV510E-0015G-T4	3. 0	5. 0	3. 8	1. 5
EV510E-0022G-T4	4. 0	5. 8	5. 1	2. 2
EV510E-0037G-T4	5. 9	10. 5	9. 0	3. 7
EV510E-0055G-T4	8. 9	14. 6	13. 0	5. 5
EV510E-0075G-T4	11. 0	20. 5	17. 0	7. 5
EV510E-0110G-T4	17. 0	26. 0	25. 0	11
EV510E-0150G-T4	21. 0	35. 0	32. 0	15
EV510E-0185G-T4	24. 0	38. 5	37. 0	18. 5
EV510E-0220G-T4	30. 0	46. 5	45. 0	22
EV510E-0300G-T4	40. 0	62. 0	60. 0	30
EV510E-0370G-T4	57. 0	76. 0	75. 0	37
EV510E-0450G-T4	69. 0	92. 0	91. 0	45
EV510E-0550G-T4	85. 0	113. 0	112. 0	55
EV510E-0750G-T4	114. 0	157. 0	150. 0	75
EV510E-0900G-T4	134. 0	180. 0	176. 0	90
EV510E-1100G-T4	160. 0	214. 0	210. 0	110
EV510E-1320G-T4	192. 0	256. 0	253. 0	132
EV510E-1600G-T4	231. 0	307. 0	304. 0	160
EV510E-1850G-T4	240. 0	330. 0	340. 0	185
EV510E-2000G-T4	250. 0	385. 0	377. 0	200
EV510E-2200G-T4	280. 0	430. 0	426. 0	220
EV510E-2500G-T4	355. 0	468. 0	465. 0	250
EV510E-2800G-T4	396. 0	525. 0	520. 0	280
EV510E-3150G-T4	445. 0	590. 0	585. 0	315
EV510E-3500G-T4	500. 0	665. 0	650. 0	350
EV510E-4000G-T4	565. 0	785. 0	725. 0	400
EV510E-5000G-T4	700. 0	890. 0	870. 0	500

Technique Feature

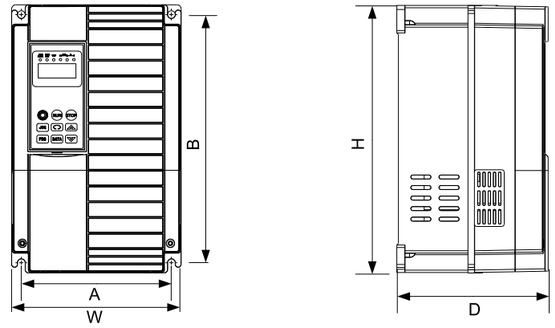
Item		Specificationtem	
Basic function	Highest frequency	Vector control: 0~ 500Hz; V/F control: 0~ 500Hz	
	Carrier frequency	0.8kHz~12kHz The carrier frequency can be automatically adjusted according to the temperature characteristics.	
	Input frequency resolution	Digital setting:0.01Hz Analog setting: maximum frequency×0.025%	
	Control mode	Open-loop vector(SVC) Closed-loop vector(FVC) V/F control	
	Start torque	G Type:0.5Hz/150%(SVC);0Hz/180%(FVC) P Type:0.5Hz/100%	
	Speed range	1:100 (SVC)	1:1000 (FVC)
	Speed control accuracy	±0.5% (SVC)	±0.02% (FVC)
	Torque control accuracy	±5% (FVC)	
	Overload capacity	G Type:150% Rated current 60sec；180% Rated current 3sec	
	Torque boost	Automatic torque increase;Manual torque increase0.1%~30.0%	
	V/F curve	Three types: linear type; multi-point type; the nth power of V/F curve (1.2 power, 1.4 power, 1.6 power, 1.8 power, 2 power)	
	V/F Separation	Linear or S curve of ACC/DEC ways. Four types of ACC/DEC Time, ACC/DEC time range is 0.0~6500.0s	
	ACC/DEC curve	Two types: full separation, half of separation	
	DC brake	DC brake frequeney:0.00Hz~max frequency Brake time: 0.0s~36.0s, Brake action current: 0.0%~ 100.0%	
	JOG control	JOG frequency range: 0,00Hz~50.00Hz. JOG speed-up/down time: 0.0s~6500.0s	
	Simple PLC multi-stage speed running	Via bul-in PLC or control terminal can realze max 16 stage speed running	
	Built-in PID	Can realize process control close-oop system conveniently	
	Auto adjust voltage(AVR)	When grid voltage changes, can keep output voltage steadily automatically	
	Overcurrent and overvoltage speed control	During running,limit current and voltage automatically,protect from tripping off frequently for overvoltage and overcurrent	
	Quick current-limit function	Reduce overcurrent error on max extent, protect inverter normal running	
	Torque limitation and control	"Digger" feature, inverter could limit torque automatically, prevent overcurrent tripping off; close-oop vector can realize torque control	
Personalization function	Outstanding perform	Using high-perform current vector control	
	Instantaneous stop not stop	During instant power-off, by motor feedbacking energy, inverter compensates voltage-drop to keep running for short time	
	Timing control	Timing control function: setting time range: 0.0min-6500.0min	
	Multi- motor switch	2 sets of motor parameter, can realize 2 motors switching control	
	Multi-threading bus support	Support 3 fieldbus: RS485, CAN link,CAN open	
	Multi-encoder support	Support differential, open collector, rotary transformer	
	Command source	Control panel, control terminal, communication; can be switched by several modes	
	Frequency source	10 types of frequency sources: digital setting, analog voltage setting, analog current setting, pulse setting, communication setting, can be switched by several methods	
	Auxiliary frequency sources	10 types of auxiliary frequency source, can realize auxiliary frequency trimming, frequency combining flexibly	
Running display and keypad	Input terminal	Standard: 7 digital input terminal, one of them support max 100KHz HS pulse input 2 analog input terminal 2 supports 0~10V voltage input or 0~20mA current input	
	Output terminal	Standard: 1 high-speed pulse output terminal (optional open collector), support 0-100kHz pulse 1 digit output terminals 2 relay output terminal 2 analog output terminals, both support 0~20mA current output or voltage output	
	LED display	Can display parameter	
	Press-key locking and function selection	Realize press-key partial or full lacking, define part press-key function range, to avoid wrong operation	
	Protection function	Power-on motor short circuit test, output phase-loss protection, over-current protection, over-voltage protection, under-voltage protection, overheat protection, overload protection etc	
	Optional parts	Differential PG card, open collector PG card, rotary transformer PG card	
Environment	Aplication site	Indoor, without direct sunlight, no powder, corrosive gas, combustion air, oil dust, water steam, water drop or salt etc	
	Altiude level	Less than 1000m	
	Environment temperature	-10°C~+40°C (During 40°C-50°C, please reduce capacity to use)	
	Humidity	<95%RH, no water drop condensed	
Optional parts	Two Panel LED display	LED display; using RJ45 port to connect	

Outline size



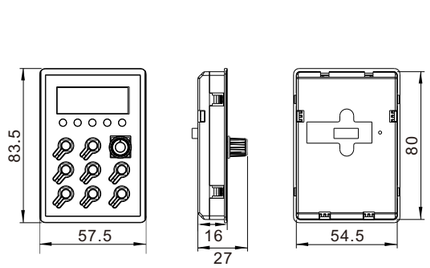
Model	Installation Size (mm)		Outline Size (mm)			Installation hole	Weight (kg)≈
	A	B	W	H	D		
EV510E-0004G-S2	101	171	112	180	118	Φ4. 6	1. 3
EV510E-0007G-S2							
EV510E-0015G-S2							
EV510E-0022G-S2							
EV510E-0037G-T2	135	245	150	260	153	Φ6	3. 9
EV510E-0055G-T2							
EV510E-0075G-T2	186	306	210	330. 5	188	Φ9. 5	7. 5
EV510E-0110G-T2							
EV510E-0150G-T2	238	396	260	420	196	Φ8. 5	12. 5
EV510E-0007G-T4							
EV510E-0015G-T4	101	171	112	180	118	Φ4. 6	1. 3
EV510E-0022G-T4							
EV510E-0037G-T4	101	171	112	180	138	Φ4. 6	2. 1
EV510E-0055G-T4							
EV510E-0075G-T4	135	245	150	260	153	Φ6	3. 9
EV510E-0110G-T4							
EV510E-0150G-T4							
EV510E-0185G-T4	186	306	210	330. 5	188	Φ9. 5	7. 5
EV510E-0220G-T4							
EV510E-0300G-T4							
EV510E-0370G-T4	238	396	260	420	196	Φ8. 5	12. 5
EV510E-0450G-T4							
EV510E-0550G-T4	272	455	304	470	240	Φ9	22. 9
EV510E-0750G-T4	200	614	278	630	310	Φ9	39
EV510E-0900G-T4							
EV510E-1100G-T4							
EV510E-1320G-T4	300	650	454	670	310	φ9	67
EV510E-1600G-T4							
Wall mounting EV510E-1850G-T4	400	810	520	835	382	φ13	107
EV510E-2000G-T4							
EV510E-2200G-T4							
EV510E-2500G-T4							
Flange mounting EV510E-1850G-T4	–	–	520	1183	382	–	–
EV510E-2000G-T4							
EV510E-2200G-T4							
EV510E-2500G-T4							

Outline size

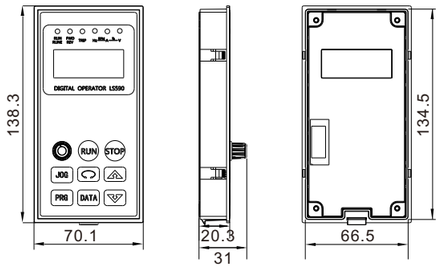


Model	Installation Size (mm)		Outline Size (mm)			Installation hole	Weight (kg)≈
	A	B	W	H	D		
Wall mounting EV510E-2800G-T4	460 (230+230 3 holes in total)	895	720	920	382	φ13	155
EV510E-3150G-T4							
EV510E-3500G-T4							
EV510E-4000G-T4							
EV510E-4500G-T4							
Flange mounting EV510E-2800G-T4	–	–	720	1320	382	–	225
EV510E-3150G-T4							
EV510E-3500G-T4							
EV510E-4000G-T4							
EV510E-4500G-T4							

Keypad outline



Small operation panel



Large operation panel

EV200 series high performance VFD

About the product

About the product Naming rulesEV200 series high-performance VFD is the company's new generation of high quality and high reliability small vfd. Based on the market demand of small power, small volume and simple speed regulation, the single-phase 220VAC and three-phase 380VACsmall vfd are targeted. It can be widely used in small automatic machinery represented by wood working carving, glass edging, food filling, pharmaceutical centrifuge, automatic production line, electronic equipment, logistics equipment, textile, etc.

Naming rules

EV200 - 0007G - T4

- EV200 — Product series
- 0007G — Power code 0007:0.75kW G:General type
- T4 — Voltage level S2:single phase 220V T4:Three phase 380V

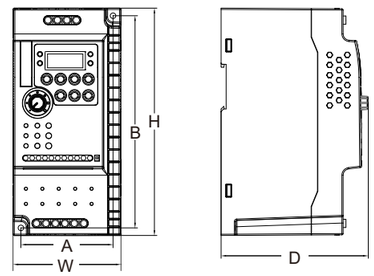
Product features

- New narrow body design, compact structure and smart design. Compared with the old products, the installation size is reduced by 30% and the volume is reduced by 45%, which is more conducive to saving installation space and reducing power distribution costs;
- Independent air duct, straight up and down, efficient heat dissipation;
- 0.5Hz starting torque can reach 150%;
- 0.75-2.2kW without built-in brake unit, and above 3.7kW with brake unit;
- 4 digital input terminals, 1 analog input, 1 relay output;
- The keyboard can be imported from outside, and is compatible with the keyboard interface of the company's 510A and 510H frequency converters

Rated specification

Model	Power capacity (kVA)	Input current (A)	Output current (A)	Match motor (kW)
EV200-0004G-S2	1. 0	5. 4	2. 3	0. 4
EV200-0007G-S2	1. 5	8. 2	4. 0	0. 75
EV200-0015G-S2	3. 0	14. 0	7. 0	1. 5
EV200-0022G-S2	4. 0	23. 0	9. 6	2. 2
EV200-0037G-S2	7. 5	32. 0	17. 0	3. 7
EV200-0007G-T4	1. 5	3. 4	2. 1	0. 75
EV200-0015G-T4	3. 0	5. 0	3. 8	1. 5
EV200-0022G-T4	4. 0	5. 8	5. 1	2. 2
EV200-0040G-T4	5. 9	10. 5	9. 0	4. 0
EV200-0055G-T4	8. 9	14. 6	13. 0	5. 5
EV200-0075G-T4	11. 0	20. 5	17. 0	7. 5

Outline size

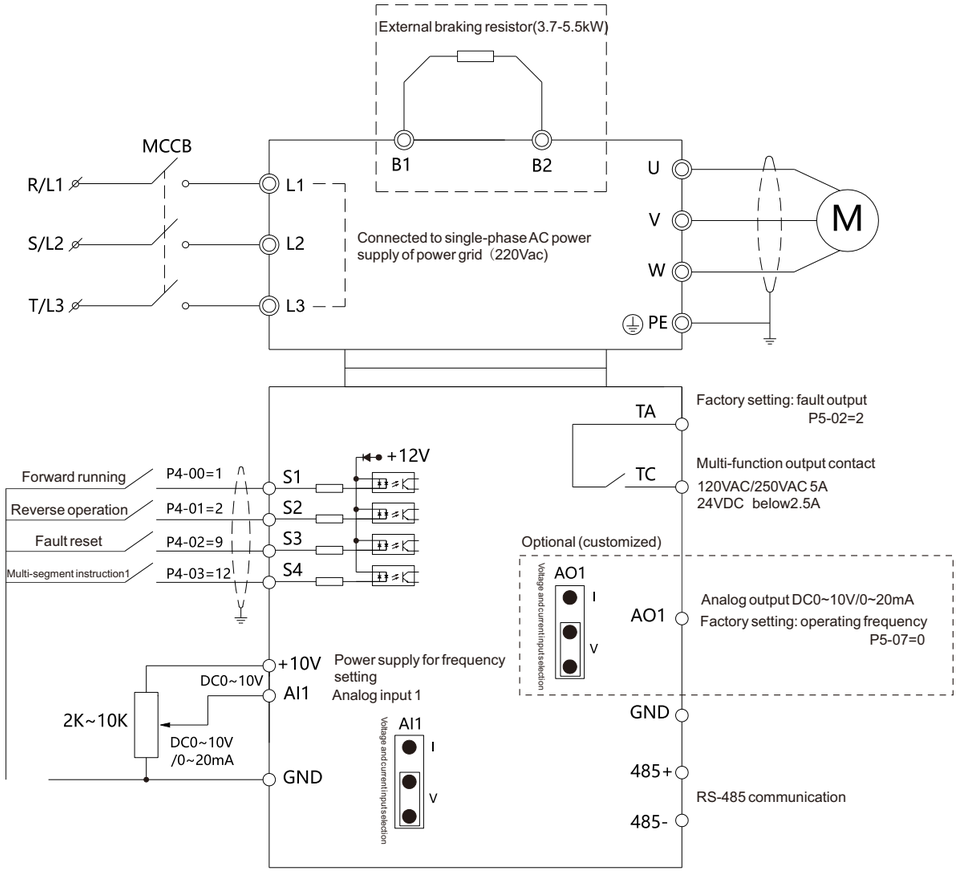


Voltage	Model	Power (kW)	Installation Size (mm)		Outline Size (mm)			Installation hole
			A	B	W	H	D	
Single phase 220V	EV200-0004G-S2	0. 4	60	129	73	143	112. 6	Φ4. 4
	EV200-0007G-S2	0. 75						
	EV200-0015G-S2	1. 5						
	EV200-0022G-S2	2. 2						
	EV200-0037G-S2	3. 7	73	168	85. 5	180	116. 4	Φ4. 4
Three phase 380V	EV200-0007G-T4	0. 75	60	129	73	143	112. 6	Φ4. 4
	EV200-0015G-T4	1. 5						
	EV200-0022G-T4	2. 2						
	EV200-0040G-T4	4. 0	73	168	85. 5	180	116. 4	Φ4. 4
	EV200-0055G-T4	5. 5						
	EV200-0075G-T4	7. 5						

Technique Feature

Item		Specificationtem
Basic function	Highest frequency	Vector control: 0~ 500Hz; V/F control: 0~ 500Hz
	Carrier frequency	0.8kHz~12kHz The carrier frequency can be automatically adjusted according to the temperature characteristics.
	Input frequency resolution	Digital setting:0.01Hz Analog setting: maximum frequency×0.025%
	Control mode	Open-loop vector(SVC) V/F control
	Start torque	G Type:0.5Hz/150%(SVC);0Hz/180%(FVC)
	Speed range	1:100 (SVC)
	Speed control accuracy	±0.5% (SVC)
	Torque control accuracy	±5% (FVC)
	Overload capacity	G Type:150% Rated current 60sec；180% Rated current 3sec
	Torque boost	Automatic torque increase;Manual torque increase0.1%~30.0%
	V/F curve	Three types: linear type; multi-point type; the nth power of V/F curve (1.2 power, 1.4 power, 1.6 power, 1.8 power)
	V/F Separation	Linear or S curve of ACC/DEC ways. Four types of ACC/DEC Time, ACC/DEC time range is 0.0~6500.0s
	ACC/DEC curve	Two types: full separation, half of separation
	DC brake	DC brake frequeney:0.00Hz~max frequency Brake time: 0.0s~36.0s, Brake action current: 0.0%~ 100.0%
	JOG control	JOG frequency range: 0,00Hz~50.00Hz. JOG speed-up/down time: 0.0s~6500.0s
	Simple PLC multi-stage speed running	Via bul-in PLC or control terminal can realze max 16 stage speed running
	Built-in PID	Can realize process control close-oop system conveniently
	Auto adjust voltage(AVR)	When grid voltage changes, can keep output voltage steadily automatically
	Overcurrent and overvoltage speed control	During running,limit current and voltage automatically,protect from tripping off frequently for overvoltage and overcurrent
	Quick current-limit function	Reduce overcurrent error on max extent, protect inverter normal running
	Torque limitation and control	"Digger" feature, inverter could limit torque automatically, prevent overcurrent tripping off; close-oop vector can realize torque control
Personalization function	Outstanding perform	Using high-perform current vector control
	Instantaneous stop not stop	During instant power-off, by motor feedbacking energy, inverter compensates voltage-drop to keep running for short time
	Timing control	Timing control function: setting time range: 0.0min-6500.0min
	Command source	Control panel, control terminal, communication; can be switched by several modes
	Frequency source	10 types of frequency sources: digital setting, analog voltage setting, analog current setting, pulse setting, communication setting, can be switched by several methods
	Auxiliary frequency sources	10 types of auxiliary frequency source, can realize auxiliary frequency trimming, frequency combining flexibly
Running display and keypad	Input terminal	Standard: 4 digital input terminal 1 supports 0~10V voltage input or 0~20mA current input
	Output terminal	1 relay output terminal
	LED display	Can display parameter
	Press-key locking and function selection	Realize press-key partial or full lacking, define part press-key function range, to avoid wrong operation
	Protection function	Power-on motor short circuit test, output phase-loss protection, over-current protection, over-voltage protection, under-voltage protection, overheat protection, overload protection etc
	Optional parts	Differential PG card, open collector PG card, rotary transformer PG card
Environment	Aplication site	Indoor, without direct sunlight, no powder, corrosive gas, combustion air, oil dust, water steam, water drop or salt etc
	Altiude level	Less than 1000m
	Environment temperature	-10°C~+40°C (During 40°C-50°C, please reduce capacity to use)
	Humidity	<95%RH, no water drop condensed
Optional parts	LED display	LED display; The keyboard can be imported from outside, and is compatible with the keyboard interface of the company's 510A and 510H frequency converters

Standard wiring diagram



EV510H series high performance VFD

About the product

EV510H series high-performance VFD, with small size, light weight, easy to carry and other characteristics, is a functional enhanced product. It can be used for driving textile, paper making, silk weaving, machine tool packaging, food, fan, water pump and various kinds of automatic production equipments.

Naming rules

EV510H - 0037G/0055P - T4

- EV510H: Product series
- 0037G:3.7kW / 0055P:5. 5kW / G:General type / P:Pump or fans type
- T4: Voltage level — S2:Single phase 220V / T4:Three phase 380V

Rated specification

Model	Power capacity (kVA)	Input current (A)	Output current (A)	Match motor (kW)
Single phase:220V,50/60Hz				
EV510H-0004G-S2	1. 0	5. 4	2. 3	0. 4
EV510H-0007G-S2	1. 5	8. 2	4. 0	0. 75
EV510H-0015G-S2	3. 0	14. 0	7. 0	1. 5
EV510H-0022G-S2	4. 0	23. 0	9. 6	2. 2
Three phase:380V,50/60Hz				
EV510H-0007G-T4	1. 5	3. 4	2. 1	0. 75
EV510H-0015G-T4	3. 0	5. 0	3. 8	1. 5
EV510H-0022G-T4	4. 0	5. 8	5. 1	2. 2
EV510H-0037G/0055P-T4	5. 9	10. 5	9. 0	3. 7
EV510H-0055G/0075P-T4	8. 9	14. 6	13. 0	5. 5

Technique Feature

Item		Specificationtem
Basic function	Highest frequency	Vector control: 0~ 500Hz; V/F control: 0~ 500Hz
	Carrier frequency	0.8kHz~12kHz The carrier frequency can be automatically adjusted according to the temperature characteristics.
	Input frequency resolution	Digital setting:0.01Hz Analog setting: maximum frequency×0.025%
	Control mode	Open-loop vector(SVC) V/F control
	Start torque	G Type:0.5Hz/150%(SVC); P Type:0.5Hz/100%
	Speed range	1:100 (SVC)
	Speed control accuracy	±0.5% (SVC)
	Overload capacity	G Type:150% Rated current 60sec；180% Rated current 3sec P Type:120% Rated current 60sec；150% Rated current 3sec
	Torque boost	Automatic torque increase;Manual torque increase0.1%~30.0%
	V/F curve	Three types: linear type; multi-point type; the nth power of V/F curve (1.2 power, 1.4 power, 1.6 power, 1.8 power, 2 power)
	ACC/DEC curve	Two types: full separation, half of separation
	DC brake	DC brake frequeney:0.00Hz~max frequency Brake time: 0.0s~36.0s, Brake action current: 0.0%~ 100.0%
	JOG control	JOG frequency range: 0,00Hz~50.00Hz. JOG speed-up/down time: 0.0s~6500.0s
	Simple PLC multi-stage speed running	Via bul-in PLC or control terminal can realze max 16 stage speed running
	Built-in PID	Can realize process control close-oop system conveniently
	Auto adjust voltage(AVR)	When grid voltage changes, can keep output voltage steadily automatically
	Overcurrent and overvoltage speed control	During running,limit current and voltage automatically,protect from tripping off frequently for overvoltage and overcurrent
	Quick current-limit function	Reduce overcurrent error on max extent, protect inverter normal running
	Torque limitation and control	″Digger″ feature, inverter could limit torque automatically, prevent overcurrent tripping off; close-oop vector can realize torque control

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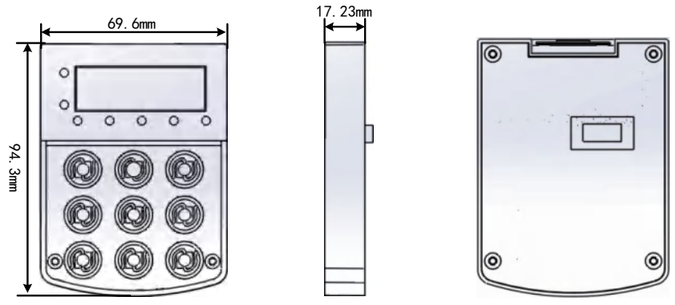
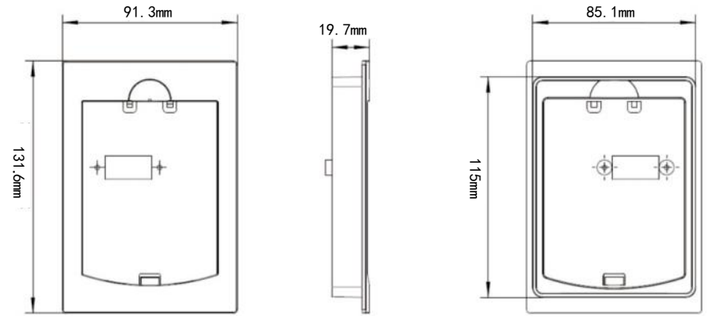
Technique Feature

Item		Specificationtem
Personalization function	Outstanding perform	Using high-perform current vector control
	Instantaneous stop not stop	During instant power-off, by motor feedbacking energy, inverter compensates voltage-drop to keep running for short time
	Timing control	Timing control function: setting time range: 0.0min-6500.0min
	Command source	Control panel, control terminal, communication; can be switched by several modes
	Frequency source/ Auxiliary frequency sources	digital setting, analog voltage setting, analog current setting, pulse setting, communication setting, can be switched by several methods
Running display and keypad	Input terminal	5 digital input terminal, one of them support max 100KHz HS pulse input（apolegamy）, 2 analog input terminal; AI2 supports 0~10V voltage input ;Ai1 support 0~10V voltage input or 0~20mA current input
	Output terminal	1 high-speed pulse output terminal (optional open collector), support 0-100kHz pulse（apolegamy） 1relay output terminal 1 analog output terminal, support 0~20mA current output
	LED display	Can display parameter
	Press-key locking and function selection	Realize press-key partial or full lacking, define part press-key function range, to avoid wrong operation
	Protection function	Power-on motor short circuit test, output phase-loss protection, over-current protection, over-voltage protection, under-voltage protection, overheat protection, overload protection etc
Environment	Aplication site	Indoor, without direct sunlight, no powder, corrosive gas, combustion air, oil dust, water steam, water drop or salt etc
	Altiude level	Less than 1000m,Derating above 1000m, Rated output current decreases by 1% every 100m
	Environment temperature	-10°C~+40°C (During 40°C-50°C, please reduce capacity to use)
	Humidity	<95%RH, no water drop condensed

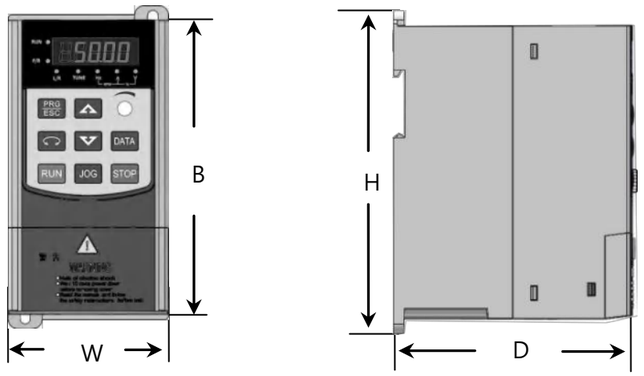
Keypad outline



Panel tray size



Outline size



Model	Outline size (mm)				Installation hole
	B	W	H	D	
EV510H-0004G-S2	155	84	170	127	Φ5. 7
EV510H-0007G-S2					
EV510H-0015G-S2					
EV510H-0022G-S2					
EV510H-0007G-T4					
EV510H-0015G-T4					
EV510H-0022G-T4					
EV510H-0037G/0055P-T4	183	91	193	142	Φ4. 7
EV510H-0055G/0075P-T4					

LS590 series servo driver

About the product

LS590 series servo driver is a servo driver specially developed for driving permanent magnet servo motor (PMSM) to realize high-performance vector control of permanent magnet synchronous motor. It is mainly used in plastic molding, pipe extrusion, shoe making, rubber, metal die casting and other industries.

Naming rules

LS590 – 0150G – T4

- LS590: Product series
- 0150G: Power code 0150G:15kW
- T4: Three phase AC 380V

Rated specification

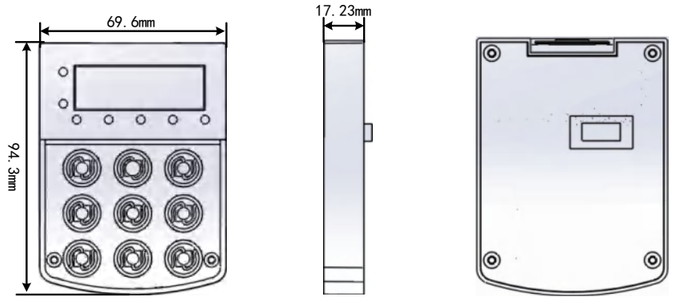
Model LS590-****G-T4		0075G	0110G	0150G	0185G	0220G	0300G	0370G	0450G	0550G	0750G
Rated power(kW)		7. 5	11	15	18. 5	22	30	37	45	55	75
Output current(A)		17	25	32	37	45	60	75	91	112	150
Maximum holding current(A) Continuous 60S		25. 5	37. 5	48. 0	55. 5	67. 5	90. 0	112. 5	136. 5	168. 0	225. 0
Power input	Rated voltage and frequency	three phase 350, 380, 400, 420, 50/60Hz									
	Allowed voltage range	±15%									
	Allowed frequency range	±5%									
Braking resistance (matching)	kW	1	1. 5	1. 5	2. 5	2. 5	3	4	5	6	8
	Ω	⩾65	⩾43	⩾32	⩾22	⩾22	⩾16	⩾16	⩾16	⩾16	⩾12
Resolver sign cable (according to model)		ZF28-****stands for cable length,unit: cm. For example, ZF80-400 means cable length of 4 meters.									
Pressure sensor (necessary)		Can choose a variety of pressure sensors,the measurement range matches parameters A3-03,pressure sensor range,recommended Danforss 060G3557.									
Breaker		50	50	60	75	100	100	150	150	200	300
Contactor		30	30	50	50	50	80	100	100	160	250

Technique Feature

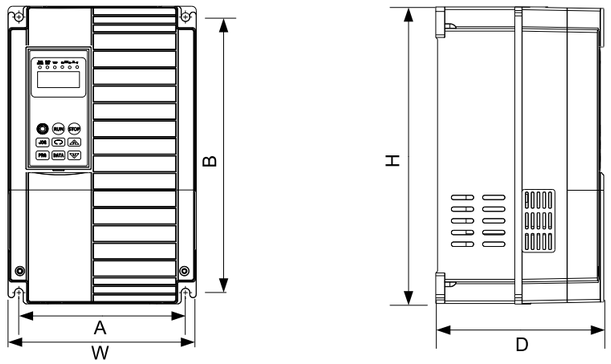
Item		Specificationtem
Basic function	Highest frequency	300Hz
	Carrier frequency	1kHz~8kHz Automatically adjust carrier frequency according to load characteristics
	Input frequency resolution	Digital setting:0.01Hz Analog setting: maximum frequency×0.1%
	Control mode	Closed-loop vector(VC) V/F control
	Start torque	0Hz/180%(VC)
	Speed range	1:1000(VC)
	Speed control accuracy	±0.02% (VC)
	Torque control accuracy	±5% (VC)
	Overload capacity	150% Rated current 60sec;180% Rated current 3sec
	Auto adjust voltage(AVR)	When grid voltage changes, can keep output voltage steadily automatically
Protection function	Protection function	Power-on motor short circuit test, output phase-loss protection, over-current protection, over-voltage protection, under-voltage protection, overheat protection, overload protection etc
Environment	Aplication site	Indoor, without direct sunlight, no powder, corrosive gas, combustion air, oil dust, water steam, water drop or salt etc
	Altiude level	Less than 1000m
	Environment temperature	-10°C~+40°C (During 40°C-50°C, please reduce capacity to use)
	Humidity	<95%RH, no water drop condensed
	Vibrate	Less than 5.9m/s2(0.6g)
	Storage temperature	-20°C~+60°C
	Protection grade	IP20

Nanjing Oulu Electric

Keypad outline



Outline size



Model	Installation Size (mm)		Outline Size (mm)			Installation hole	Weight (kg)≈
	A	B	W	H	D		
LS590-0075G-T4	186	306	210	330. 5	188	Φ9. 5	7. 5
LS590-0110G-T4							
LS590-0150G-T4							
LS590-0185G-T4							
LS590-0220G-T4							
LS590-0300G-T4							
LS590-0370G-T4	238	396	260	420	196	Φ8. 5	12. 5
LS590-0450G-T4							
LS590-0550G-T4	272	455	304	470	240	Φ9	22. 9
LS590-0750G-T4	200	614	278	630	310	Φ9	39