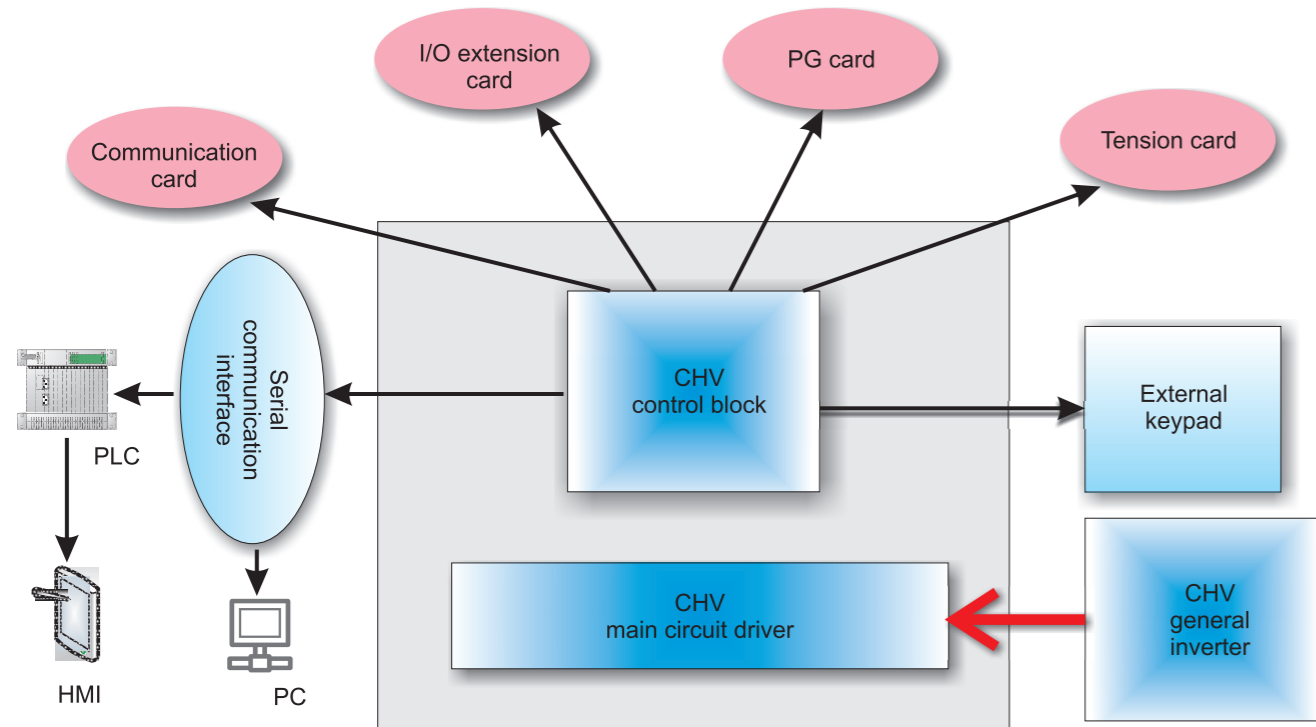


### CHV100 series control framework



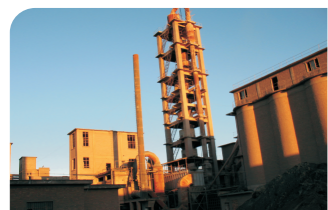
### Technical Features

I/O features	Power range	3 AC 380-480V±15% 0.75KW-3000KW	
	Input Frequency Range	47~63Hz	
	Output Voltage Range	0~rated input voltage	
I/O terminals	Output Frequency Range	0-1500Hz	
	input terminals	Programmable DI: 5(4 input can be extended by I/O extension card)High speed pulse input: 1(HDI1) Programmable AI: AI1: 0-10V, AI2: 0-10V or 0-20mA, AI3 (-10V~+10V) and AI4 (0~10V or 0~20mA) can be extended by I/O extension card.	
	output terminals	Programmable Open Collector Output: provide 1 output terminal and 1 output (open collector or high speed pulse output selectable) can be extended by I/O extension card. Relay output: provide 2 output terminals and 1 output can be extended by I/O extension card. Analog output: provide 1 output terminal (AO1: 0/4-20mA or 0-10V) and 1 output (Ao2: 0/4-20mA or 0/2-10V) can be extended by I/O extension card.	
Control function	communication terminals	Provide RS485 communication interface, adopt Modbus-RTU communication mode	
	control mode	V/F control; Sensorless Vector Control(SVC); Vector Control(VC)	
	Speed Adjusting Range	1:100(SVC), 1:1000(VC)	
	Overload Capacity	60s with 150% rated current, 10s with 180% rated current	
	Frequency reference source	Keypad, Analog input, Serial communication, Multi-stepspeed, PID and so on. The combination of multi-modes and switching between different modes can be realized	
	other functions		◆ Traverse Control Function
			◆ PID Control Function
			◆ Carrier frequency: 1.0kHz-16kHz
			◆ Starting torque: 150% of rated torque at 0.5Hz(SVC)
			◆ 180% of rated torque at 0Hz(VC)
		◆ Speed accuracy: ±0.5% of maximum speed(SVC) / ±0.02% of maximum speed(VC)	
		◆ Simple PLC and Multi-step speed control function: 16 steps speed can be set.	
Man-Machine Interface		◆ None-stop when instantaneous power off	
		◆ Speed trace function: start the motor smoothly	
		◆ Automatic voltage regulation function	
		◆ Up to 29 fault protection: over current, over voltage, under voltage, zover temperature, phase failure, over load etc.	
EMC	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.	
environmental constraint	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 [Normally, if the cable of motor is longer than 50m, it's should install AC reactor or sinusoidal filter at the output side of the inverter.]	
	temperature	-10°C ~ +40°C. Inverter will be derated if ambient temperature exceeds 40°C.	
	humidity	≤90%, without condensation	
store environment	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.	

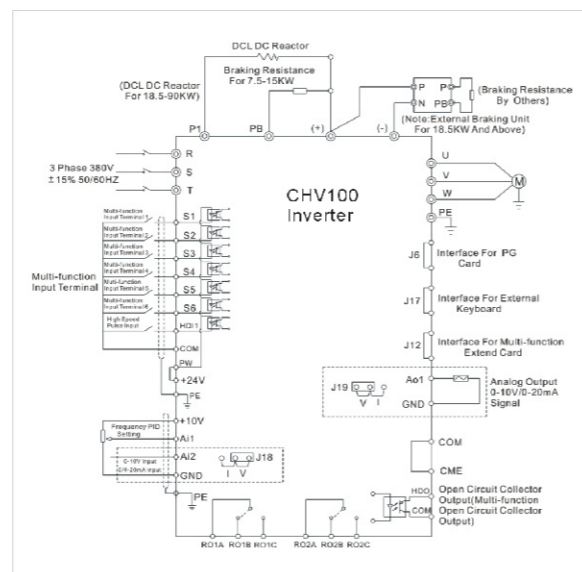


### Typical Application

Printing machine, dying machine, paper machine, wind and unwind, high accuracy machine tool, cutting machine, steel rolling, metal, wire machine, drawbench, position control, zero speed servo control



### Wiring Diagram



## Selection Guide

Model No.	Rated Power (kW)	Rated input current (A)	Rated output current (A)
3AC 380V -15%~15%			
CHV100-1R5G-4	1.5	5	3.7
CHV100-2R2G-4	2.2	5.8	5.0
CHV100-004G-4	4	10	9
CHV100-5R5G-4	5.5	15	13
CHV100-7R5G-4	7.5	20	17
CHV100-011G-4	11	26	25
CHV100-015G-4	15	35	32
CHV100-018G-4	18.5	38	37
CHV100-022G-4	22	46	45
CHV100-030G-4	30	62	60
CHV100-037G-4	37	76	75
CHV100-045G-4	45	90	90
CHV100-055G-4	55	105	110
CHV100-075G-4	75	140	150
CHV100-090G-4	90	160	176
CHV100-110G-4	110	210	210
CHV100-132G-4	132	240	250
CHV100-160G-4	160	290	300
CHV100-185G-4	185	330	340
CHV100-200G-4	200	370	380
CHV100-220G-4	220	410	415
CHV100-250G-4	250	460	470
CHV100-280G-4	280	500	520
CHV100-315G-4	315	580	600
CHV100-350G-4	350	620	640
CHV100-400G-4	400	670	690
CHV100-500G-4	500	835	860
CHV100-560G-4	560	920	950
CHV100-630G-4	630	1050	1100
CHV100-710G-4	710	1200	1250
CHV100-800G-4	800	1350	1400
3AC 220V -15%~15%			
CHV100-1R5G-2	1.5	7.7	7
CHV100-2R2G-2	2.2	11	10
CHV100-004G-2	4	17	16
CHV100-5R5G-2	5.5	21	20
CHV100-7R5G-2	7.5	31	30
CHV100-011G-2	11	43	42
CHV100-015G-2	15	56	55
CHV100-018G-2	18.5	71	70
CHV100-022G-2	22	81	80
CHV100-030G-2	30	112	110
CHV100-037G-2	37	132	130
CHV100-045G-2	45	163	160
CHV100-055G-2	55	181	190

## Wiring diagram of CHV100 series inverter

