AMB Tronic
the power to lead

Server Telecom Industrial Network Hospitality Medical

TNSJA Series

» AC. Automatic Voltage Regulator/Stabilizer

Industrial-grade Oil-immersed Induction type AVR, Three Phase

Features

TNSJA series the 2nd generation Industrial Oil-immersed Induction(Brushless/Stepless) Voltage Stabilizer is composed of voltage regulator and transformer SSTS (including, oil tank, stator, rotor top Cover, drive control motor M, hand wheel, control circuit board and secondary circuit elements for voltage regulation control. It achieves the rotational voltage regulation through electric motor drive or hand wheel and gear coupling within the rotation range of 1000. Besides, it is provided with the electric SS limit and mechanical limit on the upper end of the oil tank. For electric SS limit, the power supply of motor is switched off by a limit switch and for the mechanical limit, the rotational limit is stopped by bolt protector. The stator winding and rotor winding are fixed by the base frame and put into the oil tank with 10 # transformer oil. When the load generates heat, the heat dissipates from the radiating pipe by the way of Oil-immersed cooling. The oil immersed voltage stabilizer has the functions of phase failure, phase loss, overvoltage and over-current protections, and its main circuit has the characteristics of contactless voltage regulation, no mechanical wearing, no spark, no interference and low failure rate. In addition, this voltage stabilizer has the advantages of high impact resistance, super strong instantaneous overload capacity, long service life and maintenance free.

★ Stepless voltage adjustment (brushless)
With inductive and contactless voltage regulation, the voltage stabilizer can increase and decrease the load voltage linearly.

★ Excellent features
By using high-magnetic-inductivity silicon steel sheet made in Japan, this voltage stabilizer minimizes the no-load loss and no-load current, and with its performance utilized best, reduces power loss.

★ Robust, durable and long life expectancy
The internal body of this voltage stabilizer is induction voltage regulator IVR, containing no carbon brush and its main characteristics are permanent wear-proof, robust and long service life.

★ Efficiency >98%, with no waveform distortion.

Applications

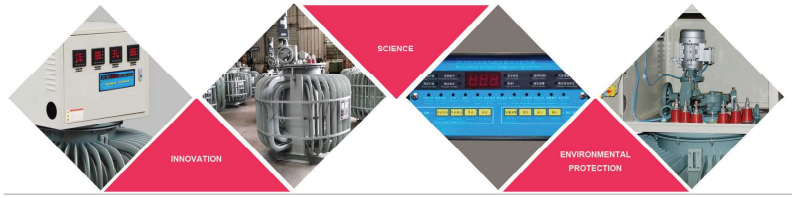
Widely used in Industry, Traffic, Defense, Rail Ways, Large machine tool, Metal Processing Equipments, Production Line, Air Conditioner, Broadcast Television, Building Lighting Equipment and other Equipments which need stable voltage, and are highly suitable to the equipments which needs high reliable and high stable power supply, or equipments in high amplitude of fluctuation voltage net.

Main Technical Datas

Phase No.	Three-phase four wire system
Input voltage	Phase voltage: 220V±20%(176~264V), line voltage: 380V±20%(304~456V)
Output voltage	380VAC
Output precision	±1~5% adjustable (factory set value: ±2%)
Frequency	50Hz/60Hz
Efficiency	>98%
Response time	≤0.5sec.
Ambient temperature	-10℃~+40℃
Relative humidity	<95%
Dielectric strength	5000V/1min.
Insulation resistance	≥20MΩ
Waveform distortion	<3%
Temperature rise	≤65℃
Noise	<65dB
Cooling way	Oil-immersed, self-cooled
Display	Microcomputer Intelligent Controller
Working mode	Continuous
Protection	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.

Note: The above specifications are based on 380VAC/3Phase, for 3Phase 220V/230V/400V/415/440VAC etc. can be customized.

Craft Images



◆ All specifications subject to change without notice.

Order Specifications

50KVA/75KVA/100KVA

Input voltage	380V±20%	Ambient temperature	-10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	90 × 90 × 170
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

150KVA/200KVA/250KVA

Input voltage	380V±20%	Ambient temperature	-10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	90 × 90 × 170
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

300KVA/400KVA

Input voltage	380V±20%	Ambient temperature	-10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	105 × 105 × 170
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

500KVA

Input voltage	380V±20%	Ambient temperature	-10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	110 × 110 × 200
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

◆ Custom-made specifiacations are acceptable

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600KVA

Input voltage	380V±20%	Ambient temperature	–10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	110 × 110 × 200
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

700KVA

Input voltage	380V±20%	Ambient temperature	–10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	110 × 110 × 200
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

800KVA

Input voltage	380V±20%	Ambient temperature	–10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	110 × 110 × 190
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

1000KVA/1250KVA

Input voltage	380V±20%	Ambient temperature	–10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	110 × 110 × 190
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

1600KVA

Input voltage	380V±20%	Ambient temperature	–10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	130 × 130 × 220
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

1800KVA/2000KVA

Input voltage	380V±20%	Ambient temperature	–10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	130 × 130 × 220
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

2500KVA

Input voltage	380V±20%	Ambient temperature	–10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	130 × 130 × 220
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

3000KVA

Input voltage	380V±20%	Ambient temperature	–10℃ ~ +40℃
Output voltage	380V	Efficiency	> 98%
Accuracy of voltage	±1~5%(adjustable)	Temperature rise	3000V/60s
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	≤0.5s	Package size W × D × H(cm)	130 × 130 × 220
Insulation resistance	≥20MΩ	Qty per pkg(unit)	1
Protection function	With over-voltage, under-voltage, phase failure, machine fault, oi-immersed self-cooled. auto. recovery etc, protection functions.		

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