

Comprehensive Stator Vacuum Test Scheme AN8321(F)

Product Introduction

This product is suitable for the inter-turn isoelectric performance test of various types of motor stators under vacuum negative voltage up to -99kPa, widely used in air conditioners, refrigerator compressor stators, automobile motor stators, brushless stators and other industries.

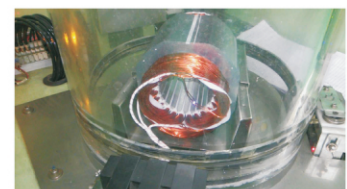
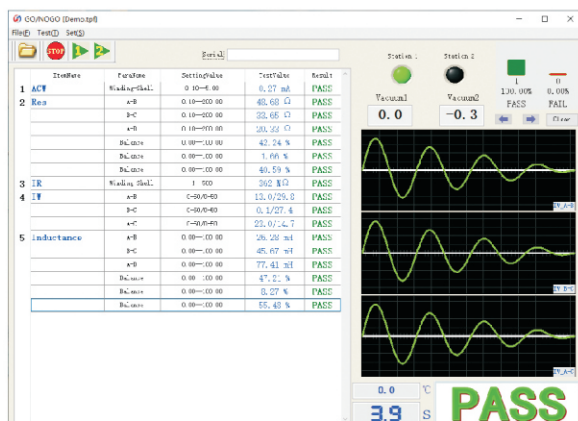
Features

- Vacuum:** free setting of vacuum between 0~-99kPa (0~-742.5Torr).
- High efficiency:** Custom double-station serial/parallel test system. The four tests of turn-to-turn and withstand voltage can be completed within 5.9 seconds, up to 10,000 pieces/day.
- High performance:** voltage regulation, insulation, turn-to-turn and other voltage adjustments using closed-loop voltage feedback adjustment system to accurately control the voltage regulation and rising process, stable voltage output.
- Intelligent:** intelligent self-check, remote diagnosis and online upgrade, quick location of problems and eliminating.
- Multi ports:** USB, RS232, LAN and other ports, PLC simulation, TCP/IP network protocol, etc., to facilitate data interaction and instrument control.

Test items

- Stator:** withstand voltage, insulation, resistance, interturn, inductance, rotation.

Test cases



Specifications

General parameters of AN8321(F) series			
Application industries		Air conditioner compressor stator, refrigerator compressor stator, automotive electronic stator, brushless motor stator, etc.	
Model of product		AN8321(F)	Custom parameters
Withstand voltage test	Output voltage	Range: 300 ~ 3000 VAC, step: 10V	5000 VAC
		Allowable error: $\pm (2.5\% \times \text{setting} + 10V)$	
	Break down current	Range: 0.10~20.00 mA	100 mA
		Allowable error: $\pm (2.5\% \times \text{reading} + 5 \text{ words})$	
	Duration	Range: 1.0~99.9s, allowable error: $\pm (1\% \times \text{setting} + 0.1s)$	
Insulation test	Output voltage	Range: 200 ~ 1000 VDC, step: 5V	
		Allowable error: $\pm(3\% \times \text{setting} + 5V)$	
	Ripple coefficient	<5%	
	Resistance measurement	Range: 1.0~500M Ω	
		Allowable error: $\leq 200M\Omega$, $\pm(3\% \times \text{reading} + 5 \text{ words})$	
		>200M Ω , $\pm(5\% \times \text{reading} + 8 \text{ words})$	
	Duration	Range: 1.0~99.9s, allowable error: $\pm (1\% \times \text{setting} + 0.1s)$	
Resistance test	Test and measurement	Range: 0.1~20k Ω , unit: Ω	1m Ω ~400K Ω 1m~400K Ω
		Allowable error: $\pm(0.3\% \times \text{reading} + 3 \text{ words})$	
	Temperature measurement	(0.0~60.0) $^{\circ}\text{C}$, allowable error: $\pm 0.5^{\circ}\text{C}$	
Interturn test	Pulse voltage	Range: 300~3000 V, step: 100V	5000 V
		Allowable error: $\pm(3\% \times \text{setting} + 10V)$	
	Wavefront time	$\leq 0.5\mu\text{s}$	
	Acquisition frequency	5kHz~40MHz	
	Wave parameters	Area, difference area, (1~10) consecutive impacts; range: 0~99%	
Inductance test	Test range	0.0001 μH ~99.99kH	
	Allowable error	0.5%	
	Test frequency	100Hz, 120Hz, 1kHz, 10kHz	
	Test level	0.1, 0.3, 1.0 (V)	
Rotation test	Decision parameter	CW/CCW/None	