FAQs for AMT Toolkit and Service

What is AMT Toolkit?

Artesis AMT Toolkit is a portable motor driven equipment test system which automatically generates a condition assessment report indicating existing electrical and mechanical faults and providing energy efficiency information.

What is AMT Service?

Artesis provides AMT Service to its customers using AMT Toolkit. Artesis' field application engineers test the equipment and delivers condition assessment report on site. Condition assessment report includes energy efficiency information, existing electrical and mechanical faults, and remedies.

Do I need expertise in order to use AMT Toolkit?

No expertise is required. The toolkit uses three current sensors and three voltage sensors, making the system straightforward to install, and use without in-depth training of personnel.

Do I need to install sensors on motor or equipment?

No. AMT toolkit uses three phase voltage and current signals and these signals are obtained from motor control cabinet through current sensors and voltage cables.

What is the output of AMT Toolkit?

Artesis AMT Toolkit generates an instant condition assessment report indicating any existing electrical and mechanical faults in the system, recommended corrective actions to fix these problems and provides electrical data which can be used for energy efficiency analysis.

Faults Coverage: Loose foundation/components, Unbalance/misalignment/coupling, Transmission faults, Driven equipment faults, Bearing faults, Rotor faults, Stator/insulation faults, Voltage unbalance, Current unbalance, Internal and external electrical faults.

Calculated Parameters: RMS values for three phase voltages and currents, Frequency, Power factor, Active power, Reactive power, Total Harmonic Distortion, Harmonics up to 13th, Voltage and current unbalances.

Do I need anything else apart from the tools included in AMT Toolkit?

No. All tools needed to collect, analyze data and display the report are included within AMT Toolkit. It includes a computer with AES for AMT software installed, computer charging adapter, 4 sets (100A, 200A, 300A, 400A) split core current transformers, 6 voltage measurement cables, 3 fluke AC285 Suregrip alligator clips, 1 current measurement cable, 1 power cable, and 1 cross cable for Ethernet connection.

How long does it take to analyze a motor?

Data collection takes only 30 minutes. Once the data collection is completed, user can generate the report simply pressing a button.