

TND3 Automatic AC Voltage Regulator

1. General

Application: TND3 series automatic AC voltage regulator supplys 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°C~+40°C.
- 3.2 Relative humidity $\leq 90\%$ (at +20°C).
- 3.3 Altitude: ≤2000m.
- 3.4 Working environment: Indoors, be free from chemical deposition, dirt, harmful corrosive medium, or flammable or explosive gas.



TNDZ(DBW), TNSZ(SBW) Pillar Type AC Automatic Regulator with Compensated

1. General

Application: used in the application requiring stable voltage, such as telecommunication, broadcasting & TV, elevator, silicone controlled apparatus, numerical control machine tool, and various production lines, etc.

2. Type designation



3. Operating conditions

- 3.1 Temperature: -5°C~+45°C;
- 3.2 Altitude:≤1000m;
- 3.3 Relative humidity: 15%~90%(20°C).

4. Technical data

Model	Rated capacity (kVA)	Phase	Frequency (Hz)	Input voltage range	Rated output voltage	Accuracy of regulate voltage	The protect value of output over- voltage	The protect value of output under- voltage	Response time	Rated output current (A)
TNDZ(DBW)-20	20	1	50 60	176 264	220	±(1±5)%	242	198 ± 2.2	When input voltage steps 15V,the output response time≤1.5s	91
TNDZ(DBW)-30	30						± 2.2			136
TNDZ(DBW)-50	50									227
TNSZ(SBW)-30	30	3	50 ẽ0	304 456	380	±(1±5)%	418 ± 3.8	342 ± 3.8	When input voltage steps 25V,the output response time≤1.5s	46
TNSZ(SBW)-50	50									76
TNSZ(SBW)-75	75									114
TNSZ(SBW)-100	100									152
TNSZ(SBW)-150	150									228
TNSZ(SBW)-180	180									273
TNSZ(SBW)-200	200									304
TNSZ(SBW)-225	225									342
TNSZ(SBW)-250	250									380
TNSZ(SBW)-300	300									456
TNSZ(SBW)-320	320									486
TNSZ(SBW)-350	350									532
TNSZ(SBW)-400	400									608
TNSZ(SBW)-450	450									684
TNSZ(SBW)-500	500									760

Note1: It is no the function of output under voltage what eigibility item when normal regulations product ex-facture, unless the customer request.

Note2: If have other requires you can discuss with manufacture.Such as output voltage is 400V, or output voltage three-phase 220V, and the range of regulate voltage between ±3% can negotiate to order.

5. Features

- 5.1 When fault of phase sequence by power supply or maintenance of transformer, the voltage regulator will automatically check and adjust to ensure the normal working of the regulator.
- 5.2 Adoption of new technology can reduce contactors to increase the reliability of voltage regulator.
- 5.3 With over-voltage protection and alarming

When the voltage is stable, the input voltage is beyond the threshold(456V) or output voltage beyond the threshold(426V±7V), the voltage regulator will cut the power supply and alarm until the input and output voltage reduce to the normal value.

- 5.4 With the function of automatic start when power supply resumes.
- 5.5 With starting delay.

Model	Rated capacity	Overall dimensions (mm)	Net weight (kg)	
TND7/2014/0	20kVA	800×610×1380	200	
INDZ(DBW) single-phase	30kVA	800×610×1380	230	
<u>9</u> p	50kVA	Overall dimensions (mm) 800×610×1380 800×610×1380 800×610×1380 850×690×1450 750×610×1250 800×610×1375 850×690×1450 850×690×1450 1070×940×1740 1070×940×1740 1150×970×1900 1150×970×1900 1250×1020×2050 1250×1020×2050 1400×1070×2250	305	
	30kVA	750×610×1250	210	
	50kVA	800×610×1375	270	
TNSZ(SBW) three-ohase	75kVA	850×690×1450	320	
	100kVA	850×690×1450	390	
	150kVA	1070×940×1740	560	
	180kVA	1070×940×1740	625	
	200kVA	1150×970×1900	670	
	225kVA	1150×970×1900	720	
	250kVA	1150×970×1900	770	
	300kVA	1250×1020×2050	875	
	320kVA	1250×1020×2050	920	
	350kVA	1400×1070×2250	945	
	400kVA	1400×1070×2250	1045	
	450kVA	1400×1070×2250	1350	
	500kVA	1400×1070×2250	1400	

6. Specifications, overall dimensions and weights

7. Ordering information

7.1 Considering impact by inrush current, the safety coefficient should be 1.5-3 times. The safety coefficient is determined by the load.

7.2 This product should be connected to the natural line when the input and output circuit is three phase four line.

7.3 The capacity of single phase should be less than 1/3 of the product.