

**C300 Series  
Smart Pump Drive Inverter**

**CENCOOR**  
The best or nothing



Guangzhou Cencoor Electric Co., Ltd.

# C300 Series Constant water pressure Inverter

Power range: single-phase power supply (200-240V) : 0.75-2.2kW; three-phase power supply (380-480V) : 0.75-400kW

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**C300 series** is a professional smart pump drive. It is special designed according to the control logic and application functions of water supply industry. This cabinet-mounted smart pump drive is leading the market with its advanced PID control algorithm, stable and outstanding performance, strong expansibility and complete functions.



- Standard dual RS485 communication Multi-pump control and host computer monitoring at same time Standard dual relay, Two Driven by One Alternate Control Case

- Independent air duct design, Standard temperature rise design, Ensure long-term reliable working Branded core components, Advanced technology solutions, Standout quality with professional QC

- Overcurrent, overvoltage, overheating, short circuit protection; High/low water pressure protection, dry run and motor idling protection, antifreeze protection, reset function after water shortage

## ■ Applications

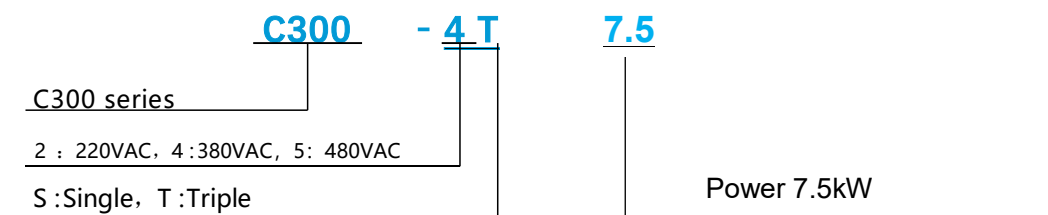
Machine tool 、 Cable machinery 、 Petrochemical industry 、 Textile industry 、 Food packaging 、 Eluting equipment 、 Centrifuge etc.



## ■ Technical Specification Table

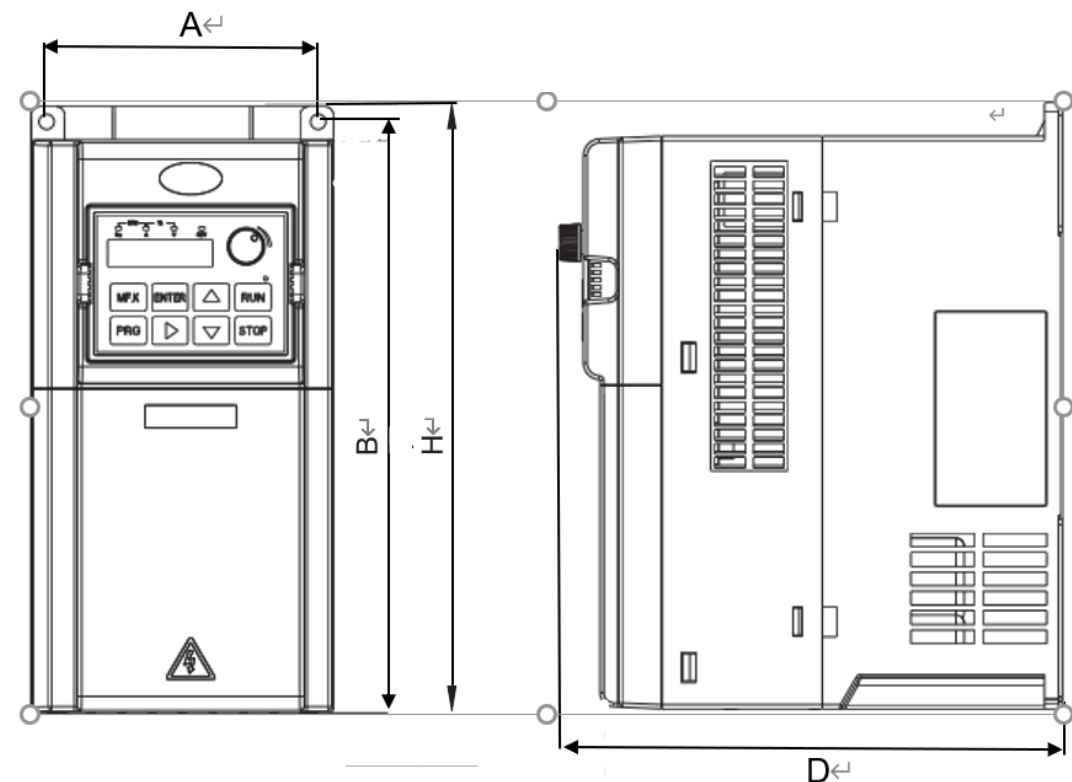
|                |                              |                                                                                                                |
|----------------|------------------------------|----------------------------------------------------------------------------------------------------------------|
| Specifications | Control mode                 | V/ F control; O pen loop vector control (SVC); Torque control                                                  |
|                | Starting torque              | G type: 0.5Hz/ 150% (SVC) P type: 0.5Hz/ 100%                                                                  |
|                | Speed regulation range       | 1 : 100 (SVC)                                                                                                  |
|                | Speed stabilization accuracy | ±0.5% (SVC)                                                                                                    |
|                | Overload capacity            | G type: 150% rated current 60s; 180% rated current 3s<br>P type: 120% rated current 60s; 150% rated current 3s |
| Running        | Input voltage range          | 220V/380V±1.5%                                                                                                 |
|                | Input frequency range        | 50/60Hz, Fluctuation range: ±5%                                                                                |
|                | Output voltage range         | 0-220V, 0-415V                                                                                                 |
|                | Output frequency range       | SVC: 0~320Hz, V/ F: 0~3200Hz                                                                                   |
| Running        | AI                           | 2 circuit, 1 circuit 0-10V, 1 circuit 0-20mA                                                                   |
|                | DI                           | 3 circuits, X3 compatible with high-speed pulse input                                                          |
|                | AO                           | NA                                                                                                             |
|                | Relay output                 | 2 circuit                                                                                                      |
|                | CAN                          | 1 circuit                                                                                                      |
|                | RS485 interface              | 1 circuit                                                                                                      |
|                | Power supply                 | 2 circuits: 1 circuit DC 5V, 1 circuit DC 10V, 1 circuit DC 24V                                                |
| Environment    | Altitude                     | Lower than 1000m, if it is higher than 1000m, the derating will be 1% for every 100m increase.                 |
|                | Ambient temperature          | -10℃ ~ +40℃ (the ambient temperature is 40℃ - 50℃, please derate in use)                                       |
|                | Humidity                     | Less than 95% RH, no water condensation.                                                                       |
|                | Vibration                    | Less than 5.9 m/s <sup>2</sup> (0.6g)                                                                          |
|                | Storage temperature          | -20℃ ~ +60℃                                                                                                    |

## ■ Nameplate and Model



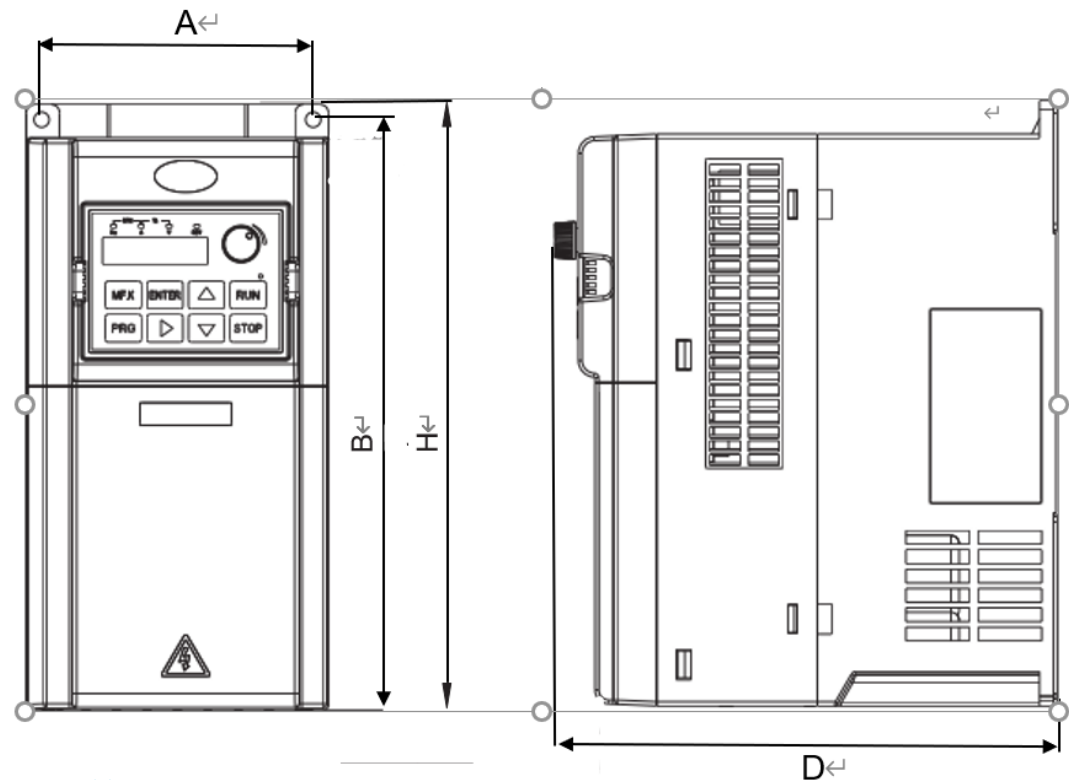
## ■ Model Selection For 220-380V

| Shell code | Model       | Overall dimension (mm) |     |     | Position bore (mm) |      | Weight (kg) |
|------------|-------------|------------------------|-----|-----|--------------------|------|-------------|
|            |             | H                      | W   | D   | A                  | B    |             |
| Z1         | C300-2T0.75 | 172                    | 92  | 152 | 81                 | 162  | 1.65        |
|            | C300-2T1.5  |                        |     |     |                    |      |             |
|            | C300-2T2.2  |                        |     |     |                    |      |             |
|            | C300-4T0.75 |                        |     |     |                    |      |             |
|            | C300-4T1.5  |                        |     |     |                    |      |             |
|            | C300-4T2.2  |                        |     |     |                    |      |             |
| Z2         | C300-4T4.0  | 219                    | 109 | 173 | 98                 | 208  | 2.4         |
|            | C300-4T5.5  |                        |     |     |                    |      |             |
| Z3         | C300-4T7.5  | 261                    | 130 | 182 | 119                | 250  | 3.8         |
|            | C300-4T11   |                        |     |     |                    |      |             |
| Z4         | C300-4T15   | 293                    | 190 | 199 | 167                | 282  | 6.6         |
|            | C300-4T18.5 |                        |     |     |                    |      |             |
| Z5         | C300-4T22   | 430                    | 274 | 245 | 200                | 390  | 14.6        |
|            | C300-4T30   |                        |     |     |                    |      |             |
| Z6         | C300-4T37   | 542                    | 300 | 300 | 266                | 473  | 27.8        |
|            | C300-4T45   |                        |     |     |                    |      |             |
| Z7         | C300-4T55   | 580                    | 338 | 340 | 270                | 560  | 48.3        |
|            | C300-4T75   |                        |     |     |                    |      |             |
| Z8         | C300-4T90   | 790                    | 420 | 366 | 310-               | 764  | 80          |
|            | C300-4T110  |                        |     |     |                    |      |             |
| Z9         | C300-4T160  | 1110                   | 490 | 370 | 360                | 1085 | 126         |
|            | C300-4T185  |                        |     |     |                    |      |             |
| Z10        | C300-4T200  | 1190                   | 650 | 370 | 520                | 1159 | 164         |
|            | C300-4T220  |                        |     |     |                    |      |             |
| Z11        | C300-4T250  | 1214                   | 520 | 366 |                    |      |             |
|            | C300-4T280  |                        |     |     |                    |      |             |
| Z12        | C300-4T315  | 1728                   | 970 | 388 |                    |      |             |
|            | C300-4T355  |                        |     |     |                    |      |             |
|            | C300-4T400  |                        |     |     |                    |      |             |
|            | C300-4T450  |                        |     |     |                    |      |             |
|            | C300-4T500  | 1728                   | 970 | 388 |                    |      |             |
|            | C300-4T560  |                        |     |     |                    |      |             |
|            | C300-4T630  |                        |     |     |                    |      |             |
|            |             |                        |     |     |                    |      |             |

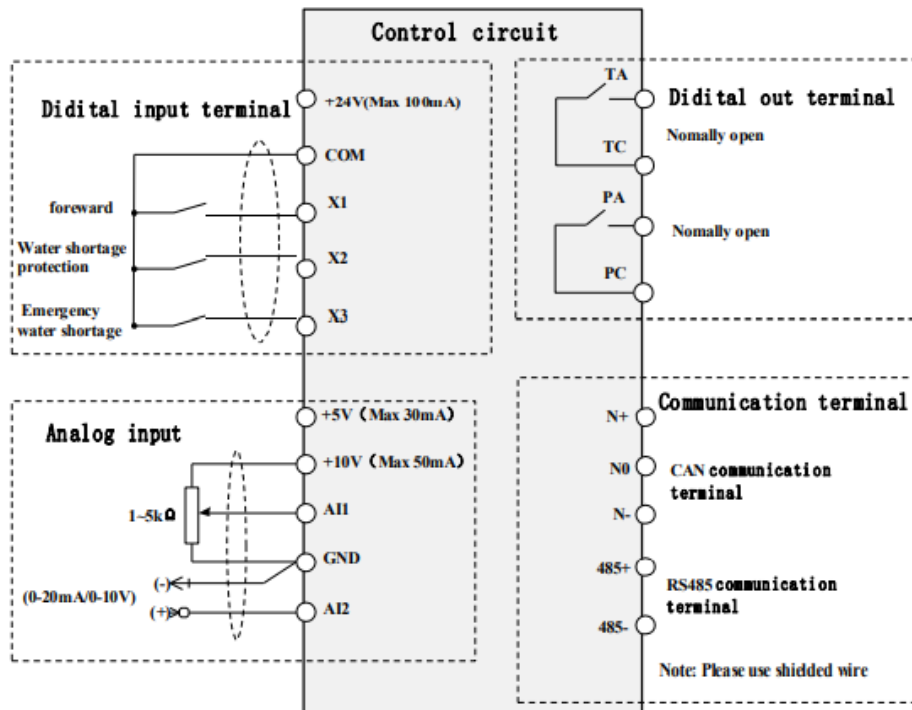


## ■ Model Selection For 450-480V

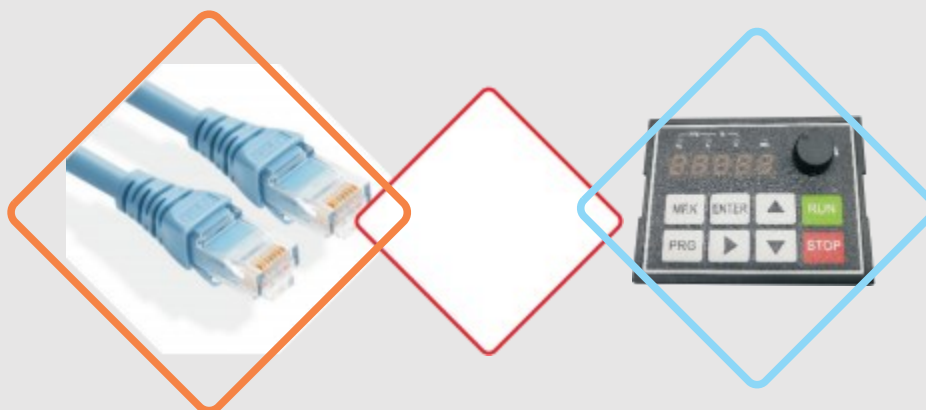
| Shell code | Model       | Overall dimension(mm) |      |     | Position bore (mm) |      | Weight (kg) |
|------------|-------------|-----------------------|------|-----|--------------------|------|-------------|
|            |             | H                     | W    | D   | A                  | B    |             |
| Z1         | C300-5T0.75 | 172                   | 92   | 152 | 81                 | 162  | 1.65        |
|            | C300-5T1.5  |                       |      |     |                    |      |             |
|            | C300-5T2.2  |                       |      |     |                    |      |             |
| Z2         | C300-5T4.0  | 219                   | 109  | 173 | 98                 | 208  | 2.4         |
|            | C300-5T5.5  |                       |      |     |                    |      |             |
|            | C300-5T7.5  |                       |      |     |                    |      |             |
| Z3         | C300-5T11   | 261                   | 130  | 182 | 119                | 250  | 3.8         |
|            | C300-5T15   |                       |      |     |                    |      |             |
| Z4         | C300-5T18.5 | 293                   | 190  | 199 | 167                | 282  | 6.6         |
|            | C300-5T22   |                       |      |     |                    |      |             |
| Z5         | C300-5T30   | 430                   | 274  | 245 | 200                | 390  | 14.6        |
|            | C300-5T37   |                       |      |     |                    |      |             |
| Z6         | C300-5T45   | 542                   | 300  | 300 | 266                | 473  | 27.8        |
|            | C300-5T55   |                       |      |     |                    |      |             |
| Z7         | C300-5T75   | 580                   | 338  | 340 | 270                | 560  | 48.3        |
|            | C300-5T90   |                       |      |     |                    |      |             |
|            | C300-5T110  |                       |      |     |                    |      |             |
| Z8         | C300-5T160  | 790                   | 420  | 366 | 310-               | 764  | 80          |
|            | C300-5T185  |                       |      |     |                    |      |             |
|            | C300-5T200  |                       |      |     |                    |      |             |
| Z9         | C300-5T220  | 1110                  | 490  | 370 | 360                | 1085 | 126         |
|            | C300-5T250  |                       |      |     |                    |      |             |
| Z10        | C300-5T280  | 1190                  | 650  | 370 | 520                | 1159 | 164         |
|            | C300-5T315  |                       |      |     |                    |      |             |
|            | C300-5T355  |                       |      |     |                    |      |             |
|            | C300-5T400  |                       |      |     |                    |      |             |
| z11        | C300-5T450  | 1214                  | 520  | 366 |                    |      |             |
| Z12        | C300-5T500  | 1728                  | 970  | 388 |                    |      |             |
|            | C300-5T560  |                       |      |     |                    |      |             |
|            | C300-5T630  |                       |      |     |                    |      |             |
| Z13        | C300-5T710  | 1843                  | 1120 | 415 |                    |      |             |
|            | C300-5T800  |                       |      |     |                    |      |             |



## ■ Wiring Diagram



## ■ Accessories



## ■ Net Pump



1. Automatically add or subtract water pump according to pressure;
2. Regular rotation of water pump, Ensure uniform service life of water pump;
3. If the water pressure is too low, it will stop automatically when the water pump runs to the fastest speed;
4. Any pump have Overcurrent, overvoltage, overheating, short circuit protection;  
High/low water pressure protection; Dry run and motor idling protection; Antifreeze protection; Reset function after water shortage.

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