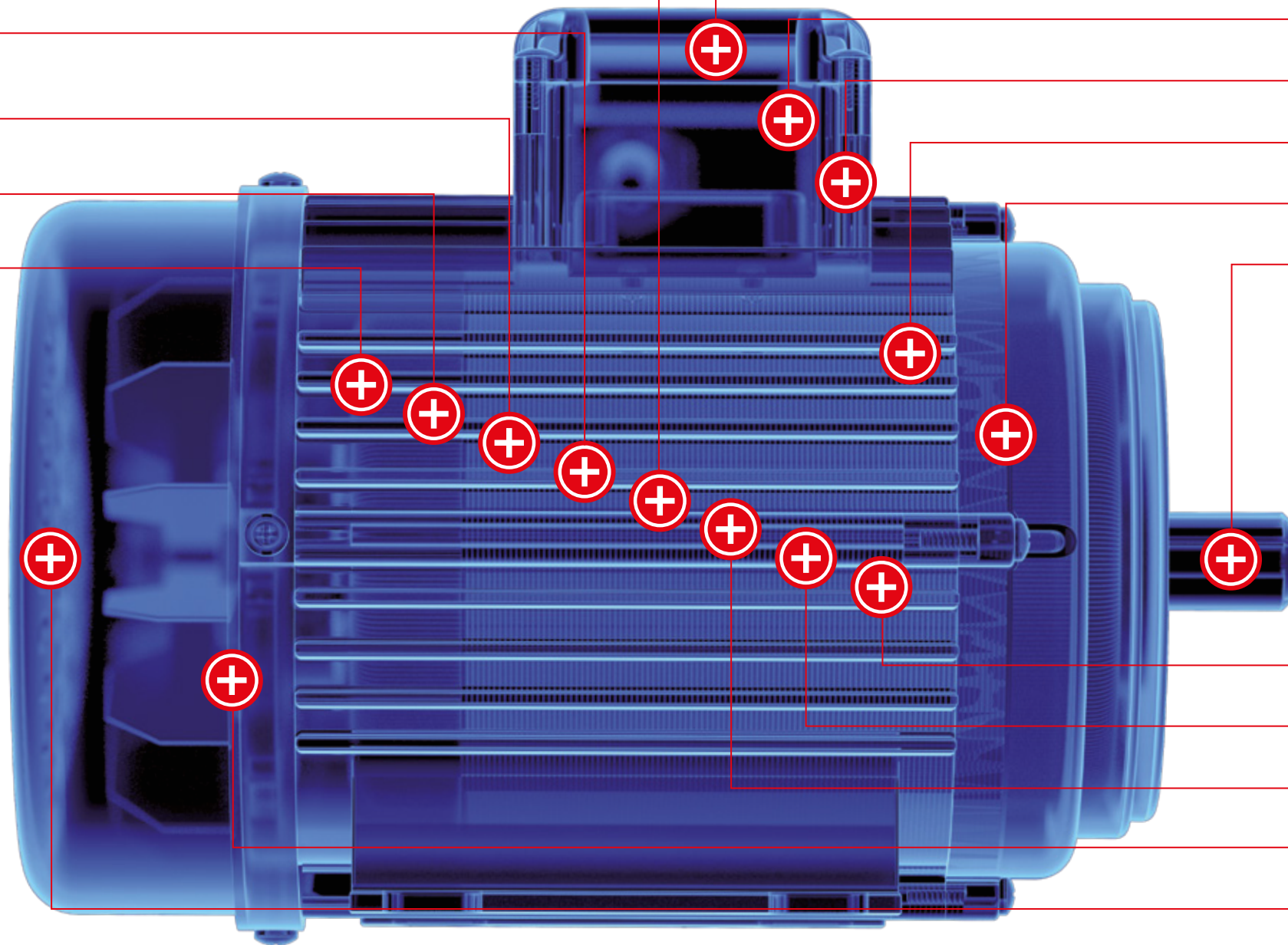


Test technology
for maintenance & repair
of motors and windings



- Phase-to-phase fault
- Partial discharge to the core
- Partial discharge within the winding
- Resistance/Inductance
- Sense of rotation/
Rotation field



- Motor terminal plugs
- Electrical performance data
- Cables/Leads
- Surge voltage
- Rotor quality
- Direction of rotation

- Insulation
- Turn-to-turn fault
- Turn-to-core fault/Insulation
- Brake
- Encoder/Angle adjustment



MTC2 and MTC2 R7

Universal winding and surge testers

The MTC2 is a top-class surge tester – no other test device offers such a comprehensive range of features. With the MTC2, you can inspect coils, stators, armatures and winding goods of all kinds using state-of-the-art technology – with no compromises regarding precision.



- > For repair, mass production, automation, laboratories
- > Perfect for motors, generators and all kinds of windings
- > Surge voltage up to 50 kV – Energy up to 125 joules
- > Partial discharge according to IEC 61394, DIN EN 60034-18-41
- > Resistance, inductance, high voltage AC/DC
- > IR (insulation resistance), PI, DAR, step voltage
- ...

VoltageAnalyzer

Intelligent high-precision probe up to 6 kV – perfected for partial discharge testing.

Take advantage of the precision of the VoltageAnalyzer – the perfect tool for measuring surge voltage signals directly at the motor winding. This is the only way to perform highly accurate surge voltage and partial discharge measurements. With advanced technical performance and ease of use, the VoltageAnalyzer is the first choice for anyone needing to meet the highest standards in electrical measurement.



- > Active probe with built-in switch-over between three phases
- > Accurate surge voltage measurement directly at the winding
- > Determination of pulse rise times
- > Exact PD voltage measurements of PDIV, RPDIV, PDEV, RPDEV
- > Perfect for standard-compliant measurements according to DIN EN 60034-18-41
- ...

MotorAnalyzer 1 and 2

Universal testers for electric motors and windings

With 13 different test methods, the MotorAnalyzer offers practically everything you need for electric motor and winding testing. The compact and robust design makes the MotorAnalyzer an ideal tool for on-site use.



- > Autotest, automatic winding analysis
- > Surge voltage up to 3 kV
- > Turn-to-turn fault detection
- > Insulation resistance, PI, DAR, HV DC, up to 6 kV
- > Resistance, inductance, capacitance, impedance
- > Neutral zone adjustment on DC motors
- > Battery powered
- > Independent of mains power supply due to rechargeable battery
- ...

EncoderAnalyzer

Testing and adjustment of encoders and resolvers

The EncoderAnalyzer enables encoder testing without the need for specialized know-how. It supplies the rotary transmitter with voltage, measures all signals and automatically evaluates them.



- > Automatic testing of all encoder signals, e.g.,
 - Number of pulses, duty cycle, signal voltage level
 - 90° phase shift, inverted signals, ...
- > Built-in power supply for encoder and resolver
- > Testing of synchronous motors
 - BEMF measurement
 - Encoder offset angle adjustment
- > Data interfaces to absolute value encoders
- ...

Dynamic-MotorAnalyzer

Troubleshooting and online monitoring of motors and generators

The Dynamic-MotorAnalyzer tests motors and generators during operation and provides, among other things, overall condition and performance data about the machine, load, input power, and much more.



- > Measurements on the running motor – even for dynamometers
- > For mains and VFD operation
- > For all modern tests, e.g., voltage, current, power, harmonics, ...
- > Unique multifunctional oscilloscope
- > Unique Smart-FFT for broken rotor bar analysis
- > Data recorder for real-time measurement data with later analysis
- > Trend analysis for predictive maintenance
- ...

High voltage test devices

From 3 mA to 10 A AC/DC
From 1 kV to 100 kV AC/DC

As specialists in high-voltage testing technology, we offer test devices and test equipment with test voltages and test currents for virtually all applications.



- > Manual and automatic tests
- > Adjustable voltage profiles and test sequences
- > Two-channel safety inputs
- > Interfaces to PC or PLC
- > Test cages and test cabins
- ...

