

QST-2A1 stator integrated tester
定子综合测试台

This machine is applied to test varieties of iron stator like pump motor, air-conditioning motor, washing machine motor, paper shredder motor, servo motor and stepper motor etc. Its LCD shows all technical data which obtained by industrial control computer, which check and verify the quality of testing stator.

本检测设备适用于各类水泵、空调电机、洗衣机、碎纸机、伺服电机、步进电机等等铁壳定子之综合测试，采用工业控制计算机，自动检查判定试品定子之良否，测试数据显示于液晶显示器上。

Machine specification:

1. AC withstand voltage test

1). Testing voltage range: AC100~2800V

2). Voltage adjusting mode (-M: Manual adjust.-A: Auto adjust)

a). Manual adjust: manual no-step adjust

b). Auto adjust: input testing voltage to the software, thus machine do automatic loading to the setting value through the test.

3). Voltage precision: $\pm 3.0\%$

4). Capacity: 500VA

5). Leakage current setting: 5 steps (0.5/1/2/5/10mA), precision: $\pm 1.0\%$

6). Voltage load mode: between winding and core.

(7) OK/ Reject verify way: goods of its leakage current value higher than setting value is taken as reject. The software will give acousto-optic alarm accordingly.

设备规范:

1、交流耐压测试

(1) 测试电压范围: AC100~2800V。

(2) 电压调节方式 (—M 为手动调压、—A 型为自动调压)

(a) 手动调节: 手动无段调节。

(b) 自动调节: 软件中输入测试电压, 测试时自动加载到设定值。

(3) 电压精度: $\pm 3.0\%$ (4) 容量: 500VA

(5) 泄露电流设定: 0.5/1/2/5/10mA 五段设定, 精度: $\pm 1.0\%$

(6) 加压方式: 线圈与铁芯之间

(7) 合格/不合格品判定方法: 当泄露电流高压泄露电流设定值时, 判定为不良品, 并由测试软件输出为声光报警。

2. Insulation resistance test

1). Testing voltage: DC500V

2). Testing range: 10~500M Ω

3). Integrated accuracy: $\pm 5.0\%$

4). Voltage load mode: between coil and iron core.

(5) OK/ Reject verify way: manual setting the low limit of insulation resistance, when the goods of its insulation resistance value lower than setting value is taken as reject. The software will give acousto-optic alarm accordingly.

2、绝缘电阻测试

(1) 测试电压: DC500V

(2) 测试范围: 10~500M Ω

(3) 综合精度: $\pm 5.0\%$

(4) 加压方式: 线圈与铁芯之间

(5) 合格/不合格品判定方法: 手动设定绝缘电阻下限值, 当绝缘电阻低于设定下限, 判定为不良品, 并由测试软件输出为声光报警。

3. Cold resistance test

1). Testing range:

(a) 0.001-9.999 (resolution 0.100 u Ω).

(b) 1.000-99.99 (resolution 0.010 m Ω)

(c). 100.0~999.9(resolution 0.100 m Ω)

2). Precision: $\pm 0.5\%$ auto temperature compensate, could be calculated to resistance value at 20 $^{\circ}\text{C}$

3). Testing way: between winding and winding

(4) OK/ Reject verify way: Program reads the testing value of winding and verify ok/reject by comparison of upper and low reference value. The software will give acousto-optic alarm accordingly.

3、冷态电阻测试

(1) 测试范围:

(a) 0.001~9.999 (分辨率 0.100u Ω) (b) 1.000~99.99 (分辨率 0.010m Ω)

(c) 100.0~999.9 (分辨率 0.100m Ω)

(2) 精度: $\pm 0.5\%$ 自动温度补偿, 可换算至 20 $^{\circ}\text{C}$ 时电阻值。

(3) 测试方法: 绕组与绕组之间

(4) 合格/不合格品判定方法: 由程序读取绕组测试值, 与上下限基准值做比较判定, 不合格时程序声光报警。

4. Inter turns insulation test

1). Testing voltage range: 100V~2800V

2). Voltage Precision: $\pm 3\%$

3). Voltage adjusting mode (-M: manual adjust voltage, -A: auto adjusting voltage).

a). Manual adjust: manual no-step adjust

b). Auto adjust:: input testing voltage to the software, thus machine do automatic loading to the setting value through the test.

4). Pulse rise time: 1.2 μ s

5). Verify way: $\Delta s/s$ $\Delta f/f$

6). Voltage load mode: irrespective test each winding

7) OK/Reject verify way: Program reads the standard value of wave between turns, compare the testing wave to standard wave. The software gives acousto-optic alarm if beyond setting value.

4、匝间绝缘测试

(1) 测试电压范围: 100V~2800V (2) 电压精度: $\pm 3\%$

(3) 电压调节方式 (—M 为手动调压、—A 型为自动调压)

(a) 手动调节: 手动无段调节

(b) 自动调节: 软件中输入测试电压, 测试时自动加载到设定值。

(4) 脉冲上升时间: 1.2 μ s (5) 判别方式: $\Delta s/s$ $\Delta f/f$ 判别

(6) 加压方式: 各绕组分别测试

(7) 合格/不合格品判定方法: 由程序读取匝间波形之标准值, 测试波形与标准波形之比较, 超过设定值程序声光报警。

5. Stator rotation test

1). Testing voltage range: 220VAC/380VAC (selective)

2). Voltage adjust mode: 220VAV manual adjust.

3). Verify way: CW, CCW or stop

4). Voltage load mode: Main phase and high gear

5) OK/ Reject verify way: Program reads stator rotation direction. The goods in opposite direction to the setting direction is taken as reject. The software will give acousto-optic alarm when over setting value accordingly.

5、定子转向测试

(1) 测试电压范围: 250VAC/380VAC (两种方式可选择)

(2) 电压调节方式: 250VAV 手动调压 (3) 判别方式: 正转、反正、或不转

(4) 加压方式: 主相与高档

(5) 合格/不合格品判定方法: 由程序读取定子转向方向, 与设定方向不吻合判定为不合格品, 程序声光报警。

Main feature:

1) .All test items of electrical performance are done automatically at one time fast.

2) .Each test items could be on or off randomly. Approval standard also could be set up randomly. The machine will give acousto-optic alarm for reject stator.

3) .Do auto compensation to ambient temperature. It ensures test accuracy.

4) .Single working station/ 2 working stations (selective), high test efficiency and perfect use

5) .Withstand voltage and inter turns voltage adjustment could be operated in manual mode or auto mode.

6) .Systems switch device is made of imported high pressure vacuum steel spring relay, withstand voltage is 10000V, working test 100 million times

7) .Item program could be done according to the test requirement by customers.

8) .It could save, edit, transfer each test standard.

重要特点

- 定子全部电气性能测试项目一次性高速自动完成;
- 各检测项目可任意开通或屏蔽, 并可任意设定判定的合格标准, 遇检测结果数据超标自动声光报警;
- 环境温度自动补偿, 确保测试精度;
- 单工位 / 双工位可选, 极高的实用性及测试效率;
- 耐压和匝间电压调节可选择手动或自动调节方式;
- 系统切换部分采用进口高压真空钢簧管继电器, 耐压壹万伏, 工作测试壹亿次;
- 客户可以根据测试要求自动进行项目编程;
- 可存储、编辑、调用各种型号规格定子自动检测数据标准。