# Comprehensive Coil/Stator Test Scheme
## AN8351(F)

## Product Introduction

This product is suitable for static testing of various types of coils/stators, widely used in the testing of coils and stators of electric vehicles, shaded pole motors, universal motors, asynchronous motors, tubular motors, linear motors, and automated production lines.

## Features

▌ Efficient: complete performance testing in one connection, automatic storage of test data.

▌ Compatible: six-in-one test items such as withstand voltage, insulation, resistance, and turn-to-turn.

▌ 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.

▌ Module: Module test unit to avoid interference, and customize single/multi-station, serial/parallel test system as required.

▌ Intelligent: intelligent self-check, remote diagnosis and online upgrade, quick location of problems and eliminating.

▌ Easy maintenance: plug-in design, convenient for disassembly; intelligent self-check, remote diagnosis, online upgrade and other flexible settings, quick location of problems.

## Test items

▌ Stator: withstand voltage, insulation, resistance, resistance balance, interturn, inductance, rotation.

## Test cases

## Specifications

| General parameters of AN8351(F) series | | | |
|---|---|---|---|
| Application industries | | Various types of coils and stators | |
| Model of product | | AN8351(F) | Custom parameters |
| Withstand voltage test | Output voltage | Range: 300 ~ 3000 VAC, step: 10V | 5000 VAC |
| | | Allowable error: ± (2.5% x setting +10V) | |
| | Break down current | Range: 0.10~20.00 mA | 100 mA |
| | | Allowable error: ± (2.5% x reading +5 words) | |
| | Duration | Range: 1.0~99.9s, allowable error: ± (1% x setting +0.1s) | |
| Insulation test | Output voltage | Range: 200 ~ 1000 VDC, step: 5V | |
| | | Allowable error: ±(3% x setting +5V) | |
| | Ripple coefficient | ＜5% | |
| | Resistance measurement | Range: 1.0~500MΩ | |
| | | Allowable error: ≤200MΩ, ±(3% x reading +5 words) | |
| | | ＞200MΩ, ±(5% x reading +8 words) | |
| | Duration | Range: 1.0~99.9s, allowable error: ± (1% x setting +0.1s) | |
| Resistance test | Test and measurement | Range: 0.1~20k Ω, unit: Ω | |
| | | Allowable error: ±(0.3% x reading +3 words) | 1mΩ～400KΩ |
| | Temperature measurement | （0.0～60.0）℃, allowable error: ±0.5℃ | |
| Resistance balance | Calculation formula | \|Resistance -Resistance average\|/Resistance average*100% | |
| | Display range | 0.0％～99.9％ | |
| Interturn test | Pulse voltage | Range: 300~3000 V, step: 100V | |
| | | Allowable error: ±(3% x setting +10V) | 5000 V |
| | Wavefront time | ≤0.5µs | |
| | Acquisition frequency | 5kHz~40MHz | |
| | Wave parameters | Area, difference area, (1~10) consecutive impacts; range: 0~99 | |
| Inductance test | Test range | 0.0001µH-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 | |