

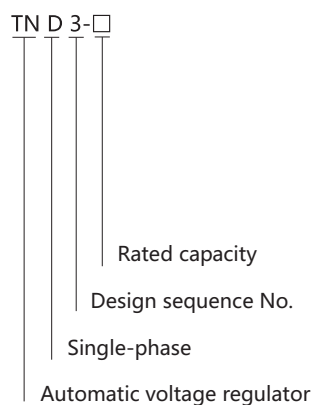


TND3 Automatic AC Voltage Regulator

1. General

Application: TND3 series automatic AC voltage regulator supplies power for equipment such as computers, duplicating machines, industrial precision equipment, medical apparatuses, household electrical appliances, etc.

2. Type designation



3. Operating conditions

- 3.1 Ambient temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$.
- 3.2 Relative humidity $\leq 90\%$ (at $+20^{\circ}\text{C}$).
- 3.3 Altitude: $\leq 2000\text{m}$.
- 3.4 Working environment: Indoors, be free from chemical deposition, dirt, harmful corrosive medium, or flammable or explosive gas.

4. Technical data

Model	TND3-3	TND3-5	TND3-7
Rated output capacity (kVA)	3	5	7
Range of rated input voltage (V)	160~250	160~250	160~250
Over load protective current (input) (A)	15	25	32
Rated output voltage (V)	220V Voltage stabilizing accuracy	±4%	±4%
	110V Voltage stabilizing accuracy	±8%	±8%
	Over-voltage protection	246±4V	246±4V
	Under-voltage protection	180±8V	180±8V
Delay time	Short delay	5±2s	5±2s
	Long delay	5±2min	5±2min

5. Features

- a. The voltage stabilizer can work uninterruptedly, with advantages of low waveform distortion, stable voltage regulation, no instantaneous power failure, it guarantees the safety and normal operation of top-grade household appliances and computers that with memory function, its accuracy of output voltage stabilization is 220V±4% adjustable.
- b. Novel style, elegant appearance:
The product adopts wall-mounted structure, which enables it to possess convenient installation and small space occupying area. The soft color and streamline outline seem to melt into modern
- c. Wide range of input voltage, strong load characteristic.
- d. Complete functions such as over-voltage and under-voltage indication and protection, long time delay, short time delay, etc.
- e. Utility power/ voltage stabilization switching function, direct utility power also is available if it is necessary.
- f. There are 220V and 110V two circuits for rated output voltage;
- g. Indication of input and output voltage.
- h. Carbon brush: It adopts the latest developed carbon brush that has high performance, which sharply prolongs the service life of voltage stabilizer.

6. Outline & installation size shown as fig.1 and table1

Fig.1 Outline & installation size diagram

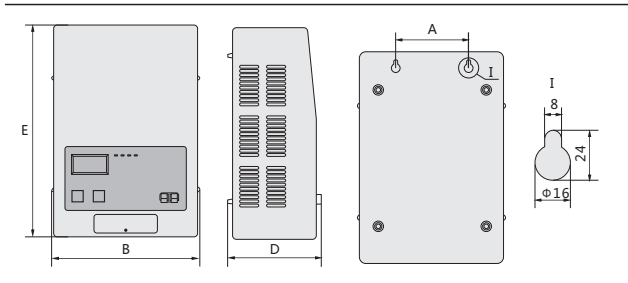


Table 1 Outline & installation size

Model & spec.	Outline size (mm)			Installation size (mm)	Net weight (kg)
	Bmax	Dmax	Emax	A±3	
TND3-3	265	170	400	135	11.2
TND3-5	285	795	440	135	14.4
TND3-7	285	185	440	135	22.5
TND3-10	445	200	310	135	28

7. Ordering information

- 7.1 When the loads are capacitive or inductive, as the load has heavy pickup current, please select the voltage stabilizer whose capacity is 2.5~3 times of load power.
- 7.2 When the input phase voltage is lower than 198V, the output capacity of voltage stabilizer will be reduced, then the loads should be reduced correspondingly, otherwise, it may be overloaded; when the output voltage is 110V, then the output capacity should not be beyond 50% of rated capacity, otherwise, it may be overloaded. Refer to fig. 2 for specific characteristics.

