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Stock Code: 603275

T200 series high-performance vector inverter



芜湖无奈自动化设备有限公司
Wuhu VINAC Automation Equipment Co., LTD



T200

AC Variable Speed Drive

The T200 family offers a compact AC drive that combines easy operation with high-efficiency control for AC induction, PMS motor. The robust compact designed, various controls mode, support EtherCAT, Modbus, Profibus-DP communication, built-in EMC filter, 24VDC, STO function, Extension PG Cards.....

Specification of T200

- Cost Effective; Micro Compact Design
- Easy to use and install; DIN rail mount, RJ45 interface keypad cable
- Integrated safety - Safe Torque Off feature
- Built-in EMC Filter, 24VDC power resurce, PID
- V/F, Sensorless Vector, Closed-Loop Vector Controls mode
- Frequency range 0~599Hz;
- Automatic Voltage Regulation; Performance Load features
- Support Various Extension Cards; EtherCAT, Profibus-DP, Modbus TCP, Digital I/O
- External Keypad copy function and automatic parameter back-up





Structure introduction





1-1 Product technical parameters

Item		T200 technical parameters
Basic function T200	Maximum frequency	Vector control: 0 ~ 600Hz V/F control: 0-3200Hz
	Control mode	V/F control; Senseless flux vector control (SFVC) ; Closed loop vector control (CLVC)
	Carrier frequency	0.5kHz ~ 16kHz The carrier frequency can be automatically adjusted based on the load feature
	Input frequency resolution	Digital setting: 0.01Hz Analog setting: maximum frequency×0.025%
	Startup torque	G Type: 0.5Hz/150% (SFVC) ; P Type: 0.5Hz/100%
	Speed range	1:100(No PG)
	Speed stability accuracy	±0.5% (No PG)
	Torque control accuracy	±5% (FVC)
	Overload capacity	G type: 60s for 150% of the rated current, 3s for 180% of the rated current P type: 60s for 120% of the rated current, 3s for 150% of the rated current
	Torque boost	Fixed boost; Customized boost 0.1%-30.0%
	V/F curve	Straight-line V/F curve; Multi-point V/F curve; N-power V/F curve (1.2-power, 1.4-power, 1.6-power, 1.8-power, square)
	V/F separation	Two types: complete separation; half separation
	Ramp mode	Straight-line ramp; S-curve ramp Four groups of acceleration/deceleration time with the range of 0.00-6500.0s
	DC braking	DC braking frequency: 0.00 Hz to maximum frequency Braking time: 0.0-100.0s Braking action current value: 0.0%–100.0%
	JOG control	Jog frequency range: 0.00Hz~50.00Hz. Jog acceleration/deceleration time 0.0s~6500.0s
	Onboard multiple preset speeds	It implements up to 16 speeds via the simple PLC function or by input terminal state
	Onboard PID	It realizes process-controlled closed loop control system easily
	Auto voltage regulation (AVR)	It can keep constant output voltage automatically when the mains voltage changes
	Over-voltage/Over-current stall control	The current and voltage are limited automatically during the running process so as to avoid frequent tripping due to over-voltage/over-current.

	Rapid current limit	It helps to avoid frequent over-current faults of the inverter
	Torque limit and torque control	It can limit the torque automatically and prevent frequent over-current tripping during the running process
Personalized function	High performance	Control of asynchronous motor is implemented through the high-performance current vector control technology
	Instantaneous stop doesn't stop	The load feedback energy compensates the voltage reduction so that the AC drive can continue to run for a short time
	Timing control	Timing range 0.0Min ~ 6500.0Min
	Communication methods	RS485; EtherCAT; Profibus-DP; CAN is optional
Operation	Running command channel	Given by the panel, control terminals, Serial communication port, can be switched by many ways
	Frequency source	10 kinds of frequency source, given by digital analog voltage, analog current, pulse, serial port. can be switched by many ways
	Auxiliary frequency source	There are ten auxiliary frequency sources. It can implement fine tuning of auxiliary frequency and frequency synthesis
	Input terminals	5 digital input terminals, one of which supports up to 100 kHz high-speed pulse input; 1 analog input terminal, supports 0-10V voltage input or 4-20 mA current input.
	Output terminals	1 digital output terminal 1 relay output terminal 1 analog output terminal : that supports 0-20 mA current output or 0-10 V voltage output
Display and operation	LED display	It displays the parameters
	Key locking and function selection	It can lock the keys partially or completely and define the function range of some keys so as to prevent mis-function.
	Protection mode	Motor short-circuit detection at power-on, input output phase loss protection, over-current protection, over-voltage protection, under voltage protection, overheat protection and overload protection.

1-2 Model and specification

Model	Input voltage	Rated output power (kw)	Rated input current (A)	Rated output current (A)	Motor power (kw)
T200-0R4G-2	AC 1PH 220V± 15%	0.4	5.4	2.5	0.4
T200-0R75G-2		0.75	7.2	5.0	0.75
T200-1R5G-2		1.5	10.0	7.0	1.5
T200-2R2G-2		2.2	16.0	11.0	2.2
T200-0R4G-4	AC 3PH 380V ± 15%	0.4	3.4	1.2	0.4
T200-0R75G-4		0.75	3.8	2.5	0.75
T200-1R5G-4		1.5	5.0	3.7	1.5
T200-2R2G-4		2.2	5.8	5.0	2.2
T200-3R0G-4		3.0	8.5	7.0	3.0
T200-3R7G/5R5P-4		3.7/5.5	10/15	9/13	3.7/5.5
T200-5R5G/7R5P-4		5.5/7.5	15/20	13/17	5.5/7.5
T200-7R5G/11P-4		7.5/11	20/26	17/25	7.5/11
T200-11G/15P-4		11/15	26/35	25/32	11/15
T200-15G/18.5P-4		15/18.5	35/38	32/37	15/18.5
T200-18.5G/22P-4		18.5/22	38/46	37/45	18.5/22
T200-22G/30P-4		22/30	46/62	45/60	22/30
T200-30G/37P-4		30/37	62/76	60/75	30/37
T200-37G/45P-4		37/45	76/90	75/90	37/45
T200-45G/55P-4		45/55	92/113	90/110	45/55
T200-55G/75P-4		55/75	113/157	110/152	55/75

Models above 55KW are under continuous research and development

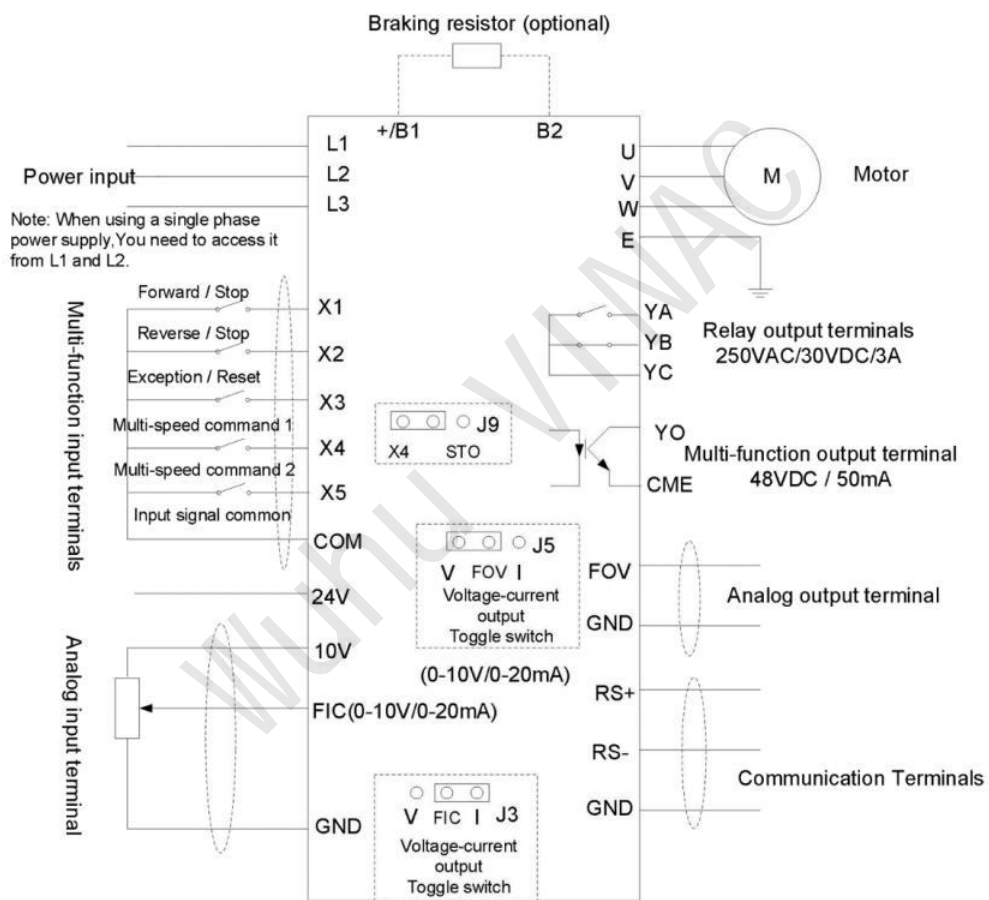
1-3 T200 series expansion card selection

No.	Expansion card model	PCB internal model number	Function description	Applicable model
1	PG-T11-01	T11PG01	ABZ_ Differential input PG card _5V	T200-0.4-55 kw
2	PG-T11-02	T11PG02	ABZ_OC& Push-pull input PG card _24V	
3	ET-T11-01	T11JK01	1 normally open normally closed relay 2 DL_1 FIV_1 FOC	
4	ET-T11-02	T11JK02	1 high speed pulse output _2 DI_1 FIV_1 FOC	
5	CM-T11-01	T11CM01	ProfibusDP communication card	

6	CM-T11-02	T11CM02	Ethercat communication card
7	CM-T11-03	T11CM03	CAN communication card
8	CM-T11-04	T11CM04	Modbus TCP communication card
9	CM-T11-05	T11CM05	Profinet communication card

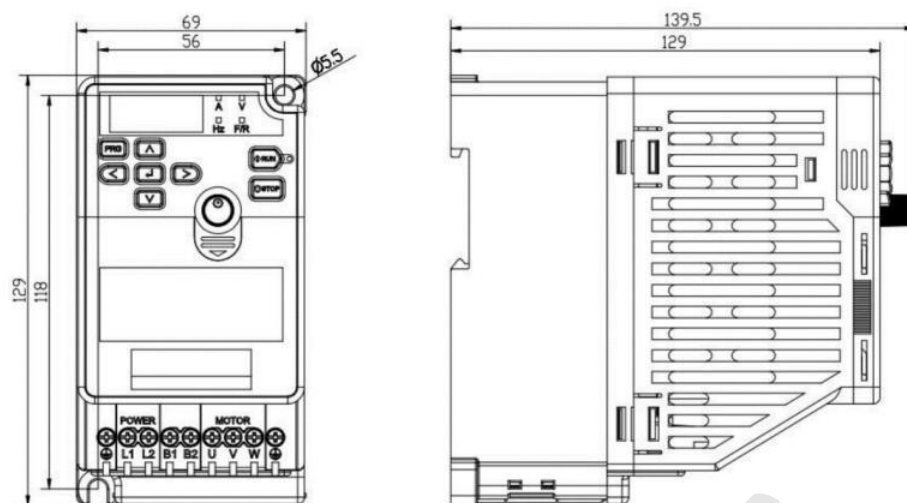
Note: This model only has 1 multi-function expansion card interface, communication card and PG share this interface. Communication card and PG card can only select one extension, not compatible at the same time.

1-4 T200 series product circuit diagram



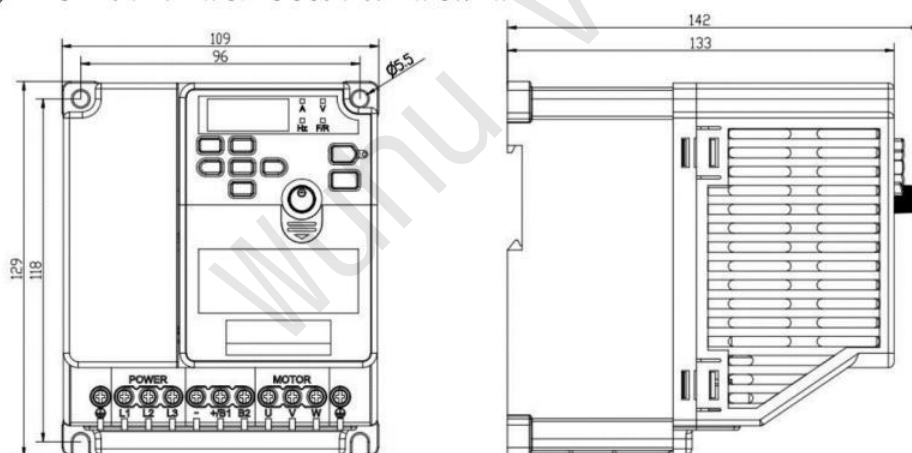
1-5 T200 series dimensions

- ① AC 220V 0.4kw~1.5kw & AC 380V 0.75kw~2.2kw “D” type

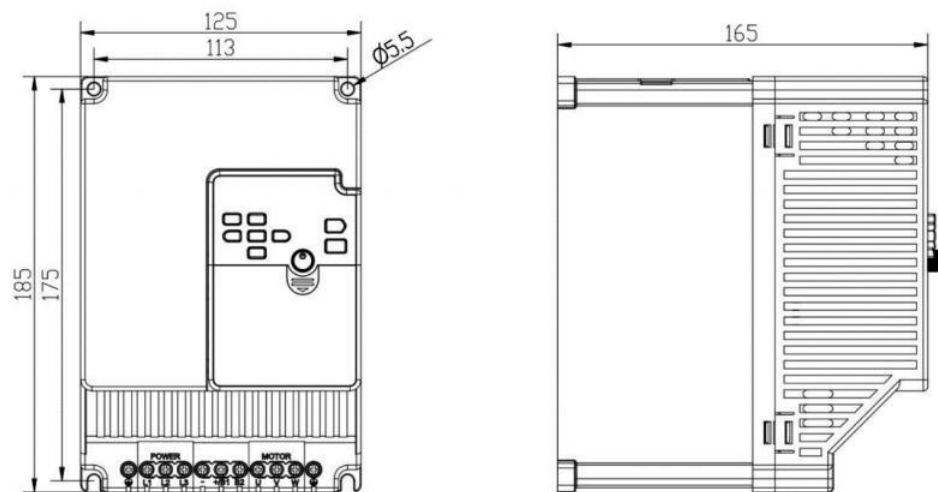


Note: This specification does not include a built-in EMC filter and only supports single tubes, not IGBTs. The remaining specifications include a built-in EMC filter and IGBT construction.
-D stands for single tube construction.

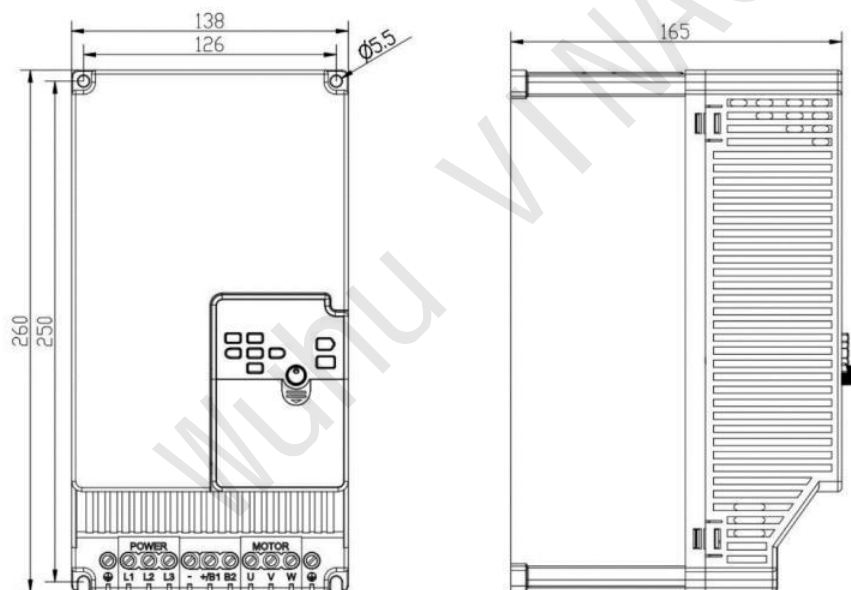
- ② AC 220V 2.2kw & AC 380V 0.4kw-3.7kw



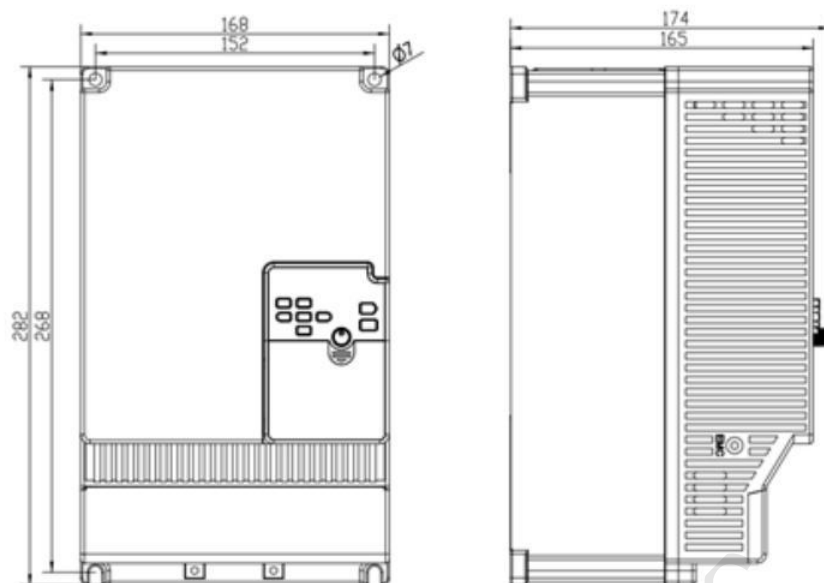
③ AC 380V 5.5kw-7.5kw



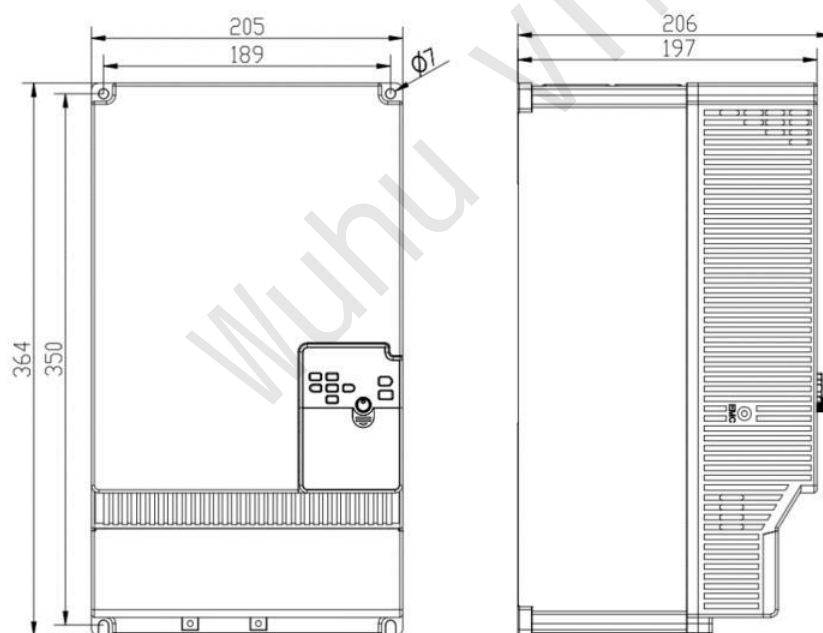
④ AC 380V 11kw-15kw



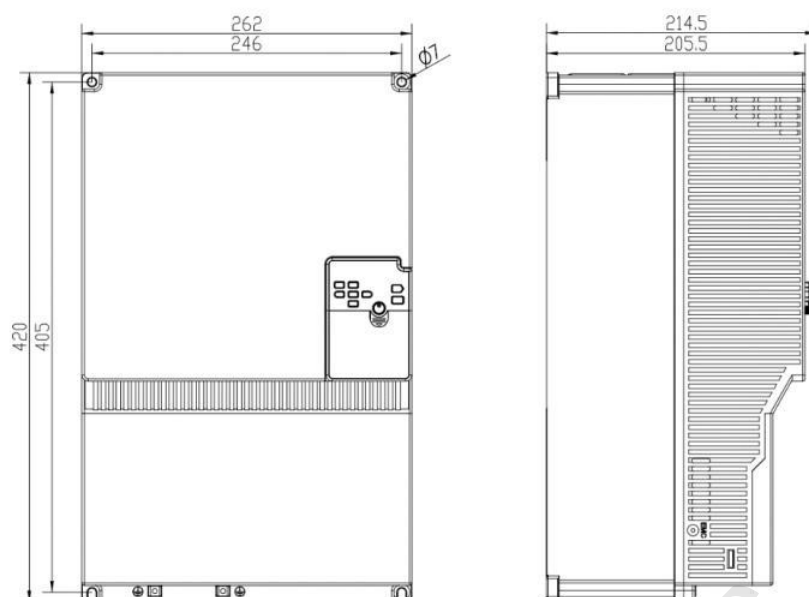
⑤ AC 380V 18.5kw-22kw



⑥ AC 380V 30kw-37kw



⑦ AC 380V 45kw-55kw



Size	Model	Overall dimension				Mounting dimension			Unit: mm
		W	H	D	D1	A	B	Φd	Installation mode
A	T200-0R4G-2	69	129	129	139.5	56	118	5.5	Wall-mounted
	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/75P-4								

1-6 T200 ordering guide

MODEL: T200-3R7G/5R5P-4

INPUT: 3PH 380V 50Hz/60Hz

OUTPUT: 3PH 380V 9.0A/13.0A

FREQ RANGE: 0.1-600Hz 3.7KW/5.5KW



2008311714



型号: T200- 3R7G/5R5P -4

2: AC 220V

4: AC 380V

3R7: 3.7kw

G: constant torque

P: variable torque

T200: T200 series vfd

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