



# SKF Static Motor Analyzer Baker AWA-IV

## Quick Start Card

### Ensure safe operation

#### WARNING

Be sure to comply with all safety procedures prescribed by your organization, industry, and governing standards. Failure to heed safety precautions can result in injury or death from severe electrical shock.

Refer to the Baker AWA-IV User Manual for complete safety information.

Additionally, you should acquaint yourself with the user interface elements so you can more easily navigate the software during testing.

Ensure that all power and cable connections are properly made before and during testing.

### Recommended testing sequence

Perform a sequence of progressively more rigorous tests.

If a test fails, troubleshoot, diagnose, and repair the problem before continuing with the next test in the sequence. The following tests will run automatically in sequence:

**Temperature entry**—If temperature is enabled for temperature/resistance tests, the *Temperature/Resistance* dialog will appear so the temperature reading can be entered. Temperature is collected using a third-party device.

**Resistance**—If the readings pass per the requirements of the Test ID, the *Temperature/Resistance* dialog will close. If low-voltage leads were used, a dialog will appear instructing you to switch to the high-voltage leads.

**MegOhm**—This test starts by ramping up test leads to the pre-programmed voltage. This voltage will be held for 60 seconds during which the analyzer watches for overcurrent conditions and micro-arcs or insulation resistance values below the minimum megohm setting. If a failure is detected, all testing will stop, and the leads will be discharged and grounded. You will be given the choice to repeat the test, stop all testing, or continue to the next test.

**PI/DA**—If the Test ID was set up for a Dielectric Absorption (DA) test, the duration of the test will be three minutes (180 seconds). The PI test duration is 10 minutes (600 seconds). At end of the PI/DA test, if no failures occur the PI/DA dialog will close, and the analyzer will continue with the next test.

**DC HiPot/Step Voltage**—During this test, the voltage will be ramped to the target test level. If the analyzer detects a low megohm reading or an overcurrent condition, testing will immediately stop, and the leads will be discharged and grounded. You will be given the choice to repeat the test, stop all testing, or continue to the next test. If no failures are found during the DC HiPot/Step Voltage test, the analyzer will continue to the next test.

**Surge**—The Surge test screen will be displayed and the voltage will be slowly increased on lead 1 to the voltage specified in the Test ID. If no pulse-to-pulse EAR failures are detected, lead 2 and lead 3 will be tested.

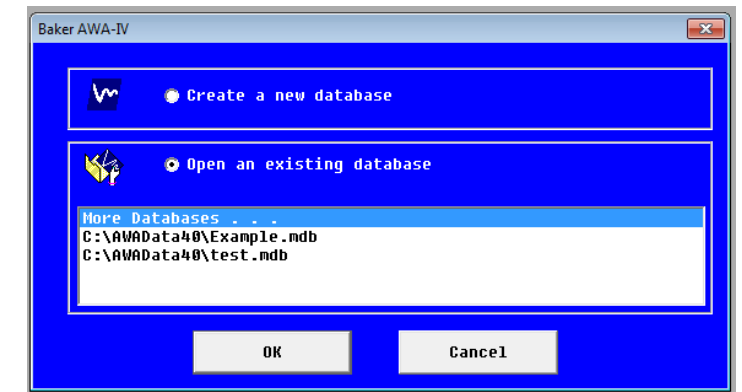
At the end of the sequence, the test data will automatically be saved to the database and the main test screen will re-appear.

Tests can also be run individually from the **Test** tabs, or they can be run manually using the controls on the tester's front panel.

### Basic testing process

#### Creating or opening a database

- 1) Start the Baker AWA-IV application by clicking on the icon on the tester screen or the MS Windows Start button.
- 2) Use the dialog box to create a new database or open an existing one.
- 3) Click **OK** to continue.

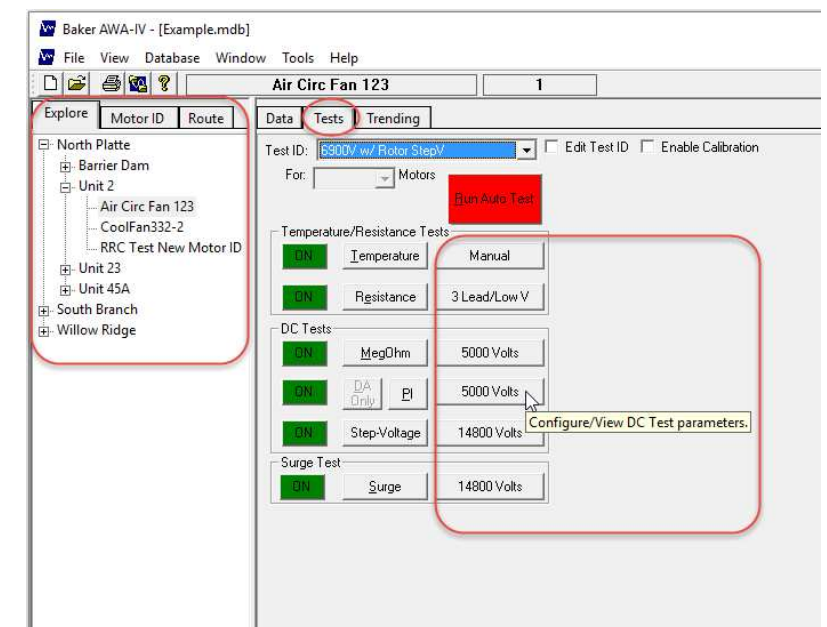


#### Selecting a motor to test

The left side of the screen is used to locate motors stored in the opened database. Three methods can be used:

- The **Explore** tab uses a tree view to show the motor location.
- The **Motor ID** tab provides an alphabetical list of Motor IDs. Typing the first few characters filters the list of IDs to facilitate location.
- The **Route** tab provides a predefined lists of motors.

Locate the motor needed using any of these tabs, then click on the motor to select it for testing. (The process for creating a new motor is on the next page.)



#### Running an automatic test

After selecting a Motor ID, a fully automatic test series can be run. Automatic tests analyze the motor in the recommended sequence.

- 1) Click on the **Tests** tab to get to the main testing screen.
- 2) Click on the **Config/View** parameters buttons to confirm test parameters are properly set for the motor you will be testing.
- 3) To start the test, click on the red **Run Auto Test** button and follow the directions provided. The software will automatically run all selected (On) tests.
- 4) The *Safe To Turn On* dialog appears when a high-voltage test is selected. Typically, it instructs you to verify that the correct set of leads have been properly connected; however, the content of the dialog can vary depending on your tester configuration.
- 5) Follow the instructions in the dialog to continue the testing process. As noted earlier, when all tests have been run, the test data will automatically be saved to the database and the main test screen will re-appear.

#### NOTE

For additional details on test leads and connections, running tests, reviewing test results, printing reports, and more refer to the *Baker AWA-IV Quick reference guide* or the *Baker AWA-IV User manual*.

