

CHE100 SERIES SENSORLESS VECTOR CONTROL FREQUENCY INVERTER

Features:

- Power range: 0.4~315KW
- Achieve excellent sensor-less vector control based on DSP platform
- Static and dynamic motor parameter autotune, ensure excellent vector control
- Independent duct design
- Built-in DC reactors above 18.5KW to improve power factor
- Wobble frequency control: Offer multiple triangular wave to meet specific demand of textile industry
- Offer RS485 communication port which support standard Modbus RTU and ASCII protocol
- Unique shortcut menu: Offer shortcut to view and modify function parameter in common use
- Support local and remote operator panel at the same time, make commissioning more convenient
- CHE150 series high frequency inverter (1.5~22KW) is able to output 3000Hz which can be used for high speed spinning machine



Typical Applications:

Textile, printing & dyeing, chemical fibers, paper making, wire-drawing, manipulator, solid warehouse, oxygen making machine, machine tools, air-compressor, ceramic machine

Features:

- Power range: 0.4~315KW
- High performance V/F control
- Speed pick-up function: Smoothly start the running motor
- Offer RS485 communication port which support standard Modbus RTU and ASCII protocol
- Drive larger variable torque load directly, eliminate warehouse and fasten delivery time
- Length control: Utilize constant length control by calculating the number of pulse
- Simple water supply control: Automatic switch of two variable frequency pumps
- We can offer 690V/1140V high performance frequency inverter (45~800KW) which is suitable for application in oil field and coal mine

CHF100 SERIES GENERAL PURPOSE FREQUENCY INVERTER



Typical Applications:

pumps and fans, extruder, automatic production line, air conditioner, water supply, food machine, blender, packing machine, medicine machine, conveyor, blowmolding machine, oil pump, fountain

Specifications overview of CHV CHE CHF series

Feature	Description		
	CHV	CHE	CHF
Mains Connection			
Supply Voltage	1AC 220V±15% 3AC 220V/380V/460V/690V/1140V±15%		
Frequency	47~63Hz		
Power Factor	0.92		
Efficiency	>98% (at nominal power)		
Control Function			
Control Mode	Sensorless vector control (SVC) Close loop vector control (VC) V/F control	Sensorless vector control(SVC) V/F control	V/F control
Overload Capacity	150% In for 60s 180% In for 10s	CT: 150% In for 60s 180% In for 10s VT: 120% In for 60s 150% In for 10s	CT: 150% In for 60s 180% In for 10s VT: 120% In for 60s 150% In for 10s
Frequency Control	0~600Hz Resolution: 0.01Hz (Digital), Maximum frequency x 0.1% (Analogue)		
Starting Torque	150% Mn at 0.5Hz (SVC) 180% Mn at 0Hz (VC)	150% Mn at 0.5Hz (SVC)	
Speed Control			
Speed Range	1:100 (SVC) 1:1000 (VC)	1:100 (SVC)	
Speed Accuracy	±0.5% maximum speed (SVC) ±0.02% maximum speed (VC)	±0.5% maximum speed (SVC)	±1.0% maximum speed
Multi-speed	16	8	16
Advanced Control Function			
Traverse Control	Standard		
Length Control	Standard	N/A	Standard
Tension Control	Optional	N/A	N/A
Terminal Connection			
Input	DI: 6 (1 HDI), 4 DI extendable AI: 2 (0~10V or 0~20mA selectable), 2 AI extendable	DI: 4 AI: 2 (0~10V or 0~20mA selectable)	DI: 6 (1 HDI) AI: 2 (0~10V or 0~20mA selectable)
Output	HDO: 1 DO: 1, 1 DO extendable RO: 2, 1 RO extendable AO: 1, 1 AO extendable, 0/4~20mA or 0/2~10V selectable	DO: 1 RO: 1 AO: 1, 0/4~20mA or 0/2~10V selectable	DO or HDO: 1 RO: 2 (<2.2KW only 1); AO: 1, 0/4~20mA or 0/2~10V selectable
LCD panel	Chinese/English selectable (Optional), parameter download and upload		
AC Input Choke	Optional		
RFI Filter	Optional		
Environment Limit			
Ambient Temperature	Operation: -10~ +40°C Transportation & Storage: -30~ +60°C		
Relative Humidity	<95%, no condensation allowed		
Altitude	0~1000m without derating, 1000~4000m with derating		
Cooling Method	Dry clean air		