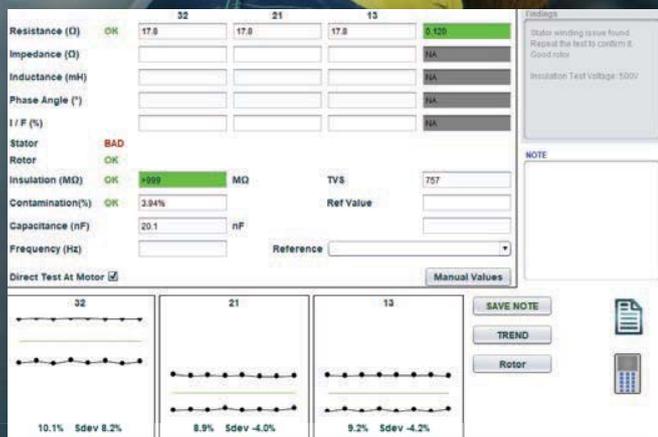


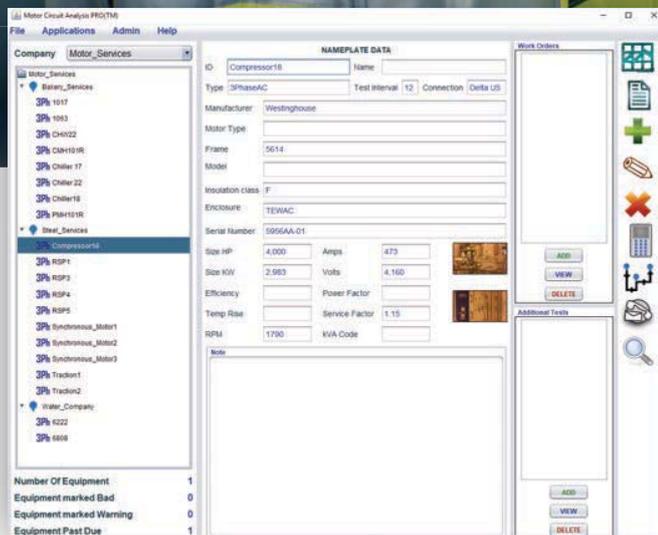
MOTOR CIRCUIT ANALYSIS™ (MCA™) SOFTWARE

ALL-TEST PRO 7™ | ALL-TEST PRO 7™ PROFESSIONAL

ALL-TEST PRO 34™



Manage, track, trend, and report on your plant's motor maintenance.



- Motor Circuit Analysis™ (MCA™)
- Patented Test Value Static™ (TVS™)
- Patented Dynamic Stator and Rotor Signatures

ALL-TEST Pro's MCA™ Software Suite enables analysis, quality control, troubleshooting, and predictive maintenance for complete deenergized motor testing. This software integrates seamlessly with the **AT7™**, **AT7™ PROFESSIONAL**, **AT34™** and **AT5™** to create a complete analysis package for monitoring and maintaining electric motors.

FAST AND ACCURATE MOTOR TESTING ANYTIME, ANYWHERE.

PRELIMINARY

MOTOR CIRCUIT ANALYSIS™ (MCA™) SOFTWARE

ALL-TEST PRO 7™ | ALL-TEST PRO 7™ PROFESSIONAL
ALL-TEST PRO 34™



MCA™ software enables you to manage your plant's motors on an expansive scale. By tracking, trending and reporting on the condition of your plant's motor maintenance, you will be able to reduce unproductive downtime, avoid unforeseen repair costs, and maximize the productivity of your maintenance team.



Our MCA™ software's intuitive analytics take the **guesswork out of interpreting** test results, including **built-in diagnostic algorithms** and **trending** as well as seven options for thorough, **flexible report types**. The software's comprehensive database provides **quick, easy access to all testing data**, organizing nameplate information and individual test results for all of your motors and transformers.

PATENTED TECHNOLOGY

Motor Circuit Analysis (MCA)™

Rapid evaluation of the entire motor circuit. A deenergized non-destructive test method to assess the health of a motor from the Motor Control Center (MCC) or directly at the motor. Immediate and complete information on the status of the Stator, Rotor, Connections, Contamination, and Insulation to ground.

Patented Dynamic Stator and Rotor Signatures

Used to evaluate the condition of the stator and squirrel-cage rotor in a single test. Perfect for testing new and repaired motors prior to acceptance.

Patented Test Value Static (TVS)™

TVS is a sum calculated from the 3-phase MCA™ static test and is used as a reference value for the motor. Common types of faults in the rotor and stator windings will change TVS™.

MOTOR CIRCUIT ANALYSIS™ (MCA™) SOFTWARE

ALL-TEST PRO 7™ | ALL-TEST PRO 7™ PROFESSIONAL
ALL-TEST PRO 34™



It's time for your facility to predict and manage motor failures before they happen.

MCA™ SOFTWARE

Comprehensive Database

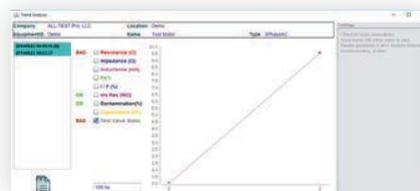
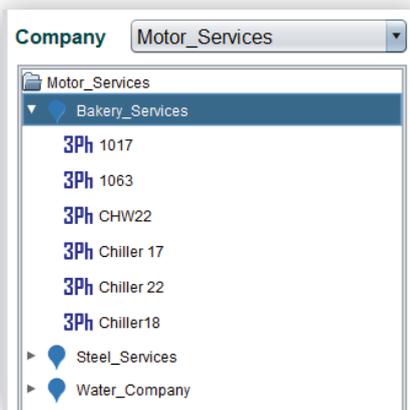
The heart of the MCA™ software is a database that collects and organizes the nameplate information and individual test results from all of your motors and transformers. A powerful, integrated search functionality enables access to data across all companies and locations by motor voltage, horsepower/kW, RPM, etc.

Motor Trending for Predictive Maintenance

All measurements can be trend-graphed for condition monitoring. Increasing unbalances give you advance notice of deteriorating conditions. Planning for repairs and avoiding unscheduled downtime saves you money and time in the long run.

Motor Diagnostics for Troubleshooting

MCA™ software applies proprietary algorithms and automatically diagnoses likely motor faults, taking the guesswork out of interpreting test data. It also provides a tabular and graphic view of the results for easy understanding.



Parameter	Value	Status
Resistance (Ω)	18.8	Bad
Impedance (Ω)	234	OK
Inductance (mH)	271	OK
Phase Angle (°)	70.9	OK
WFF (%)	-42.2	OK
Insulation (MΩ)	100	OK
Capacitance (%)	3.75%	OK
Capacitance (pF)	28.2	OK
Frequency (Hz)	100	OK

Evaluate New and Repaired Motors for Quality Control

Motor nameplate information is not required to evaluate the condition of the motor. Acceptance testing means that YOU are in control of your motors program. The first test provides the baseline for future comparison.

Scheduling and Review

Review motors to be tested by date, trend condition, or what is currently in alarm. You can even record test results from infrared and other technologies.

Manage Assets by Location

Records can be grouped by building/process for manufacturing sites, and customer name/location for service organizations. At a glance, the user can quickly identify equipment marked Bad, Warning, or Testing Past Due.

MOTOR CIRCUIT ANALYSIS™ (MCA™) SOFTWARE

ALL-TEST PRO 7™ | ALL-TEST PRO 7™ PROFESSIONAL

ALL-TEST PRO 34™



MCA™ SUITE OFFERINGS

MCA Basic™ Software

- Comes standard with the ALL-TEST PRO 7™ and ALL-TEST PRO 34™
- AT7™ - single & 3-phase AC motor testing
- AT34™ - 3-phase AC motor testing

Equipment	Device	Type	3PhaseAC	T13
Name	Test Motor	Motor Type	AC Induction	Connection Delta US
Manufacturer ABB				
Model				
Serial No.				
Size HP	0.300	Amps	1.20	Ins. Class
Size kW		Volt	200	Enclosure
Efficiency		Power Factor		Frame
Temp Rise		Service Fact		
IPRA	3060	KVA Code		
20180225-18:03:37				
Resistance (Ohm)	OK	22	21	13
Impedance (Ohm)		17.8	17.8	0.120
Inductance (mH)				NA
Phase Angle (°)				NA
I/F (%)				NA
Stator	OK			
Rotor	OK			
Insulation (MChm)	OK	+999		TVS Ref Value 757
Contamination(%)	OK	3.94%		Frequency
Capacitance (pF)		20.1		Direct Test at Motor
Findings:	Stator winding issue found. Repeat the test to confirm a Good rotor.			
	Insulation Test Voltage: 500V			

MCA PRO™ Software for AT7™ PROFESSIONAL

- Comes standard with the ALL-TEST PRO 7™ PROFESSIONAL
- Single and 3-phase AC motor testing
- Series, shunt, and compound wound DC motor testing
- Transformer testing
- Individual coil testing (test and compare up to 4 coils)
- Unique Rotor Grading System (RGS)
- Create unlimited 'routes' and maintenance schedules for predictive maintenance and condition monitoring
- Routes can maintain up to 100 pieces of equipment, scheduled for testing.
- Create, update, and print work orders within the system

MCA PRO™ Enterprise Software

- All the features and functions of MCA™ PRO + multiple user accessibility
- 2, 5, 10, & 25 user licenses available
- Remotely analyze and generate reports
- Shared database to view individual motor history from multiple sites
- Easily determine reliability and quality of motor vendors
- Install onto as many client computers as needed. The number of concurrent users is limited to the number of purchased user licenses

REPRESENTED BY

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The ALL-TEST Pro Promise

ALL-TEST Pro delivers on **the promise of true predictive maintenance and troubleshooting**, with innovative diagnostic tools, software, and support that enable you to keep your business running. We ensure the reliability of motors in the field and help to maximize the productivity of maintenance teams everywhere, backing every ALL-TEST Pro product with unmatched motor testing expertise.

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Version 1 - Specifications are subject to change without notice.