

Item		Specification		
Control	Control mode	V/F Control		
		Open-loop Vector Control (SVC)		
		Closed-loop Vector Control (VC)(Invalid CDI-E100 Series)		
	Frequency Resolution	Digital: 0.02%		
		Analog: 0.1%		
	V/F curve	Linear, square root, random V/F		
	Overload Capability	G Model: 60s for 150% of the rated current; 3s for 180% of the rated current;		
		P Model: 60s for 120% of the rated current; 3s for 150% of the rated current;		
	Start	G Model: 0.5Hz/150% (SVC); 0Hz/180% (VC)		
	Torque	P Model: 0.5Hz/100%		
Speed Regulation Range	1:100(SVC)	1:1000(VC)		
	Stable Speed Accuracy	±0.5%(SVC)	±0.02%(VC)	
Torque Control Accuracy	±5%(VC)			
Torque Compensation	Manual torque compensation (0.1%~30.0%), automatic torque compensation			
Configuration	Control power supply P24V	E100	Max. Output Current 300mA with current-limiting protection	
		E102	Max. Output Current 300mA without current-limiting protection	
		E180	Max. Output Current 300mA with current-limiting protection	
	Input Terminal	E100	6-way Digital Input Terminal (DI1~DI6), in which D16 can access to high-speed Impulse Input (both built-in and external power supply are available).	
			2-way Analog Input Terminal (VF1, VF2), which can be used as voltage (0V~10V) or current (0/4mA~20mA) input. It can be used as Digital Input Terminal through reference.	
		E102	5-way Digital Input Terminal (DI1~DI6), in which D16 can access to high-speed Impulse Input (only internal power supply is available)	

			2-way Analog Input Terminal (VF1, VF2), which can be used as voltage (0V~10V) or current (0/4mA~20mA) input. It can be used as Digital Input Terminal through reference.
		E180	<p>6-way Digital Input Terminal (DI1~DI6),in which DI6 can access to high-speed Impulse Input. Through external I/O expansion card, it can be expanded to 4-way(DI7~DI10).</p> <p>2-way Analog Input Terminal (VF1, VF2), which can be used as voltage (0V~10V) or current (0/4mA~20mA) input. It can be used as Digital Input Terminal through setting</p> <p>NOTE: Both internal power supply and external power supply can be used for DI1~DI6, only internal power supply can be used for DI7~DI10.</p>
Item		Specification	
Configuration	Output Terminal	E100	<p>2-way Analog Input Terminal (FM1, FM2), which can not only be used as output voltage (0V~10V),but output current (0mA~20mA)</p> <p>1-way open collector output (YO), DC 48V 50Ma below</p> <p>1-way Impulse output (FMP), Frequency Range between 0.01kHz~100.00kHz</p> <p>2-way Relay Output (T1, T2), DC 30V/3A below and AC 250V/3A below</p> <p>Note: YO and FMP are common YO/FMP terminal, but only one can be used at the same time.</p>
		E102	<p>1-way Analog Input Terminal FM1, which can not only be used as output voltage (0V~10V),but output current (0mA~20mA).</p> <p>1-way Relay Output T1, DC 30V/3A below and AC 250V/3A below</p>
		E180	<p>2-way Analog Input Terminal (FM1, FM2), which can not only be used as output voltage (0V~10V),but output current (0mA~20mA)</p> <p>1-way open collector output (YO), DC 48V 50Ma below. Additional 2-way open collector output (YO1, YO2) can be added through external IO expansion card.</p> <p>1-way Impulse output (FMP), Frequency Range between 0.01kHz~100.00kHz</p> <p>2-way Relay Output (T1, T2), DC 30V/3A below w and AC 250V/3A below</p> <p>Note: YO and FMP are common YO/FMP terminal, but only one can be used at the same time.</p>
Running	Operating mode	Keyboard, terminal, RS485 communication	
	Frequency Source	14 kinds of main frequency sources and 14 kinds of auxiliary sources.	

		Adopt various combination modes to switch. Diversification to Each Frequency Source Input Mode: keyboard potentiometer, external analog, digital reference, impulse reference, Multiplex Directive, simple PLC, communication, arithmetic results, etc.
	Torque Source	14 kinds of Torque Sources, including digital reference, external analog, impulse reference, Multiplex Directive, communication, arithmetic results, etc.
	Acceleration and Deceleration Time	Four groups of straight lines (select the terminal to switch through acceleration and deceleration time), S Curve 1 and S Curve 2
	Emergency stop	Interrupt output of frequency inverter.
	Multiplex Speed	16 speed is allowable to set at most and use various combination of multiplex directive terminal to switch
	Simple PLC Function	Continuously run 16-phase speed and independently set acceleration and deceleration time and running time
	Jogging Control	Independently set Jogging frequency and jogging acceleration and deceleration time, additionally, set the unit under running state and confirm whether the jogging is preferential
	Rotating Speed Tracking	Frequency inverter starts operation by tracking the load speed
	Fixed-length and Fixed-distance Control	Realize fixed-length and fixed-distance control function through Impulse Input

Item		Specification
Running	Control mode	Realize counting function through Impulse Input
	Wobblating Function	Apply for textile winding equipment
	Built-in PID	Realize process control closed loop system
	AVR Function	When the grid voltage fluctuates, ensure constant output
	DC Braking	Realize fast and stable shut-down
	Slip Compensation	Compensate the speed deviation caused by the increase of load
	Hopping Frequency	Prevent resonance from occurring with load
	Sagged Function	Balance the load of multiple motors with same load

	Timing Control	Be able to realize automatic shutdown of the frequency inverter when reaching given time
	Built-in Virtual Delay Relay	Realize simple logic Programming to multi-functional output terminal function and digital input terminal signal, the logic results can not only be equivalent to digital input terminal function, but can be output through multi-functional terminal output
	Built-in Timer	Build in 2 timers and acquire the timing input signal to realize timing signal output. Use alone or in combination
	Operation Module Built-in Operation Module	One built-in 4-way Operation Module to realize simple addition, subtraction, multiplication and division, size judgment and integral operation
Communication	E100	The control panel is directly equipped with RS485 Communication Interface and supports Standard MODBUS Protocol
	E102	The control panel is not equipped with built-in RS485 Communication Interface, so external communication expansion card is required. It supports Standard MODBUS Protocol (External Connection of E102-485 Expansion Card)
	E180	The control panel is not equipped with built-in RS485 Communication Interface, so external communication expansion card is required. It supports Standard MODBUS Protocol (External Connection of E180-485 Expansion Card)
Encoder	E100	Be able to connect the encoder through Terminal DI5 & DI6 on control panel, such an encoder connection method can realize simple closed-loop control through PID Control and used for occasions without high requirements to control accuracy.
	E102	Only connect to 1-way pulse signal of encoder (DI6)
	E180	The control panel is not equipped with encoder interface, so external encoder expansion card is required. It supports ABZ Incremental Encoder, UVW Incremental Encoder and Rotary Transformer. This encoder connection method can realize high-performance closed-loop vector control and be used for occasions with high requirements to control accuracy.
Type of Motor	E100	Only be equipped with asynchronous motor
	E102	Only be equipped with asynchronous motor
	E180	Not only be equipped with asynchronous motor, but synchronous motor

