



变频器

**INVERTER**

*Changes for Better Life*



## T200 series high-performance vector inverter



芜湖众辰自动化设备有限公司  
Wuhu ZONCN Automation Equipment Co., LTD



## T200 Series

### Multi-function and High-performance Vector Frequency Converter

- Economically affordable; Micro compact design
- Easy to use and install: DIN rail installation(below 3.7kW), keyboard cable with RJ45, STO function (support 380V below15kW), built-in EMC filter, 24VDC power supply, PID adjustment.
- V/F control, open-loop vector control, closed-loop vector control mode
- Power range 0.4-55KW (above 75kW under developing)
- Supporting multiple expansion cards: EtherCAT, Profibus-DP, ProfiNet, ModbusTCP, CAN open, Digital I/O, PG card
- External keyboard parameter copying function

## Technical Specification

Item	T200	
Basic functions	Maximal frequency	0~599Hz
	Carrier frequency	0.5kHz~16kHz The carrier frequency can be adjusted according to the load characteristics.
	Input the frequency resolution	Number setting: 0.01Hz Simulation setting: maximum frequency 0.025%
	Control method	V/F control Open-loop vector control (without PG) Closed-loop vector control (with PG)
	Pull-in torque	G-type machine: 0.5Hz / 150% (without PG); P-type machine: 0.5Hz / 100%
	Speed range	1:100 (without PG)
	Torque control accuracy	± 5% (with PG)
	Overload capacity	G-type machine: 150% rated current 60s; 180% rated current 3s. P-type machine: 120% rated current 60s; 150% rated current 3s.
	Recurrent ascension	Automatic torque lifting; manual torque increase 0.1%~30.0%
	V/F curve	Three ways: straight; multipoint; N power V / F curve (1.2 Power, 1.4 power, 1.6 power, 1.8 power, 2 power)
	V/F separation	2 ways: total separation, half separation
	Add deceleration curve	Straight-line or S-curve acceleration and deceleration mode. Four kinds of acceleration and deceleration times, and the acceleration and deceleration time range is 0.0~6500.0s
	DC injection braking	DC braking frequency: 0.00Hz~ maximum frequency; Brake time: 0.0s~100.0s; Brake action current value: 0.0%~100.0%
	JOG control	Point movement frequency range: 0.00Hz~50.00Hz. JOG acceleration and deceleration time is 0.0s~6500.0s.
	Simple PLC, multi-segment speed operation	Up to 16 segments are run by the built-in PLC or control terminal
	Built-in PID	It can easily realize the process control closed-loop control system
	Automatic Voltage Adjustment (AVR)	When the power grid voltage changes, it can automatically keep the output voltage constant
	Over pressure over pressure loss speed control	Automatic limit current voltage during operation to prevent frequent overflow pressure trip
	Quick flow restriction function	Minimize the overcurrent fault, and protect the normal operation of the frequency converter
	Torque limit and control	The "excavator" feature automatically limits the torque during operation to prevent frequent overcurrent trip
Individualized functions	Excellent performance	Asynchronous motor is realized with high-performance current vector control technology
	Instantly stop	In case of instantaneous power failure, the inverter is reduced to maintain the operation for a short time
	Fast flow limit	Avoid the frequent overcurrent fault of the frequency converter
	Timing control	Timing control function: set the time range of 0.0Min ~6500.0Min
	Communication mode to support	RS-485

# T200 Series Multi-function and High-performance Vector Frequency Converter

Item		T200
Running	Command source	Operation panel given, control terminal given, serial communication port given. It can be switched in various ways
	Frequency source	10 frequency sources: digital given, analog voltage given, analog current given, pulse given, serial port given. It can be switched in various ways
	Auxiliary frequency source	Of the 10 auxiliary frequency sources. It can flexibly assist frequency fine-tuning and frequency synthesis
	Input terminal	5 digital input terminals, one of which supports a high-speed pulse input of up to 100kHz; One analog input terminal supports 0 to 10 V, voltage input or 4 to 20 mA current input
	Output terminal	1 collector output terminal 1 relay output terminal 1 analog output terminal to support 0~20mA current output or 0~10V voltage output
Display and operation panel	LED show	Display parameters
	Key lock and function selection	Implement part or all of the keys lock, define the scope of part of the keys to prevent misoperation
	Protective function	Short-circuit detection, output phase deficiency protection, overcurrent protection, overvoltage protection, undervoltage protection, overheating protection, overload protection, etc
Environment	Installation location	Indoor, free from direct sunlight, dust, corrosive gas, combustible gas, oil smoke, vapor, drip or salt.
	Altitude	Lower than 1000m
	Ambient temperature	-10℃ ~ + 40℃ (de-rated if the ambient temperature is between 40℃ ~50℃)
	Humidity	Less than 95% RH, without condensing
	Vibration	Less than 5.9m / s <sup>2</sup> (0.6g )
	Storage temperature	-20℃~+60℃

## Specification

Model	Input Current (A)	Output Power (kW)	Output Current (A)	Motor (kW)
Input voltage: 1PH AC220V±15%				
T200-0R4G-2	5.4	0.4	2.1	0.4
T200-0R75G-2	7.2	0.75	3.8	0.75
T200-1R5G-2	10	1.5	7.2	1.5
T200-2R2G-2	16	2.2	9	2.2
T200-3R7G-2	23	3.7	13	3.7
Input voltage: 3PH AC380V±15%				
T200-0R4G-4	3.4	0.4	1.5	0.4
T200-0R75G-4	3.8	0.75	2.1	0.75
T200-1R5G-4	5.0	1.5	3.87	1.5
T200-2R2G-4	5.8	2.2	5.1	2.2
T200-3R7G/5R5P-4	10/15.0	3.7/5.5	9.0/13	3.7/5.5
T200-5R5G/7R5P-4	15	5.5	13	5.5
T200-7R5G/11P-4	20/26	7.5/11	17/25	7.5/11
T200-11G/15P-4	26/35	11/15.0	25/32	11/15.0
T200-15G/18.5P-4	35/38	15/18.5	32/37	15/18.5
T200-18.5G/22P-4	38/46	18.5/22	37/45	18.5/22
T200-22G/30P-4	46/62	22/30	45/60	22/30
T200-30G/37P-4	62/76	30/37	60/75	30/37
T200-37G/45P-4	76/90	37/45	75/91	37/45
T200-45G/55P-4	92/113	45/55	91/112	45/55
T200-55G-4	113	55	112	55

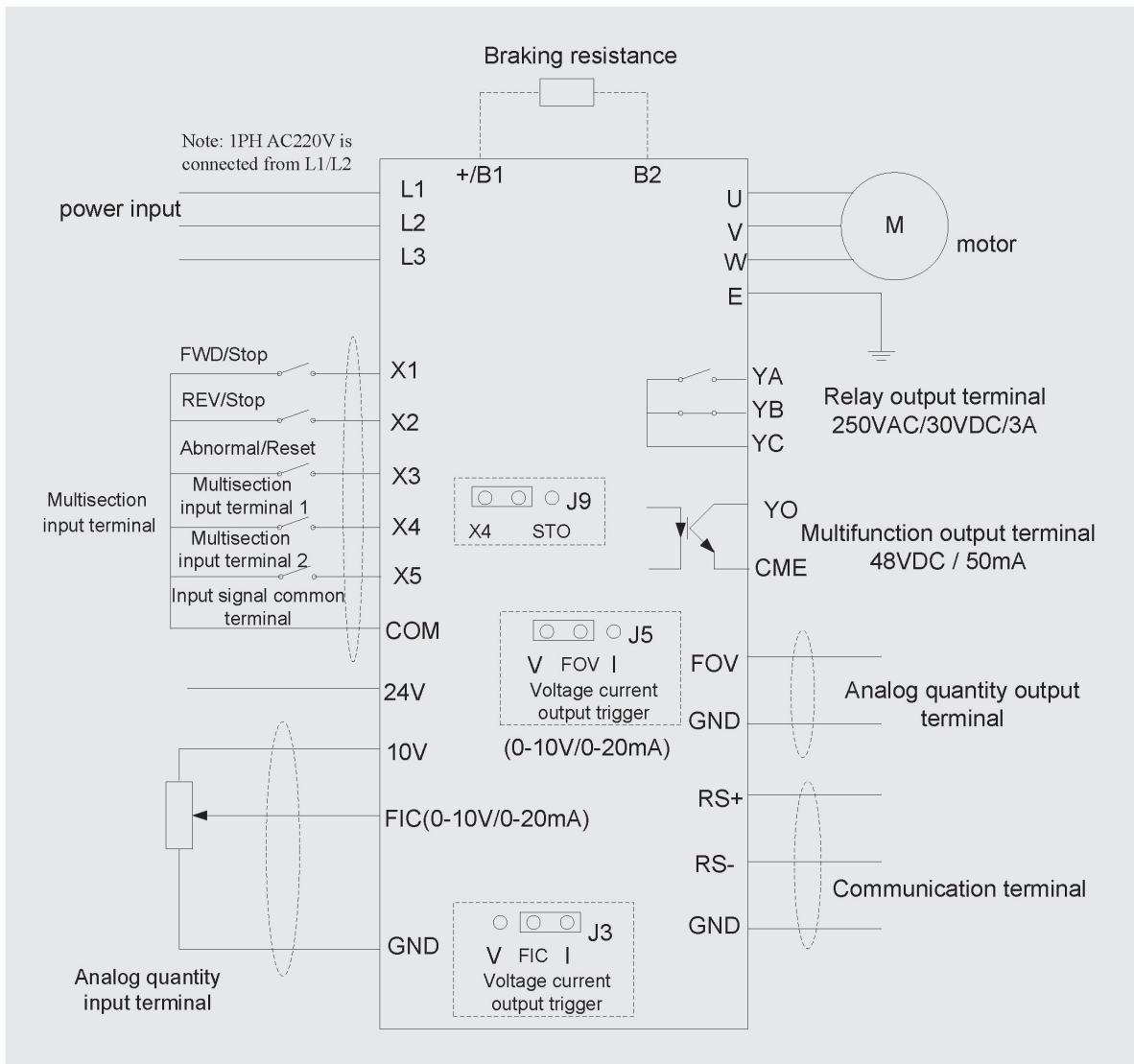


## Expansion card

Number	Expansion card external model	Function Description	Applicable Models
1	PG-T11-01	ABZ-Differential Input PG Card-5V	T200 0.4-55kW
2	PG-T11-02	ABZ-OC&Push Pull Input PG Card-24V	
3	ET-T11-01	1 normally open/normally closed relay 2 DI, 1 FIV, 1 FOC	
4	ET-T11-02	1 high-speed pulse output 2 DI, 1 FIV, 1 FOC	
5	CM-T11-01	Profibus DP communication card	
6	CM-T11-02	EtherCAT communication card	
7	CM-T11-03	CANopen	
8	CM-T11-04	Modbus TCP communication card	
9	CM-T11-05	Profinet communication card	

Note: T200 support only 1 expansions cards.

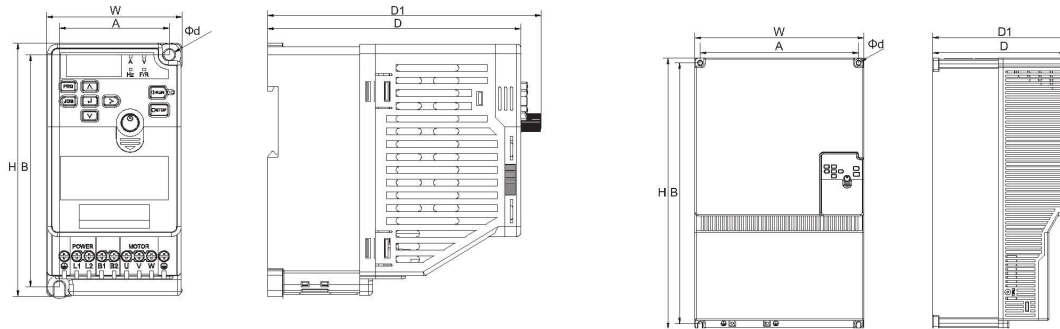
## Basic wiring diagram



# T200 Series Multi-function and High-performance Vector Frequency Converter

## Dimension

Unit: mm



SIZE	Model	External dimensions				Installation dimensions			Unit: mm
		W	H	D	D1	A	B	Φd	Installation method
A	T200-0R4G-2	69	129	129	139.5	56	118	5.5	Wall mounting
	T200-0R75G-2								
	T200-1R5G-2								
	T200-0R4G-4-D								
	T200-0R75G-4-D								
	T200-1R5G-4-D								
	T200-2R2G-4-D								
B	T200-0R4G-4	109	129	133	142	96	118	5.5	
	T200-0R75G-4								
	T200-1R5G-4								
	T200-2R2G-4								
	T200-3R7G/5R5P-4								
	T200-2R2G-2								
C	T200-5R5G/7R5P-4	125	185	165	174	113	175	5.5	
	T200-7R5G/11P-4								
D	T200-11G/15P-4	138	260	165	174	126	250	5.5	
	T200-15G/18.5P-4								
E	T200-18.5G/22P-4	168	282	165	174	152	268	7	
	T200-22G/30P-4								
F	T200-30G/37P-4	205	364	197	206	189	350	7	
	T200-37G/45P-4								
G	T200-45G/55P-4	262	420	205.5	214.5	246	405	7	
	T200-55G-4								



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