



## Condition Calculator Software for the AT31™ Motor Circuit Analysis Instrument

### Easy-to-Use User Interface

- Single page for both Data Entry & Analysis
- Simply type in and store your test results quickly
  - Motor ID, Test Date, Phase Test Results, plus enter results from the AT31's unique rotor test, EMI Test and phase balance test!

Condition Calculator 4.0

### ALL-TEST Condition Calculator

Motor ID:  Sort by ID  Sort by Date

Test Date:  Saved Records

	T1-T2	T1-T3	T2-T3	Conclusion
Impedance (Z)	<input type="text" value="26"/>	<input type="text" value="26"/>	<input type="text" value="28"/>	<input type="text" value="5.00"/>
I / F	<input type="text" value="-41"/>	<input type="text" value="-42"/>	<input type="text" value="-44"/>	<input type="text" value="3.00"/>
Phase Angle (fi)	<input type="text" value="71"/>	<input type="text" value="71"/>	<input type="text" value="74"/>	<input type="text" value="3.00"/>
Phase Balance (pb)	<input type="text" value="0"/>	<input type="text" value="4"/>	<input type="text" value="7"/>	<input type="text" value="7.00"/>

Insulation Resistance:  MegOhm  
Test Volt:  500V  1000V  
High Low

EMI Test:   mV  
Test Frequency:   
Rotor Test Passed:   
Rotor Compensated:

**Findings**  
- Shorted Winding.  
- Recommend check at motor if tested from MCC.

ABC9 [2006-10-18]  
FAN1 [2007-09-28]  
XYZ123 [2007-10-18]

Test Clear Save Delete  
Print About Exit



## Easy-to-Read Report

- Report shows Test Values & Findings
  - Findings will state condition of the 3-phase winding
  - Report lists phase unbalances for user review
  - Easy to read report format

Condition Calculator - Report

- 1 -

October 22, 2007 10:34 AM

```

Motor ID:      FAN1
Test Date:    2007-09-28

                T1-T2      T1-T3      T2-T3
Impedance:      26         26         28         5.00
I / F      :    -41        -42        -44         3.00
Phase Angle:    71         71         74         3.00
Phase Balance:  0          4          7          7.00
Insulation:    500 MegOhm
Test Volt :    500V

                High      Low
EMI Test  :

Test Freq :    200
Rotor Test:  Not Tested
Rotor Comp:  FALSE

Findings: - Shorted Winding.
          - Recommend check at motor if tested from MC

```

## Data Export

- Via Comma Separated Variable File (.csv)

A	B	C	D	E	
MotorId	TestDate	z1	z2	z3	if1
XYZ123	10/18/2007	45	45	45	
ABC9	10/18/2006	65	67	69	
FAN1	9/28/2007	26	26	28	

Condition Calculator makes it a Breeze to analyze potential faults. Enter the test results into your PC and it gives you an answer every time!

For more information contact your local ALL-TEST Pro distributor or representative. You can also contact us direct at 860-399-4222 or Email [info@alltestpro.com](mailto:info@alltestpro.com).