Частотные преобразователи VFD EV510
Технические характеристики

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EV510 AC Drive Frequency Converter VFD 220V 380V 690V

Product Description

Ausenist EV510 series of high-performance vector inverter is a universal high-performance
current vector inverter, mainly used to control and adjust the three-phase AC induction
motor speed and torque, support a variety of PG card, powerful. Can be

used for
textile, paper, drawing, machine tools, packaging, food, fans, pumps and a variety of
automated production equipment drive.

Product features:

Power range :220V/380V/480V/690V/1140V
Support vector control, optional PG card, s closed-loop control, fully functional,
support three analog inputs (two current inputs), dual analog outputs, dual relay outputs,
larger size than the market, relatively good heat dissipation, more stable quality

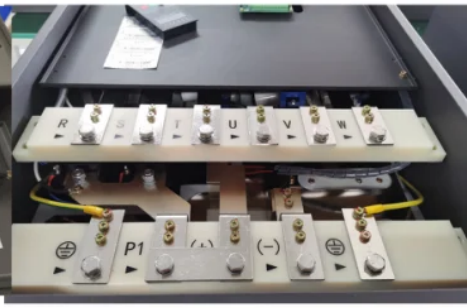
Detailed Photos

4~37kw

75~90kw

132~220kw

250~315kw



Product Parameters

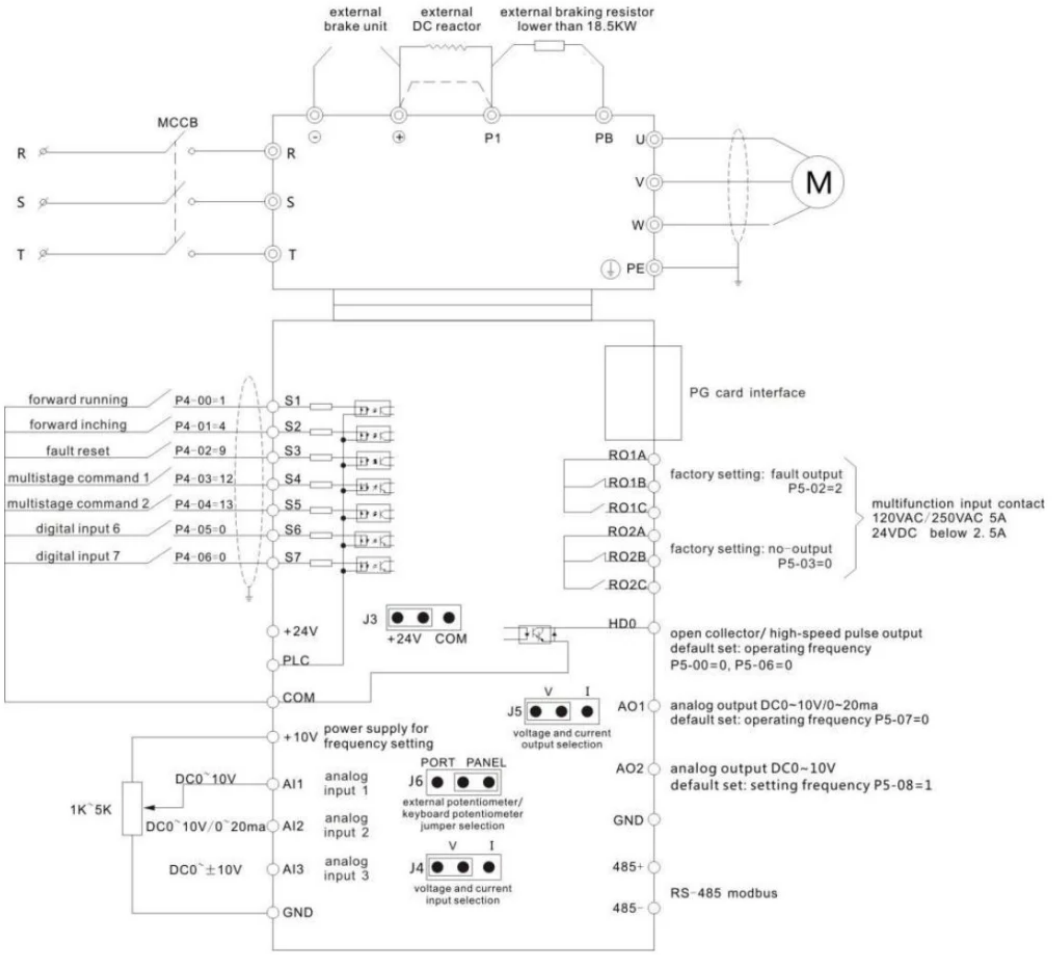
Item		Specification
Basic Function	Maximum Frequency	Vector control: 0~500Hz; V/F control: 0~500Hz
	Carrier Frequency	0.8KHz~12KHz; the carrier frequency could automatically adjusted based on the load features.

Input Frequency Resolution	Digital setting: 0.01Hz; Analog setting: maximum frequency × 0.025%	
Control Mode	Open-loop vector control (SVC); Closed-loop vector control (VC); V/F control	
Starting Torque	G type: 0.5Hz/150% (SVC); 0Hz/180% (FVC) P type: 0.5Hz/100%	
Speed Range	1:100 (SVC)	1:1000 (FVC)
Steady Speed Precision	±0.5% (SVC)	±0.02% (FVC)
Torque Control Precision	±5% (FVC)	
Overload Capacity	G type: 150% rated current 60s; 180% rated current 3s P type: 120% rated current 60s; 150% rated current 3s	
Torque Boost	Automatic torque boost; Manual torque boost 0.1%~30.0%	
V/F Curve	Linear type; Multi-point type; The Nth power of V/F curve (1.2th power, 1.4th power, 1.6th power, 1.8th power, 2th power)	
V/F Separation	Overall separation; Semi separation	
ACC/DEC Curve	Linear or S curve of ACC/DEC ways. Four types of ACC/DEC Time, ACC/DEC time range is 0.0~6500.0s.	
DC Brake	DC brake frequency: 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 ACC/DEC time: 0.0s~6500.0.s	

Personable Function	Simple PLC, multistage speed running	Via built-in PLC or control terminal can realize max. 16 stages speed running.
	Built-in PID	Can realize process control close-loop system conveniently.
	Auto Voltage Regulation (AVR)	It can keep constant output voltage automatically when the network voltage changes.
	Overcurrent and Overvoltage Speed Control	During running, limit current and voltage automatically, protect from tripping off frequently for over voltage and over current.
	Quick Current-limit Function	Reduce over current error on max extent, protect inverter normal running.
	Torque Limitation and Control	"Digger" feature, could limit torque automatically, prevent over current tripping off; closed-loop vector can realize torque control.
	Outstanding Perform	using high-perform current vector control
	Instantaneous Stop Not Stop	during instant power-off, by motor feedback energy,inverter compensates voltage-drop to keep running for short time
	Quick Current-limit Function	reduce over current error on max extent
	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-threaded Bus Support	RS485; CAN open; CAN link

	Multi-encoder Support	differential; open collector; rotary transformer
	Command Source	control panel; control terminal; communication can be switched by several modes
	Frequency Source	10 types: 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 flexibility.
Running	Input Terminal	Standard: 7 digital input terminals: one of them support max 100KHz high-speed pulse input; 3 analog input terminals: one support 0~10V voltage input only; one support 0~10V voltage or 0~20mA current input; one support -10~10V voltage input.
	Output Terminal	Standard: 1 high-speed pulse output terminal (optional open collector), support 0~100KHz pulse; 1 digit output terminal; 2 relay output terminals; 2 analog output terminals, one of them support 0~20mA current output.
Display and Keypad	LED Display	can display parameter
	Press-key Locking and Function Selection	Realize press-key partial or full locking, define part press-key function range, to avoid wrong operation.
	Protection Function	Motor short-circuit detection at power-on, input/output phase loss protection, overcurrent protection,overvoltage protection, undervoltage protection,overheat protection and overload protection.

	Optional Parts	Differential Input PG Card; Rotating Transformer PG Card; OC Input PG Card
Environment	Installation Location	Indoor, free from direct sunlight, dust, corrosive gas, combustible gas, oil smoke, vapour, drip or salt.
	Altitude	lower than 1000m (derated if higher than 1000m)
	Ambient Temperature	-10ºC~+40ºC (derated if the ambient temperature is between 40ºCand 50ºC)
	Humidity	less than 95%RH, without condensing
Optional	Double Screens Display LED Panel	LCD displays the operating panel; universal RJ45 interface
	LCD Panel	LCD displays the operating panel; could copy parameter



Model	Power Capacity (KVA)	Input Current (A)	Output Current (A)	Match Motor (KW)
Single-phase: 220V, 50/60Hz				
EV510-0004G-S2	1	5.4	2.3	0.4
EV510-0007G-S2	1.5	8.2	4	0.75
EV510-0015G-S2	3	14	7	1.5
EV510-0022G-S2	4	23	9.6	2.2
Three-phase: 220V, 50/60Hz				
EV510-0037G-T2	8.9	14.6	13	3.7
EV510-0055G-T2	17	26	25	5.5
EV510-0075G-T2	21	35	32	7.5
EV510-0110G-T2	30	46.5	45	11
EV510-0150G-T2	40	62	60	15
EV510-0185G-T2	57	76	75	18.5
EV510-0220G-T2	69	92	91	22
EV510-0300G-T2	85	113	112	30
EV510-0370G-T2	114	157	150	37
EV510-0450G-T2	134	180	176	45
EV510-0550G-T2	160	214	210	55
EV510-0750G-T2	231	307	304	75
Three-phase: 380V/480V, 50/60Hz				
EV510-0007G-T4/T5	1.5	3.4	2.1	0.75
EV510-0015G-T4/T5	3	5	3.8	1.5
EV510-0022G-T4/T5	4	5.8	5.1	2.2
EV510-0037G/0055P-T4/T5	5.9	10.5	9	3.7
EV510-0055G/0075P-T4/T5	8.9	14.6	13	5.5
EV510-0075G/0110P-T4/T5	11	20.5	17	7.5
EV510-0110G/0150P-T4/T5	17	26	25	11
EV510-0150G/0185P-T4/T5	21	35	32	15
EV510-0185G/0220P-T4/T5	24	38.5	37	18.5

EV510-0220G/0300P-T4/T5	30	46.5	45	22
EV510-0300G/0370P-T4/T5	40	62	60	30
EV510-0370G/0450P-T4/T5	57	76	75	37
EV510-0450G/0550P-T4/T5	69	92	91	45
EV510-0550G/0750P-T4/T5	85	113	112	55
EV510-0750G/0900P-T4/T5	114	157	150	75
EV510-0900G/1100P-T4/T5	134	180	176	90
EV510-1100G/1320P-T4/T5	160	214	210	110
EV510-1320G/1600P-T4/T5	192	256	253	132
EV510-1600G/2000P-T4/T5	231	307	304	160
EV510-2000G/2200P-T4/T5	250	385	377	200
EV510-2200G/2500P-T4/T5	280	430	426	220
EV510-2500G/2800P-T4/T5	355	468	465	250
EV510-2800G/3150P-T4/T5	396	525	520	280
EV510-3150G/3550P-T4/T5	445	590	585	315
EV510-3550G-T4/T5	500	665	650	350
EV510-4000G-T4/T5	565	785	725	400
EV510-5000G-T4/T5	700	890	870	500
EV510-5600G-T4/T5	783	980	950	560
EV510-6300G-T4/T5	882	1180	1100	630
Three-phase: 690V, 50/60Hz				
EV510-0550G-T6	84	70	65	55
EV510-0750G-T6	107	90	86	75
EV510-0900G-T6	125	105	100	90
EV510-1100G-T6	155	130	120	110
EV510-1320G-T6	192	170	150	132
EV510-1600G-T6	231	200	175	160
EV510-2000G-T6	250	235	215	200
EV510-2200G-T6	280	247	245	220
EV510-2500G-T6	355	265	260	250
EV510-2800G-T6	396	305	299	280

EV510-3150G-T6	445	350	330	315
EV510-3550G-T6	500	382	374	355
EV510-4000G-T6	565	435	410	400

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