

CHE100 Series

SENSORLESS VECTOR CONTROL FREQUENCY INVERTER

invtr

Technical Features



I/O features	Power range	3 AC 380-480V±15% 0.75KW-11KW
	Input Frequency Range	47~63Hz
	Output Voltage Range	0~rated input voltage
	Output Frequency Range	0~400Hz
I/O terminals	input terminals	Programmable DI: 4 Programmable AI: AI1: 0-10V, AI2: 0-10V or 0-20mA
	output terminals	Programmable Open Collector Output: 1 (open collector or high speed pulse output selectable) Relay output: 1 Analog output: 1 (AO1: 0/4-20mA or 0-10V)
	communication terminals	Provide RS485 communication interface, adopt Modbus-RTU communication mode
Control function	control mode	V/F control, sensorless vector control (SVC)
	Speed Adjusting Range	1:100(SVC)
	Overload Capacity	60s with 150% rated current, 10s with 180% rated current
	Frequency reference source	Keypad, Analog input, Serial communication, Multi-step speed, PID and so on. The combination of multi-modes and switching between different modes can be realized
	other functions	<ul style="list-style-type: none"> ◆ Traverse Control Function ◆ PID Control Function ◆ Carrier frequency: 0.5kHz-15.0kHz ◆ Starting torque: 150% of rated torque at 0.5Hz(SVC) ◆ Speed accuracy: ±0.5% of maximum speed(SVC) ◆ Multi-step speed control function: 8 steps speed can be set ◆ None-stop when instantaneous power off ◆ Speed trace function: start the motor smoothly ◆ Automatic voltage regulation function ◆ Up to 24 fault protection: over current, over voltage, under voltage, over temperature, phase failure, over load etc.
Man-Machine Interface	LED display	Can display: setting frequency、 output frequency、 output voltage、 output current etc.
	multi-function key-press	The QUICK/JOG key-press can be used as multi-function key-press.
EMC	EMC criterion	if the installing and wiring of the inverter together with the EMI filter according to 《Manual of CHF100A》, we can promise it's must meet the following criterion:
		I EN61000-6-4
		I EN61800-3
environmental constraint	temperature	-10°C ~ +40°C. Inverter will be derated if ambient temperature exceeds 40°C.
	humidity	≤90%, without condensation
	altitude	≤1000M, output rated power >1000M, output power with derating
	impingement and oscillation	The inverter is prohibited to drop on the floor or with suddenly impact, it also prohibited to be installed at the place where the oscillation may occur very probably.
	electromagnetic radiation	The inverter is prohibited to be installed at the place where stronger electromagnetic radiation may occur very probably.
	store environment	The inverter is prohibited to be stored at the place where with direct sunlight, fall of oil mist, steam and with heavy oscillation.

Selection guide:

Model No.	Rated Output Power (kW)	Rated Input current (A)	Rated Output current (A)	Motor Power (KW)
1AC 220V -15%~15%				
CHE100-0R4G-S2	0.4	5.4	2.3	0.4
CHE100-0R7G-S2	0.75	8.2	4.5	0.75
CHE100-1R5G-S2	1.5	14.2	7.0	1.5
CHE100-2R2G-S2	2.2	23.0	10	2.2
3AC 220V -15%~15%				
CHE100-0R7G-2	0.75	5.0	4.5	0.75
CHE100-1R5G-2	1.5	7.7	7	1.5
CHE100-2R2G-2	2.2	11.0	10	2.2
CHE100-004G-2	4.0	17.0	16	3.7
CHE100-5R5G-2	5.5	21.0	20	5.5
CHE100-7R5G-2	7.5	31.0	30	7.5
CHE100-011G-2	11.0	43.0	42	11.0
3AC 380V -15%~15%				
CHE100-0R7G-4	0.75	3.4	2.5	0.75
CHE100-1R5G-4	1.5	5.0	3.7	1.5
CHE100-2R2G-4	2.2	5.8	5	2.2
CHE100-004G/5R5P-4	4.0/5.5	10/15	9/13	4.0/5.5
CHE100-5R5G/7R5P-4	5.5/7.5	15/20	13/17	5.5/7.5
CHE100-7R5G/011P-4	7.5/11	20/26	17/25	7.5/11
CHE100-011G/015P-4	11/15	26/35	25/32	11/15

Application

CHE100 series (Output frequency range is 0-400Hz):

Textile machinery, Plastic machinery, ceramic machinery, electric machinery, numerical control machine, foodstuff processing machinery, etc.

